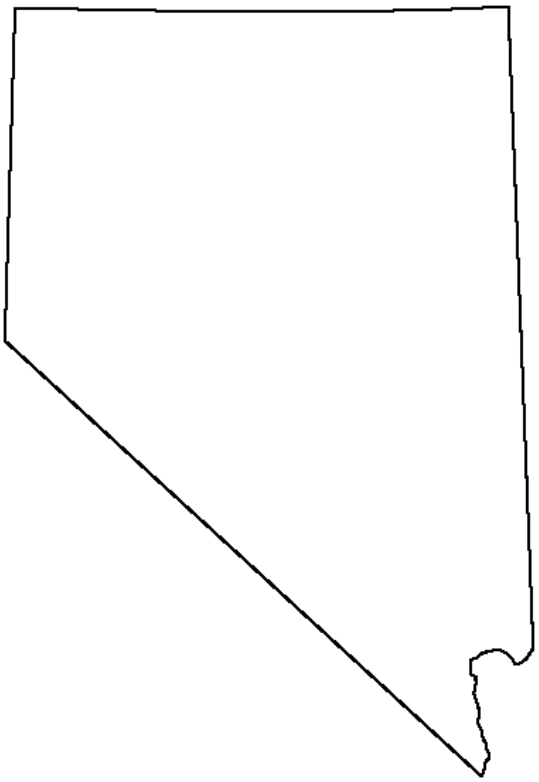
U.S. Department of the Interior
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Water Resources Data
Nevada
Water Year 2002

By Steven N. Berris, E. James Crompton, Joseph D. Joyner, and Roslyn Ryan

Water-Data Report NV-02-1



**Prepared in cooperation with the State of Nevada
and with other agencies**

UNITED STATES DEPARTMENT OF THE INTERIOR

GALE A. NORTON, Secretary

U.S. GEOLOGICAL SURVEY

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Carson City, Nevada 89706

2003

PREFACE

This report for Nevada is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-water and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streams, canals, drains and springs, lakes and reservoirs, and observation wells provide the hydrologic information needed by Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by personnel of the U.S. Geological Survey who collected, analyzed, verified, and organized the data and who typed, edited, and assembled the report. The Nevada Data Management Unit had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines.

In addition to the authors, U.S. Geological Survey personnel in Nevada who contributed significantly to the collection and preparation of the data in this report were: Kip A. Allander, David L. Berger, Laurie J. Bonner, Robert E. Bostic, Peggy E. Elliott, Larry P. Etchemendy, Larry S. Feinson, Joseph M. Fenelon, Kerry T. Garcia, Gary Gortsema, Clifford Z. Jones, Randy S. Kyes, Richard A. LaCamera, Randell J. Laczniak, Michael S. Lico, Glenn L. Locke, Douglas K. Maurer, Rose L. Medina, Michael T. Moreo, Rod H. Munson, Walter E. Nylund, Gary L. Otto, Michael T. Pavelko, Robert N. Pennington, Russell W. Plume, Alan M. Preissler, Dave E. Prudic, Steve R. Reiner, George A. Roach, Timothy G. Rowe, Ron Spaulding, Donald H. Schaefer, Robert J. Sexton, Emil L. Stockton, J. Christopher Stone, James R. Swartwood, Daron J. Tanko, Carl E. Thodal, Karen A. Thomas, Sonya L. Vasquez, Craig L. Westenburg, Jon W. Wilson, and David B. Wood.

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Water resources data published herein for the 2002 water year comprise the following records:

- Water discharge for 175 gaging stations on streams, canals and drains.
- Discharge for 95 peak-flow stations and miscellaneous sites, and 16 springs.
- Stage and contents for 20 ponds, lakes and reservoirs.
- Water-quality data for 120 stream, lake, canal, spring, and drain sites, and 174 wells.
- Water levels for 128 primary/continuous record wells, and 818 secondary observation wells.
- Water withdrawals for 11 wells
- Precipitation totals for 38 stations.

Additional water-data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Information System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

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CONTENTS

Page

PREFACE iii

LIST OF SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME viii

LIST OF GROUND-WATER WELLS, BY VALLEY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME xii

LIST OF DISCONTINUED SURFACE-WATER DISCHARGE STATIONS xiii

LIST OF DISCONTINUED SURFACE-WATER QUALITY STATIONS xvii

LIST OF DISCONTINUED SURFACE-WATER QUALITY CONTINUOUS RECORD STATIONS xxv

INTRODUCTION 1

COOPERATION 1

SUMMARY OF HYDROLOGIC CONDITIONS 2
- Surface water 2
- Water quality 5
- Ground water 6
- Water use 11

SPECIAL NETWORKS AND PROJECTS 16

EXPLANATION OF THE RECORDS 17
- Station identification numbers 17
  - Downstream order system 17
  - Latitude-longitude system 18
  - Local site numbers 18
- Records of stage and water discharge 18
  - Data collection and computation 18
  - Data presentation 19
    - Station manuscript 19
    - Data table of daily mean values 19
    - Statistics of monthly mean data 20
    - Summary statistics 20
  - Identifying estimated daily discharge 21
  - Accuracy of the records 21
  - Other records available 21
- Records of surface-water quality 21
  - Classification of records 21
  - Arrangement of records 21
  - On-site measurements and sample collection 21
  - Specific conductance 22
  - Water temperature 22
  - Laboratory measurements 22
  - Long-term method detection levels and laboratory reporting levels 22
  - Sediment 22
  - Data presentation 23
  - Remark codes 23
- Records of ground-water levels 23
  - Data collection and computation 23
  - Data presentation 24
- Records of ground-water quality 24
  - Data collection and computation 24
  - Data presentation 24
- Water-quality control data 25
  - Blank samples 25
  - Reference samples 25
  - Replicate samples 25
  - Spike samples 25

ACCESS TO USGS WATER DATA 25
DEFINITION OF TERMS 26
REFERENCES CITED 37

CONTENTS--Continued

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS 38
SURFACE-WATER RECORDS 49
Surface-water stations 52
Discharge at partial-record stations and miscellaneous sites 418
Crest-stage partial-record stations 418
Miscellaneous sites 422
Miscellaneous quality of surface-water, Upper Truckee River and Trout Creek 425
GROUND-WATER AND PROJECT RECORDS 426
Hydrographic areas, State of Nevada 428
Ground-water levels, primary observation wells 430
Ground-water levels, secondary observation wells 440
Special Networks and Projects 447
Amargosa Valley 541
Aquifer Vulnerability Project 447
Carbonate Rock 542
Carson River Basin 450
Cold Creek Monitoring Project 469
Dayton Valley 455
Douglas County 460
Fallon Basalt Aquifer Monitoring 464
Humboldt River Basin 467
Lake Tahoe Basin 483
Las Vegas Subsidence Study 549
Las Vegas Valley 552
National Water-Quality Assessment 498
Newlands Shallow Aquifer Monitoring 526
Nevada Test Site and Adjacent Areas Monitoring Project 571
Trout Creek Watershed Project 492
Ruby Valley 537
Yucca Mountain Ground-Water Monitoring 584

INDEX 592

ILLUSTRATIONS

		Page
Figures 1-5.	Graphs showing:	
	1. Comparison of discharge during water year 2002 with the long-term mean discharge at two representative gaging stations	3
	2. Water-surface elevation and dissolved-solids concentrations at Walker and Pyramid Lakes	4
	3. Dissolved-solids concentrations in the Colorado River below Hoover Dam (station 09421500) for water years 1971-2002	5
	4. Number of new wells drilled based on number submitted to the Nevada State Engineer's Office during water years 1971-2002	7
5.	Map showing distribution, by county, of the number and use of wells drilled during water year 2002	8
6.	Graph showing depths of wells drilled during 2002 water year for domestic, irrigation, industrial/public-supply, and other uses	9
7.	Map showing long-term water-level depths below land surface in six selected observation wells	10
8-10.	Graphs showing:	
	8. Monthly water withdrawals for public supply in the Las Vegas, Reno, and Carson City areas, 1993-2002	13
	9. Total ground-water withdrawals from wells at the Nevada Test Site during water years 1984-2002	14
	10. Total Ground-water withdrawals from production wells at the Nevada Test Site during water year 2002	15
11-18.	Maps showing data sites listed in this report:	
	11. Gaging stations	41
	12. Gaging stations, Southeastern Nevada	42
	13. Gaging stations, West-central Nevada	43
	14. Gaging stations, Upper Humboldt River	44
	15. Gaging stations, Lake Tahoe Basin	45
	16. Surface-water quality stations	46
	17. Surface-water quality stations, West-central Nevada	47
	18. Surface-water quality stations, Lake Tahoe Basin	48
19-27.	Schematic diagram of flow system and gaging stations in:	
	19. Colorado River Basin	51
	20. Amargosa Valley	134
	21. Walker Lake Basin	137
	22. Carson River Basin (upstream of station 10311400)	166
	23. Carson River Basin (downstream of station 10311400)	198
	24. Humboldt River Basin	218
	25. Truckee River Basin (upstream of station 10346000)	251
	26. Truckee River Basin (downstream of station 10346000)	366
	27. Snake River Basin	409
28-39.	Maps showing data sites listed in this report	
	28. Crest-stage partial-record station	417
	29. Surface-water quality stations, Upper Truckee Basin	424
	30. Ground-water sites	427
	31. State of Nevada Hydrographic Areas	430
	32. Ground-water sites, West-central Nevada	439
	33. Ground-water sites, Western Churchill County	452
	35. High-elevation precipitation sites	456
	34. Ground-water sites, Western Nevada	454
	36. Ground-water sites, Douglas County	459
	37. Ground-water sites, Lake Tahoe Basin	468
	38. Map sketch of Trout Creek area (A) above Pioneer Trail and (B) at Martin Avenue, California	491
	39. Ground-water sites, Truckee Meadows	497
	40. Ground-water sites, Southern Nevada	540
	41. Observation wells and water-withdrawal, ground-water quality, precipitation, and spring sites at or near the Nevada Test Site, southern Nevada	570

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letters after station name designate type of data: (a) air temerature, (d) discharge, (p) precipitation, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment, (e) elevation, gage heights, or contents.]

	Station number	Page
COLORADO RIVER BASIN [PART 09]		
Colorado River:		
VIRGIN RIVER BASIN		
Virgin River at The Narrows near Littlefield, AZ (d,c,t)	09413700	52
Beaver Dam Wash at Beaver Dam, AZ (d)	09414900	54
Virgin River at Littlefield, AZ (d,c,m,t,s)	09415000	55
Preston Big Spring near Preston, NV (d)	09415510	59
White River near Lund, NV (d)	09415550	60
Crystal Spring nr Hiko, NV (d)	09415590	61
Ash Springs Creek below Highway 93 at Ash Springs, NV (d)	09415640	62
Muddy Spring at L.D.S. Farm near Moapa, NV (d)	09415900	63
Pederson East Spring near Moapa, NV (d)	09415908	64
Pederson Spring near Moapa, NV (d)	09415910	65
Warm Springs West near Moapa, NV (d)	09415920	66
Warm Springs confluence at Iverson Flume near Moapa, NV (d)	09415927	67
White River (head of Muddy River		
Muddy River near Moapa, NV (d,p)	09416000	68
Meadow Valley Wash:		
Meadow Valley Wash near Caliente, NV (d)	09418500	69
Meadow Valley Wash near Rox, NV (d)	09418700	70
Muddy River near Glendale, NV (d)	09419000	71
Muddy River at Lewis Avenue at Overton, NV (d)	09419507	72
Blue Point Springs near Valley of Fire State Park, NV (d)	09419547	73
Rogers Spring near Overton Beach, NV (d)	09419550	74
LAS VEGAS VALLEY		
Las Vegas Wash:		
Corn Creek Spring at National Fish and Wildlife Headquarters, NV (d)	09419625	75
Gowan Detention Basin Outlet near North Las Vegas, NV (d,p)	094196497	76
Las Vegas Creek at Meadows Detention Basin at Las Vegas, NV (d,p)	094196557	77
Las Vegas Wash near Sahara Avenue near Las Vegas, NV (d,p)	09419658	78
Sloan Channel Tributary at Las Vegas Boulevard near North Las Vegas, NV (d,p)	09419659	79
Sloan Channel at Charleston Boulevard near Las Vegas, NV (d,p)	09419665	80
Flamingo Wash at Decatur Boulevard at Las Vegas, NV (d,p)	09419674	81
Flamingo Wash at Nellis Boulevard near Las Vegas, NV (d,p)	094196781	82
Las Vegas Wash below Flamingo Wash Confluence near Las Vegas, NV (d,c,p,t,s)	094196783	83
Las Vegas Wash at Vegas Valley Drive near Las Vegas, NV (d,p)	094196784	106
Las Vegas Wasteway near East Las Vegas, NV (d)	09419679	107
Duck Creek at Broadbent Boulevard at East Las Vegas, NV (d)	09419696	108
Las Vegas Wash at Pabco Road near Henderson, NV (c,m,d,t,s)	09419700	109
C-1 Channel near Warm Springs Road near Henderson, NV (d,p)	09419740	112
Las Vegas Wash Overflow at Lake Las Vegas Inlet, NV (d)	09419756	113
Las Vegas Wash below Lake Las Vegas below Henderson, NV (d)	09419790	114
Las Vegas Wash near Boulder City, NV (c,m,d,t,s)	09419800	115
Lake Mead at Hoover Dam, AZ-NV (e)	09421000	119
Colorado River below Hoover Dam, AZ-NV (d,c,t,s)	09421500	120
Lake Mohave at Davis Dam, AZ-NV (e)	09422500	125
Colorado River below Davis Dam, AZ-NV (d)	09423000	126
THE GREAT BASIN [PART 10]		
SPRING VALLEY		
Lehman Creek near Ely, NV (d)	10243260	127
Cleve Creek near Ely, NV (d)	10243700	128
STEPTOE VALLEY		
Steptoe Creek near Ely, NV (d)	10244950	129
MONITOR VALLEY-DIAMOND VALLEY SYSTEM		
Pine Creek near Belmont, NV (d)	10245900	130
Mosquito Creek near Belmont, NV (d)	10245910	131
BIG SMOKY VALLEY (NORTHERN PART)		
Kingston Creek below Cougar Canyon near Austin, NV (d)	10249280	132
South Twin River near Round Mountain, NV (d)	10249300	133
UPPER AMARGOSA		
Amargosa River at Beatty, NV (d)	10251217	135
Amargosa River at Tecopa, CA (d)	10251300	136
WALKER LAKE BASIN		
Walker Lake near Hawthorne, NV (e)	10288500	138
Virginia Creek (head of Walker River):		
Upper Twin Lake near Bridgeport, CA (e)	10290300	139
Lower Twin Lake near Bridgeport, CA (e)	10290400	140
Robinson Creek at Twin Lakes Outlet near Bridgeport, CA (d)	10290500	141

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

	Station number	Page
THE GREAT BASIN--Continued		
Buckeye Creek near Bridgeport, CA (d)	10291500	142
East Walker River (continuation of Virginia Creek):		
Bridgeport Reservoir near Bridgeport, CA (e)	10292500	143
East Walker River near Bridgeport, CA (d)	10293000	144
East Walker River above Strosnider Ditch, near Mason, NV (d)	10293500	145
West Walker River:		
Little Walker River near Bridgeport, CA (d)	10295500	146
West Walker River below Little Walker River near Coleville, CA (d)	10296000	147
West Walker River near Coleville, CA (d)	10296500	148
Topaz Lake near Topaz, CA (e)	10297000	149
West Walker River at Hoye Bridge near Wellington, NV (d)	10297500	150
West Walker River near Hudson, NV (d)	10300000	151
Walker River near Wabuska, NV (d,c,t)	10301500	152
Walker River above Weber Reservoir near Schurz, NV (d)	10301600	157
Weber Reservoir near Schurz, NV (e)	10301700	158
Canal No 2 above Little Dam near Schurz, NV (d)	10301742	159
Canal No 1 below Little Dam near Schurz, NV (d)	10301755	160
Walker River at Lateral 2-A Siphon near Schurz, NV (d,c,t)	10302002	161
HUMBOLDT-CARSON SINK BASIN		
CARSON RIVER BASIN		
East Fork Carson River:		
East Fork Carson River below Markleeville Creek near Markleeville, CA (d)	10308200	167
Leviathan Creek above Leviathan Mine near Markleeville, CA (d)	10308783	168
Leviathan Mine Adit Drain near Markleeville, CA (d)	10308784	169
Leviathan Mine Pit Drain near Markleeville, CA (d)	10308785	170
Leviathan Mine Pond 1 near Markleeville, CA (d)	103087853	171
Leviathan Creek Channel Underdrain near Markleeville, CA (d)	103087885	172
Leviathan Mine Pond 4 near Markleeville, CA (d)	103087887	173
Leviathan Creek above Aspen Creek near Markleeville, CA (d)	10308789	174
Aspen Creek Overburden Seep near Markleeville, CA (d)	103087892	175
Bryant Creek below Confluence near Markleeville, CA (d)	10308794	176
Bryant Creek near Gardnerville, NV (d)	10308800	177
East Fork Carson River near Gardnerville, NV (c,d)	10309000	178
East Fork Carson River near Dresslerville, NV(d,c,t,s)	10309010	182
West Fork Carson River:		
West Fork Carson River at Woodfords, CA (d)	10310000	185
Daggett Creek near Genoa, NV (d)	10310400	186
Carson River near Genoa, NV (d)	10310407	187
Ambrosetti Pond near Genoa, NV (e)	10310447	188
Ambrosetti Pond outlet near Genoa, NV (d)	10310448	189
Clear Creek near Carson City, NV (d)	10310500	190
Carson River near Carson City, NV (d)	10311000	191
North Fork Kings Canyon Diversion near Carson City, NV (d)	10311089	192
North Fork Kings Canyon Creek near Carson City, NV (d)	10311090	193
Kings Canyon Creek near Carson City, NV (d)	10311100	194
Ash Canyon Creek near Carson City, NV (d)	10311200	195
Eagle Valley Creek at Carson City, NV (d)	10311300	196
Carson River at Deer Run Road near Carson City, NV (d)	10311400	197
Carson River near Fort Churchill, NV (d)	10312000	199
Lahontan Reservoir near Fallon, NV (e)	10312100	200
Carson River below Lahontan Reservoir near Fallon, NV (d)	10312150	201
Stillwater Point Reservoir Diversion Canal near Fallon, NV (d,c,t)	10312210	202
S-Line Diversion Canal near Stillwater, NV (d,c,t)	1031221902	207
Carson River at Tarzyn Road near Fallon, NV (d)	10312275	212
Paiute Drain below TJ Drain near Stillwater, NV (d,c,t)	10312277	213
HUMBOLDT RIVER BASIN		
East Fork Humboldt River:		
Marys River below Orange Bridge near Charleston, NV (d,t)	10313400	219
Marys River above Hot Springs Creek near Deeth, NV (d)	10315500	222
Marys River below Twin Buttes near Deeth, NV (d,t)	10315600	223
Lamoille Creek near Lamoille, NV (d)	10316500	226
North Fork Humboldt River near Halleck, NV, NV (d)	10317500	227
Humboldt River near Elko (d)	10318500	228
South Fork Humboldt River above Tenmile Creek near Elko, NV (d)	10319900	229
South Fork Humboldt River above Dixie Creek near Elko, NV (d)	10320000	230
Humboldt River near Carlin, NV (d)	10321000	231
Susie Creek at Carlin, NV (d)	10321590	232
Simon Creek at Highway 766 near Carlin, NV (d)	10321925	233
Maggie Creek above Maggie Creek Canyon near Carlin, NV (d)	10321940	234
Maggie Creek at Maggie Creek Canyon near Carlin, NV (d)	10321950	235
Maggie Creek at Carlin, NV (d)	10322000	236
Marys Creek at Carlin, NV (d)	10322150	237

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

	Station number	Page
THE GREAT BASIN--Continued		
Humboldt River at Palisade, NV (d)	10322500	238
Humboldt River at Old US 40 Bridge at Dunphy, NV (d)	10323425	239
Rock Creek near Battle Mountain, NV (d)	10324500	240
Boulder Creek near Dunphy, NV (d)	10324700	241
Humboldt River at Battle Mountain, NV (d)	10325000	242
Humboldt River at Comus, NV (d)	10327500	243
Little Humboldt River:		
Little Humboldt River near Paradise Valley, NV (d)	10329000	244
Martin Creek near Paradise Valley, NV (d)	10329500	246
Humboldt River near Imlay, NV (d)	10333000	247
Rye Patch Reservoir near Rye Patch, NV (e)	10334500	248
Humboldt River near Rye Patch, NV (d)	10335000	249
PYRAMID AND WINNEMUCCA LAKES BASIN		
Pyramid Lake near Nixon, NV (e)	10336500	252
Lake Tahoe:		
Upper Truckee River at South Upper Truckee Road near Meyers, CA (d,c,t,s)	10336580	253
Upper Truckee River at Highway 50 above Meyers, CA (d,c,t,s)	103366092	257
Upper Truckee River at South Lake Tahoe, CA (d,c,t,s)	10336610	261
General Creek near Meeks Bay, CA (d,c,t,s)	10336645	265
Blackwood Creek near Tahoe City, CA (d,c,t,s)	10336660	268
Ward Creek below confluence near Tahoe City, CA (d,c,t,s)	10336674	271
Ward Creek at Stanford Rock Trail Crossing near Tahoe City, CA (d,c,t,s)	10336675	274
Ward Creek at State Highway 89 near Tahoe Pines, CA (d,c,t,s)	10336676	275
First Creek near Crystal Bay, NV (c,t,s)	10336688	278
Wood Creek at mouth near Crystal Bay, NV (c,t,s)	10336694	279
Rosewood Creek below Highway 28 at Incline Village, NV(c,t,s)	103366974	280
Third Creek near Crystal Bay, NV (d,c,t,s)	10336698	281
Incline Creek above Tyrol Village near Incline Village, NV (d,c,t,s)	103366993	284
Incline Creek at Highway 28 at Incline Village, NV (d,c,t,s)	103366995	287
Incline Creek Tributary at Country Club Drive near Incline Village, NV (c,t,s)	103366997	290
Incline Creek near Crystal Bay, NV (d,c,t,s)	10336700	291
Marlette Lake near Carson City, NV (e)	10336710	294
Marlette Creek near Carson City, NV (d)	10336715	295
Glenbrook Creek at Glenbrook, NV (d,c,t,s)	10336730	296
North Logan House Creek at Highway 50 near Glenbrook, NV (c,t,s)	10336735	299
Logan House Creek near Glenbrook, NV (d,c,t,s)	10336740	300
Burke Creek above mouth nr Stateline, NV(c,t,s)	10336748	302
Edgewood Creek below South Benjamin Drive near Daggett Pass, NV (c,t,s)	10336750	303
Edgewood Creek at Palisades Drive near Kingsbury, NV (d,c,t,s)	103367585	304
Eagle Rock Creek near Stateline, NV (c,d,t,s)	103367592	305
Edgewood Creek at Stateline, NV (d,c,t,s)	10336760	307
Edgewood Creek at Lake Tahoe near Stateline, NV (c,t,s)	10336765	310
Trout Creek at U.S. Forest Service Road 12N01 near Meyers, CA (d,c,t,s)	10336770	311
Trout Creek at Pioneer Trail near South Lake Tahoe, CA (d,c,t,s)	10336775	314
Cold Creek at mouth, CA (t)	10336779	317
Trout Creek near Tahoe Valley, CA (c,d,s,t)	10336780	319
Trout Creek at South Lake Tahoe, CA (c,s,t)	10336790	323
Lake Tahoe at Tahoe City, CA (e)	10337000	326
Truckee River at Tahoe City, CA (a,d,c,p,t,s)	10337500	327
Truckee River near Truckee, CA (d)	10338000	331
Donner Lake near Truckee, CA (e,p)	10338400	332
Donner Creek at Donner Lake near Truckee, CA (d)	10338500	334
Donner Creek at Highway 89 near Truckee, CA (d)	10338700	335
Martis Creek near Truckee, CA (d,t)	10339400	336
Prosser Creek Reservoir near Truckee, CA (e)	10340300	340
Prosser Creek below Prosser Creek Dam near Truckee, CA (d)	10340500	341
Little Truckee River:		
Independence Lake near Truckee, CA (e)	10342900	343
Independence Creek near Truckee, CA (d)	10343000	344

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME--Continued

	Station number	Page
THE GREAT BASIN--Continued		
Sagehen Creek near Truckee, CA (c,d,t)	10343500	345
Stampede Reservoir near Truckee, CA (e)	10344300	350
Little Truckee River above Boca Reservoir near Truckee, CA (d)	10344400	351
Boca Reservoir near Truckee, CA (e)	10344490	353
Little Truckee River below Boca Dam near Truckee, CA (d)	10344500	354
Truckee River at Boca Bridge near Truckee, CA (d)	10344505	356
Gray Creek near Floriston, CA (d,c,t)	10345490	357
Truckee River at Farad, CA (d,p)	10346000	364
Truckee River near Mogul, NV (d,p)	10347460	367
Truckee River at Reno, NV (d)	10348000	369
Truckee River near Sparks, NV (d,c,t)	10348200	370
North Truckee Drain at Spanish Springs Road near Sparks, NV(d,p)	10348245	375
North Truckee Drain at Kleppe Lane near Sparks, NV (d)	10348300	377
Franktown Creek (head of Steamboat Creek) near Carson City, NV (d)	10348460	378
Steamboat Creek:		
Washoe Lake near Carson City, NV (e)	10348700	379
Little Washoe Lake near Steamboat, NV (e)	10348800	380
Galena Creek at Galena State Park, NV (d)	10348850	381
Steamboat Creek at Steamboat, NV (d)	10349300	382
Steamboat Creek at Geiger Grade near Steamboat, NV(d)	10349495	383
Steamboat Creek at Short Lane at Reno, NV(d)	10349849	384
Steamboat Creek at Cleanwater Way near Reno, NV (d)	10349980	385
Truckee River at Vista, NV (d)	10350000	386
Truckee River near Tracy, NV (d)	10350340	387
Truckee River at Clark, NV (c,t,s)	10350500	388
Truckee Canal near Wadsworth, NV (d,t)	10351300	395
Truckee Canal near Hazen, NV (d)	10351400	396
Truckee River below Derby Dam near Wadsworth, NV (d)	10351600	397
Truckee River at Wadsworth, NV (d)	10351650	400
Truckee River near Nixon, NV (d,c,t)	10351700	401
BLACK ROCK DESERT BASIN		
Quinn River:		
McDermitt Creek near McDermitt, NV (d)	10352500	406
SUMMIT LAKE VALLEY		
Mahogany Creek near Summit Lake, NV (d)	10353750	407
SMOKE CREEK DESERT		
Smoke Creek below Reservoir near Smoke Creek, NV (d)	10353800	408
SNAKE RIVER BASIN [PART 13]		
SALMON FALLS CREEK BASIN		
Salmon Falls Creek near San Jacinto, NV (d)	13105000	410
BRUNEAU RIVER BASIN		
Bruneau River at Rowland, NV (d,s)	13161500	411
Jarbidge River below Jarbidge, NV (d,s)	13162225	413
OWYHEE RIVER BASIN		
Owyhee River near Gold Creek, NV (d)	13174500	415
Owyhee River near Mountain City, NV (d)	13175100	416

PRIMARY GROUND-WATER WELLS, BY VALLEY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

LONG TERM PRIMARY GROUND-WATER WELLS

Page

DESERT VALLEY
Site 404901118223601 Local number 31 N34 E22 16ABDC1 430
PARADISE VALLEY
Site 412910117321001 Local number 69 N42 E39 25CAC1 431
CARSON DESERT
Site 392825118470501 Local number 101 N19 E28 36AABC1 453
PAHRUMP VALLEY
Site 360836115531701 Local number 162 S21 E54 10AAC1 568
STEPTOE VALLEY
Site 393310114475001 Local number 179 N20 E64 32C2..... 433
LAS VEGAS VALLEY
Site 360349115100001 Local number 212 S22 E61 04BCB1 557

RECORDING GROUND-WATER WELLS

COAL VALLEY
Site 380758115504601 Local number 171 N03 E59 10BD1..... 544
STEPTOE VALLEY
Site 385521114503601 Local number 179 N12 E63 12AB1..... 432
COYOTE SPRING VALLEY
Site 364743114533101 Local number 210 S13 E63 23DDDC1..... 545
HIDDEN VALLEY
Site 363308114553001 Local number 217 S16 E63 09DDAB1..... 434
LAS VEGAS VALLEY
Site 361704115121901 Local number 212 S19 E61 19BC1 552
Site 361626115090701 Local number 212 S19 E61 21DDB1 553
Site 361456115111001 Local number 212 S19 E61 32CC1 554
Site 361232115061001 Local number 212 S20 E61 13ABDB1 555
Site 361400115040901 Local number 212 S20 E62 05CAAA1 556
Site 361410115142601 Local number 212 S20 E60 02CCBB1 549
Site 361410115142602 Local number 212 S20 E60 02CCBB2 550
Site 361410115142603 Local number 212 S20 E60 02CCBB3 551
UPPER MOAPA VALLEY
Site 364650114432001 Local number 219 S13 E65 28BDAC1..... 569

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record surface-water discharge stations (gaging stations) in Nevada and parts of California have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations.

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Mesquite Canal near Mesquite, NV	09415060	--	1951-55
Bunkerville Canal near Bunkerville, NV	09415080	--	1951-55
Virgin River at Riverside, NV	09415190	5,890	1971-74, 1993-96
Virgin River above Halfway Wash near Riverside, NV	09415230	5,980	1978, 1980-83, 1985
White River near Preston, NV	09415500	--	1914
Water Canyon Creek near Preston, NV	09415515	11.0	1983-87, 1990-94
Pahranagat Valley Trib near Hiko, NV	09415600	17.0	1964-77
White River above Upper Pahranagat Lake near Alamo, NV	09415700	2,630	1990-94
Pahranagat Wash near Moapa, NV	09415850	252	1988-93
Muddy River Power Diversion near Moapa, NV	09415950	--	1978-85
Muddy River above Moapa Indian Res near Moapa, NV	09416500	3,890	1914-18
Muddy River at Rr Pump Plant near Moapa, NV	09417000	3,900	1915-17
Muddy River at Weiser Ranch near Moapa, NV	09417400	4,360	1916-17
Meadow Valley Wash at Eagle Canyon, near Ursine, NV	09417500	293	1962-75
Meadow Valley Wash near Panaca, NV	09418000	450	1945-50
Mathews Canyon Wash near Caliente, NV	09418200	34.0	1958-84
Pine Canyon Wash near Caliente, NV	09418300	45.0	1958-84
Muddy River near Overton, NV	09419500	8,180	1913-16, 1948-52
Muddy River above Lake Mead near Overton, NV	09419515	8,310	1979-93
Lee Canyon near Charleston Park, NV	09419610	9.20	1963-94
Las Vegas Wash above Detention Basin near North Las Vegas, NV	09419648	--	1988-93
North Las Vegas Detention Basin Outlet at Craig Road near North Las Vegas, NV	09419649	1,920	1992-99
Las Vegas Wash at North Las Vegas, NV	09419650	1,300	1962-78
Las Vegas Wash at Lake Mead Drive near North Las Vegas, NV	09419655	--	1988-96
Las Vegas Creek at Lamb Blvd near Las Vegas, NV	09419656	46.3	1988-92
Flamingo Wash Detention Basin Outlet at Las Vegas, NV	09419672	--	1992-96
Flamingo Wash near Torrey Pines Drive near Las Vegas, NV	09419673	93.6	1988-99
Tropicana Wash at Swenson Street Bridge at Las Vegas, NV	09419676	--	1989-96
Flamingo Wash at Maryland Parkway at Las Vegas, NV	09419677	106	1970-78
Flamingo Wash at Eastern Avenue near Las Vegas, NV	094196775	108	1990-99
Duck Creek at Eastern Avenue at Las Vegas, NV	09419688	--	1988-96
Pittman Wash at Wigmam Parkway near Henderson, NV	09419695	68.31	1989-99
Las Vegas Wash above Three Kids Wash below Henderson, NV	09419753	2,180	1988-98
Thousand Springs Creek near Wilkins, NV	10172907	--	1985-90
Thousand Springs Creek near Shores, NV	1017290880	--	1985-87
Thousand Springs Creek Blw Toano Draw near Shores, NV	1017290885	--	1987-89
Thousand Springs Creek near Tacoma, NV	10172910	--	1911-14
Thousand Springs Creek near Montello, NV	10172914	--	1985-90
Snake Creek near Baker, NV	10243230	30.0	1913-15, 1916-17
Baker Creek at Narrows near Baker, NV	10243240	16.4	1947-55, 1993-97
Baker Creek near Baker, NV	10243250	10.0	1913-16
Franklin River near Arthur, NV	10244720	10.3	1964-83
Overland Creek near Ruby Valley, NV	10244745	9.00	1960-67, 1977-82
Duck Creek near Cherry Creek, NV	10245005	--	1986-88
Currie Spring near Currie, NV	10245030	--	1983-86
Goshute Creek near Cherry Creek, NV	10245040	9.67	1983-86
Illipah Creek near Hamilton, NV	10245445	31.5	1983-87, 1990-94
Newark Valley Trib near Hamilton, NV	10245800	157	1962-86
Stoneberger Creek near Austin, NV	10245925	35.6	1978-97
Big Spring near Duckwater, NV	10246835	--	1970-71
Little Currant Creek near Currant, NV	10246846	12.9	1964-81, 1983-86, 1990-94
Currant Creek at Ranger Station near Currant, NV	10246850	--	1913
Currant Creek (at Cazier's Ranch) near Currant, NV	10246860	--	1913-17, 1923
Big Warm Spring near Duckwater, NV	10246890	--	1915-16
Duckwater Creek near Duckwater, NV	10246900	--	1915-17
Upper Hot Creek Ranch Springs near Warm Springs, NV	10246910	0.07	1967-72
Hot Creek Ranch Springs near Warm Springs, NV	10246920	--	1967-73
Six Mile Creek near Warm Springs, NV	10246930	19	1967-68, 1984-91
Moores Station Springs at Moores Station, NV	10246940	136	1967-73
Warm Springs at Warm Springs, NV	10246950	--	1967-73

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Hot Creek near Warm Springs, NV	10247050	1,030	1967-73
Big Creek near Warm Springs, NV	10247200	12.0	1991-94
Penoyer Valley Trib near Tempiute, NV	10247860	1.48	1966-77
Eldorado Valley Trib near Nelson, NV	10248510	1.41	1966-77
Willow Creek near Warm Springs, NV	10249190	16.4	1978-92
McClusky Creek near Austin, NV	10249200	11.6	1979, 1981-82
Campbell Creek Trib near Eastgate, NV	10249411	2.14	1964-82
Chiatovich Creek near Dyer, NV	10249900	37.3	1961-82
Beatty Wash near Beatty, NV	10251215	94.6	1989-95
Amargosa River at Highway 95 below Beatty, NV	10251218	470	1963-68, 1991-95
Amargosa River near Beatty, NV	10251220	470	1964-68
Fortymile Wash above East Cat Canyon, Nevada Test Site, NV	10251242	40.8	1991-95
East Cat Canyon Wash at Fortymile Wash, Nevada Test Site, NV	10251243	13.3	1991-95
Unnamed Tributary to Stockade Wash near Rattlesnake Ridge Nevada Test Site, NV	10251248	3.9	1984-95
Stockade Wash near Fortymile Wash, Nevada Test Site, NV	10251249	68.2	1991-95
Fortymile Wash at Narrows, Nevada Test Site, NV	10251250	258	1983-97
Pagany Wash near the Prow, Nevada Test Site, NV	102512531	0.47	1994-95
Pagany Wash #1 near Well UZ-4, Nevada Test Site, NV	102512533	0.82	1992-95
Drillhole Wash above Well UZ-1, Nevada Test Site, NV	102512535	0.68	1994-95
Wren Wash at Yucca Mountain, Nevada Test Site, NV	1025125356	0.23	1994-95
Split Wash below Quac Canyon Wash, Nevada Test Site, NV	102512537	0.33	1993-95
Split Wash at Antler Ridge, Nevada Test Site, NV	1025125372	2.35	1993-95
Fortymile Wash near Well J-13, Nevada Test Site, NV	10251255	304	1983-97
Amargosa River at Highway 127, near CA-NV State Line	10251259	1,542	1993-95
Carson Slough at Ash meadows, NV	10251275	--	1993-97
Peak Spring Canyon Creek near Charleston Peak, NV	10251890	3.09	1977-83, 1984-94
Lees Creek near Pahrump, NV	10251900	--	1916
Intermittent Springs near Pahrump, NV	10251950	--	1916
Lovell Wash near Blue Diamond, NV	10251980	52.8	1967-77
Virginia Creek near Bridgeport, CA	10289000	63.6	1954-75
Green Creek near Bridgeport, CA	10289500	19.5	1954-75
Summers Creek near Bridgeport, CA	10290000	8.26	1954-59
Robinson Creek near Bridgeport, CA	10291000	40.2	1911-12
Swauger Creek near Bridgeport, CA	10292000	52.8	1912-15, 1954-75
East Walker River below Sweetwater Creek near Bridgeport, CA	10293050	467	1974-82
East Walker River above Mason Valley near Mason, NV near Mason, NV	10294000	--	1916-18, 1921-24
East Walker River near Yerington, NV	10294500	--	1903-08
East Walker River near Mason, NV	10295000	1,230	1911-16
West Walker River at Leavitt Meadows, near Coleville, CA	10295200	73.0	1945-64
Saroni Canal near Wellington, NV	10298000	--	1920-23
West Walker River near Wellington, NV	10298500	521	1918-24
Desert Creek near Wellington, NV	10299100	50.4	1965-69
Walker River near Nordyke, NV	10300500	--	1895
Walker River near Mason, NV	10300600	2,400	1974-84
Walker River at Mason, NV	10301000	--	1911-16, 1921-23
Walker River above Little Dam near Schurz, NV	10301745	--	1995-2001
Walker River at Shurz, NV	10302000	2,850	1914-33
East Fork Carson River above Soda Springs Ranger Station, near Markleeville, CA	10302500	30	1947-51
Silver King Creek near Coleville, CA	10303000	31.6	1947-51
East Fork Carson River at Silver King Valley, near Markleeville, CA	10303500	--	1911-12
Wolf Creek near Markleeville, CA	10304000	11.7	1947-51
Silver Creek below Pennsylvania Creek, near Markleeville, CA	10304500	19.6	1947-67
Silver Creek near Markleeville, CA	10305000	27.3	1911-12
East Fork Carson River near Markleeville, CA	10305500	208	1911-31
Hot Springs Creek near Markleeville, CA	10306000	14.3	1947-57
Hot Springs Creek at Markleeville, CA	10306500	26.7	1912-30
Pleasant Valley Creek above Raymond Canyon Creek near Markleeville, CA	10307000	14.6	1947-50
Pleasant Valley Creek near Markleeville, CA	10307500	25.2	1911-12
Markleeville Creek at Markleeville, CA	10308000	53.7	1911-31
East Fork Carson River at California-Nevada State Line, CA	10308500	300	1911-14
Indian Creek at Woodfords, CA	10309025	1.7	1987-91
Indian Creek at Diamond Valley near Paynesville, CA	10309030	16.15	1987-91
Indian Creek above Mouth near Gardnerville, NV	10309035	25.4	1994-98
Pine Nut Creek near Gardnerville, NV	10309050	10.14	1980-97
Buckeye Creek near Minden, NV	10309070	46.3	1980-97
East Fork Carson River at Minden, NV	10309100	392	1974-84, 1994-98
West Fork Carson River above Woodfords, CA	10309500	53	1947-51
Fredericksburg Canyon Creek near Fredericksburg, CA	10310300	3.71	1989-2000
Miller Spring near Sheridan, NV	10310350	--	1989-97

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
West Fork Carson River at Muller Lane near Minden, NV	10310358	--	1994-98
East Branch Brockliss Slough at Muller Lane near Minden, NV	10310402	--	1994-98
West Branch Brockliss Slough at Muller Lane near Minden, NV	10310403	--	1994-98
Carson River at Genoa, NV	10310405	570	1974-82
Vicee Canyon Creek near Carson City, NV	10311250	1.30	1983-85
Vicee Canyon Creek near Sagebrush Ranch near Carson City, NV	10311260	1.83	1984-85, 1989-97
Carson River near Empire, NV	10311500	988	1901-07, 1911-23
Carson River at Dayton, NV	10311700	1090	1**4-97
Buckland Ditch near Fort Churchill, NV	10311900	--	1962-72
Stillwater Slough Cutoff Drain near Stillwater, NV	10312220	--	1967-81
Paiute Diversion Drain near Stillwater, NV	10312240	--	1967-81
Paiute Drain above D-line Canal near Stillwater, NV	10312250	--	1989-90
Indian Lakes Canal near Fallon, NV	10312260	--	1967-81
Indian Lakes Canal below East Lake near Stillwater, NV	10312265	--	1979-82
D-line Canal below East Lake near Stillwater, NV	10312267	--	1989
Paiute Drain at Wildlife Entrance near Stillwater, NV	10312270	--	1980-82
TJ Drain at Wildlife Entrance near Stillwater, NV	10312274	--	1989-90
Carson River below Fallon, NV	10312280	--	1967-85
Bishop Creek near Wells, NV	10312500	125	1910-11
Starr Creek near Deeth, NV	10313000	--	1913-24
Marys River at Marys River Cabin, near Deeth, NV	10313500	--	1913-14
Hanks Creek near Deeth, NV	10314000	--	1913-14
Marys River at Buena Vista Ranch, near Deeth, NV	10314500	--	1913-14
Marys River near Deeth, NV	10315000	355	1903, 1912-28
Secret Creek near Halleck, NV	10316000	35.0	1917-24
Lamoille Creek near Halleck, NV	10317000	245	1913-19
North Fork Humboldt River near North Fork, NV	10317400	11.0	1965-82
Mahala Creek near Tuscarora, NV	10317420	4.48	1980-85
Mahala Creek at State Hwy 225 near Tuscarora, NV	10317430	22.9	1980-82
Gance Creek near Tuscarora, NV	10317450	6.45	1980-87
Gance Creek at State Hwy 225 near Tuscarora, NV	10317460	20.2	1980-82
North Fork Humboldt River at Devils Gate near Halleck, NV	10317500	830	1914-22, 1944-82
South Fork Humboldt River near Lee, NV	10319000	54.0	1945-55
Huntington Creek near Lee, NV	10319500	770	1949-73
Tenmile Creek above South Fork Humboldt River near Elko, NV	10319950	164	1989-90
Dixie Creek above South Fork Humboldt River near Elko, NV	10320100	159	1989-96
South Fork Humboldt River near Elko, NV	10320500	1,310	1896-1922, 1924-32, 1937-73
Susie Creek near Carlin, NV	10321500	82.5	1956-58
Jack Creek below Indian Creek near Carlin, NV	10321860	10.47	1991-93
Maggie Creek near Carlin, NV	10321970	--	1990-91
Pine Creek near Palisade, NV	10323000	999	1912-14, 1946-58
Humboldt River near Dunphy, NV	10323400	--	1981-83
Humboldt River near Argenta, NV	10323500	7,490	1946-83
Humboldt River below Slaven Ditch near Argenta, NV	10323600	--	1981-84
Rock Creek at Rock Creek Ranch near Battle Mountain, NV	10324000	--	1915, 1917
Reese River near Ione, NV	10325500	53.0	1951-80
Reese River near Berlin, NV	10326000	94.0	1913-16
Big Creek near Austin, NV	10326500	9.0	1914,1916
Reese River near Austin, NV	10326700	1,130	1964-68
Fish Creek near Battle Mountain, NV	10326800	64.7	1977-85
Humboldt River near Valmy, NV	10327000	--	1950-58
Pole Creek near Golconda, NV	10328000	10.7	1961-74
North Fork Little Humboldt River near Paradise Valley, NV	10328450	210	1976-82
South Fork Little Humboldt River near Paradise Valley, NV	10328475	431	1976-83
Little Humboldt River below Chimney Dam near Paradise Valley, NV	10328500	780	1942-51, 1975-82
Cottonwood Creek near Paradise Valley, NV	10330000	--	1925-34
Cottonwood Creek at Paradise Valley, NV	10330500	57.4	1945-51
Humboldt River near Winnemucca, NV	10330900	14,600	1961-64
Humboldt River near Rose Creek, NV	10331500	15,200	1948-70
H L I L & P Company Feeder Canal near Mill City, NV	10332490	--	1914-31, 1937-38
H L I L & P Company Feeder Canal near Imlay, NV	10332500	--	1947-77
Humboldt River near Humboldt, NV	10333500	--	1933
H L I L & P Company Outlet Canal near Humboldt, NV	10334000	--	1914-20, 1922-41
Humboldt River near Lovelock, NV	10336000	16,600	1912-27, 1950-59, 1998-2000
Toulon Drain at Derby Field Road near Toulon, NV	10336035	--	1998-2000
Army Drain above Iron Bridge near Lovelock, NV	10336039	--	1999-2000

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
Lower Humboldt Drain near Lovelock, NV	10336050	--	1965-66
Grass Lake near Meyers, CA	10336593	6.99	1971-74
Upper Truckee River near Meyers, CA	10336600	33.1	1961-86
Fallen Leaf Lake near Camp Richardson, CA	10336625	16.7	1969-92
Taylor Creek near Camp Richardson, CA	10336626	16.7	1969-92
Carnelian Creek at Carnelian Bay, CA	10336686	2.93	1999-2000
Edgewood Creek Trib near Daggett Pass, NV	10336756	--	1981-83
Trib Of Edgewood Creek Trib near Tahoe Village, NV	10336757	--	1981-83
Edgewood Creek Trib at Highland Drive near Tahoe Village, NV	10336758	--	1981-83
Edgewood Creek near Stateline, CA	10336759	3.2	1983-87
Edgewood Creek at Lake Tahoe near Stateline, CA	10336765	5.50	1989-92
Summit Creek above Donnor Lake near Truckee, CA	10338100	4.96	1998
Donner Creek near Truckee, CA	10339000	29.4	1902-15, 1928-43
Truckee River above Prosser Creek near Truckee, CA	10339419	36.1	1993-98
South Fork Prosser Creek near Truckee, CA	10339500	6.37	1910
Prosser Creek at Hobart Mills, CA	10339700	27.4	1959-63
Alder Creek near Truckee, CA	10339900	7.47	1959-69, 1971-73
Prosser Creek near Truckee, CA	10340000	47.4	1904, 1908-12
Webber Creek near Truckee, CA	10341000	14.7	1910
Little Truckee River near Truckee, CA	10341500	32.3	1910
Little Truckee River below Diversion Dam near Sierraville, CA	10341950	36.1	1993-98
Little Truckee River near Hobart Mills, CA	10342000	37.1	1947-72
Little Truckee River at Highway 89 near Truckee, CA	10343200	59.0	1993-94
Bronco Creek at Floriston, CA	10345700	15.4	1993-98
Truckee River near Essex, NV	10347000	991	1889
Dog Creek near Verdi, CA	10347300	16.2	1956-61
Dog Creek at Verdi, CA	10347310	24.2	1993-98
Truckee River at Laughtons, CA	10347500	1,050	1890
Hunter Creek near Reno, NV	10347600	11.5	1962-72, 1978-81
Hunter Creek above Last Chance Ditch near Reno, NV	10347620	11.7	1993-95
Peavine Creek near Reno, NV	10347800	2.34	1963-74
Orr Ditch at Spanish Springs Valley near Sparks, NV	10348220	--	1992-95
Franktown Creek at Franktown, NV	10348500	14.0	1948-55, 1958
Galena Creek near Steamboat, NV	10348900	8.5	1961-94
Steamboat Creek at Steamboat Springs, NV	10349500	123	1900-2001
Whites Creek near Steamboat, NV	10349700	8.02	1962-66
Truckee River below Tracy, NV	10350400	1,590	1972-97
Truckee River at Clarks, NV	10350500	--	1907-15
Fernley A-Drain near Fernley, NV	10351350	--	1969-80
'A' Drain at Powerline Crossing near Fernley, NV	10351356	--	1989-90
Truckee River near Wadsworth, NV	10351800	--	1902-05
East Fork Quinn River near McDermitt, NV	10353000	140	1949-82
Quinn River near McDermitt, NV	10353500	1,100	1949-85
Kings River near Orvada, NV	10353600	20.5	1962-68, 1976-95
Quinn River near Denio, NV	10353650	3,520	1964-67, 1978-81
Leonard Creek near Denio, NV	10353700	52.0	1961-83
South Willow Creek near Gerlach, NV	10353770	31.0	1973-2000
Red Mountain Creek near Gerlach, NV	10353790	30.0	1967-68
Badger Creek Trib near Vya, NV	10361700	7.70	1964-72
Wildhorse Reservoir near Gold Creek, NV	13174000	209	1938-96
Owyhee River at Patsville, NV	13174900	305	1972-75
Owyhee River at Mountain City, NV	13175000	350	1913-14, 1927-49
Owyhee River near Owyhee, NV	13175500	380	1914-26
Owyhee River above China Diversion Dam near Owyhee, NV	13176000	458	1939-84
Jack Creek below Schoonover Creek near Tuscarora, NV	13176900	19.8	1962-69
Jack Creek near Tuscarora, NV	13177000	31.0	1913-25
South Fork Owyhee River at Spanish Ranch near Tuscarora, NV	13177200	330	1959-74

DISCONTINUED SURFACE WATER-QUALITY STATIONS

The following surface water-quality sites have been discontinued. Water-quality data were collected and published for the period of record expressed in water years, shown for each station. Abbreviations: CH, chemical; TE, temperature; SE, sediment; BI, biological.

Station name	Station number	Type of data	Period of record (water years)
Virgin River at Bloomington, UT	09413300	CH, TE, SE, BI	1978-80
Virgin River above I15 Rest Area near Littlefield, AZ	09413600	CH, TE, SE, BI	1977-80
Virgin River below I15 Rest Area near Littlefield, AZ	09413650	CH, TE, SE, BI	1977-80
Virgin River at Mouth of Narrows near Littlefield, AZ	09413800	CH, TE, SE, BI	1977-80
Virgin River at Mesquite, NV	09415090	CH, TE, SE	1992-93
Virgin River at Riverside, NV	09415190	CH, TE, SE	1974-75 1992-95
Virgin River below Riverside, NV	09415200	CH, TE, BI	1969-74
Virgin River above Halfway Wash near Riverside, NV	09415230	CH, TE, SE, BI	1909, 1978-86 1992-95
Pahranagat Wash near Moapa, NV	09415850	CH, TE, SE	1991-93
Pahranagat Wash below Arrow Canyon near Moapa, NV	09415852	CH, TE, SE	1991-93
Muddy River near Moapa, NV	09416000	CH, TE, SE	1977-78, 1989-94
Muddy River at Weiser Ranch near Moapa, NV	09417400	CH, TE	1992
Meadow Valley Wash near Caliente, NV	09418500	CH, TE	1977-84 1990
Meadow Valley Wash below Lyman Crossing	09418670	CH, TE	1990-91
Meadow Valley Wash below Hoya Siding near Rox, NV	09418685	CH, TE	1992
Meadow Valley Wash 1.1 Miles above Rox, NV	09418690	CH	1991
Meadow Valley Wash Seep West Side RR .6 Miles above Rox	09418692	CH, TE	1992-93
Meadow Valley Wash above Rox, NV	09418693	CH, TE	1990-93
Meadow Valley Wash near Rox, NV	09418700	CH, TE, SE	1988-94
Meadow Valley Wash below Farrier Wash near Rox, NV	09418750	CH, TE, SE	1990, 1993
Muddy River near Glendale, NV	09419000	CH, TE	1977-83
Muddy River near Overton, NV	09419500	CH	1977
Muddy River at Overton NV	09419505	CH, TE	1992
Muddy River below Overton, NV	09419510	CH, TE, BI	1970-74
Muddy River above Lake Mead near Overton, NV	09419515	CH, TE, SE, BI	1973, 1979-93
Las Vegas Wash above Detention Basin near North Las Vegas, NV	09419648	CH, TE, SE	1989 1991-93
Las Vegas Wash at Vegas Valley Drive near Las Vegas, NV	094196784	CH, TE, SE, BI	1992
Las Vegas Wasteway near East Las Vegas, NV	09419679	CH, TE, SE	1979-80, 1994
Las Vegas Wash near Henderson, NV	09419700	CH, TE, SE, BI	1970-92
Las Vegas Wash below Henderson, NV	09419750	CH, TE, BI	1970-73
Las Vegas Wash above Three Kids Wash below Henderson, NV	09419753	CH, TE	1988-92, 1995
Las Vegas Wash below Lake Las Vegas below Henderson, NV	09419790	CH, TE, SE	1993-95
Las Vegas Wash near Boulder City, NV	09419800	CH, TE, SE, BI	1969-85, 1992
Lake Mead near Las Vegas Beach, NV	09420900	CH, TE	1973-83, 1985
Lake Mead at Saddle Island, NV	09420950	CH, TE	1973-83 1985
Colorado River at Willow Beach, AZ	09421900	CH, TE	1992
Colorado River below Davis Dam, NV-AZ	09423000	CH, TE, SE, BI	1969-87, 1992
Colorado River Lagoon North of Riviera, AZ	09423050	CH, TE	1973-85 1987-92
Colorado River below Lagoon North of Riviera, AZ	09423060	CH, TE	1973-85 1987-90
Thousand Springs Creek near Wilkins, NV	10172907	CH, TE	1985-90,
Thousand Springs Creek above Toano Draw near Shores, NV	1017290840	CH, TE	1986
Thousand Springs Creek near Shores, NV	1017290880	CH, TE	1985-87
Thousand Springs Creek below Toano Draw near Shores, NV	1017290885	CH, TE	1987-90
Thousand Springs Creek below Toano Draw near Shores, NV	1017290890	CH, TE	1986
Rock Spring Creek near Shores, NV	1017290950	CH, TE	1986
Thousand Springs Creek near Tacoma, NV	10172910	CH, TE	1987
Thousand Springs Creek above Eighteen Mile Canyon near Montello, NV	1017291080	CH, TE	1986
Crittenden Springs above Crittenden Reservoir near Montello NV	1017291130	CH, TE	1985-87, 1989-90
Thousand Springs Creek below Crittenden Creek near Montello, NV	1017291190	CH, TE	1985-86
Thousand Springs Creek near Montello, NV	10172914	CH, TE	1985-90
Lehman Creek near Baker, NV	10243260	CH, TE	1987-88, 1990
Cleve Creek near Ely, NV	10243700	CH, TE	1978
Franklin River near Arthur, NV	10244720	CH, TE	1977-83
Overland Creek near Ruby Valley, NV	10244745	CH, TE	1977-81, 1987-88, 1990
Illipah Creek near Hamilton, NV	10245445	CH, TE	1988, 1990
Illipah Creek Tributary near Hamilton, NV	10245450	CH, TE	1987
Pine Creek near Belmont, NV	10245900	CH, TE	1969, 1979-84

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
Mosquito Creek near Belmont, NV	10245910	CH, TE	1979-84
Stoneberger Creek near Austin, NV	10245925	CH, TE	1979-84
Lower Currant Creek near Currant, NV	10246846	CH, TE	1977-81
Willow Creek near Warm Springs, NV	10249190	CH, TE	1979-84
McClusky Creek near Austin, NV	10249200	CH, TE	1978-81
Kingston Creek below Cougar Canyon near Austin, NV	10249280	CH, TE	1977-84
North Twin River near Round Mountain, NV	10249295	CH, TE, SE, BI	1986
South Twin River near Round Mountain, NV	10249300	CH, TE, SE, BI	1967-96
Chiatovich Creek near Dyer, NV	10249900	CH, TE, SE, BI	1974-82, 1987-88, 1990
Amargosa River at Highway 95 below Beatty, NV	10251218	CH, TE	1993
Amargosa River near Beatty, NV	10251220	CH	1993
Unnamed Tributary-Stockade Wash near Rattlesnake Ridge, NTS, NV	10251248	CH, TE	1992-93
Stockade Wash at Airport Road, NTS, NV	102512484	CH, TE	1993
Yucca Wash near Mouth, Nevada Test Site, NV	10251252	CH, TE	1993
Pagany Wash Number 1, NTS, NV	102512533	CH, TE	1993
Cane Spring Wash Tributary below Skull Mountain, NTS, NV	102512654	CH, TE	1993
Amargosa River near Eagle Mountain below Death Valley Junction, CA	10251280	CH, TE	1993
Robinson Creek at Twin Lakes Outlet near Bridgeport, CA	10290500	CH, TE	1994-95
Buckeye Creek near Bridgeport, CA	10291500	CH, TE, SE	1977-79, 1995
East Walker River near Bridgeport, CA	10293000	CH, TE, BI	1959-71, 1973-85, 1994-95
East Walker River above Strosnider Drive near Mason, NV	10293500	CH, TE	1977-80, 1994-95
West Walker River at Highway 108 Bridge below Pickel Meadow, CA	10295300	TE, SE	1995
Little Walker River near Bridgeport, CA	10295500	CH, TE, SE	1977-85, 1990, 1995
West Walker River below Little Walker River near Coleville, CA	10296000	CH, TE, SE	1961-66, 1969-71, 1973-80, 1987-88, 1990, 1994-95
West Walker River near Coleville, CA	10296500	CH, TE	1977-84, 1994-95
West Walker River above Topaz Lake at Topaz, CA	10296650	CH, TE	1990-96
Topaz Lake near Topaz, CA	10297000	CH, TE	1994
West Walker River at Hoye Bridge near Wellington, NV	10297500	CH, TE	1977-96
West Walker River near Hudson, NV	10300000	CH, TE	1977-80, 1982, 1994-95
Walker River near Mason, NV	10300600	CH, TE	1977-84
East Drain above Mason Valley Wildlife Management Area near Yerington, NV	10301180	CH, TE	1994
Perk Slough at Mason Valley Wildlife Management Area Boundary near Wabuska, NV	10301280	CH, TE	1994
West Branch Spragg-Alcorn-Bewley Ditch at Sierra Way near Wabuska, NV	10301470	CH, TE	1994
Wabuska Drain at Sierra Way near Wabuska, NV	10301480	CH, TE	1994
Wabuska Drain above Confluence Walker River near Parker Butte near Wabuska, NV	10301495	CH, TE	1994
Walker River near Wabuska, NV	10301500	CH, TE, SE, BI	1969-95
Walker River above Weber Reservoir near Schurz, NV	10301600	CH, TE	1976-81, 1994
Weber Reservoir near Schurz, NV	10301700	CH, TE	1994
Walker River below Weber Reservoir near Schurz, NV	10301710	CH, TE	1977-80
Walker River above Canal 1-2 Diversion Weir near Schurz, NV	10301740	CH, TE	1994
Walker River at Little Dam Weir above Schurz, NV	10301750	CH, TE	1977-81
Lateral 1A above Highway 95 at Schurz, NV	10301765	CH, TE	1994-95
Lateral 2A at Takeout near Schurz, NV	10301770	CH, TE	1994-95
Lateral 2D below Schurz, NV	10301780	CH, TE	1994
Walker River at Schurz, NV	10302000	CH, TE	1994-95
Walker River at Lateral 2-A Siphon near Schurz, NV	10302002	CH, TE, SE	1994-95
Walker River at Powerline Crossing near Schurz, NV	10302005	CH, TE, SE	1994-95
Walker River near Mouth at Walker Lake, NV	10302025	CH, TE	1994-95
East Fork Carson River Below Markleeville Creek near Markleeville, CA	10308200	CH, TE, SE, BI	1966-70, 1977-81, 1992, 1998
East Fork Carson River above Bryant Creek near Gardnerville, NV	10308525	CH, TE, SE	1998
Leviathan Creek above Mine near Markleeville, CA	10308783	CH, TE	1980-82
Leviathan Mine Tunnel Spring near Markleeville CA	10308784	CH, TE	1980-82
Leviathan Mine Pit Flow near Markleeville, CA	10308785	CH, TE	1980-82
Leviathan Mine Waste Flow near Markleeville, CA	10308786	CH, TE	1980-82
Leviathan Mine Seep below Crusher near Markleeville, CA	10308787	CH, TE	1981-82
Leviathan Creek below Delta near Markleeville, CA	10308788	CH, TE	1981-82
Leviathan Creek below Mine near Markleeville, CA	10308790	CH, TE	1980-82
Bryant Creek below Mountaineer Creek near Markleeville, CA	10308794	CH, TE, SE	1982, 1998
Bryant Creek near Gardnerville, NV	10308800	CH, TE, CH, SE	1979, 1982 1998
Bryant Creek above East Fork Carson River near Gardnerville, NV	10308875	CH, TE, SE	1998
East Fork Carson River below Bryant Creek near Gardnerville, NV	10308900	CH, TE, SE	1998

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
East Fork Carson River near Gardnerville, NV	10309000	CH, TE,	1977
		CH, TE, SE	1978-80
		CH, TE	1981-84, 1987-96
East Fork Carson River near Dresslerville, NV	10309010	CH, TE, SE, BI	1993-95, 1996, 1998
East Fork Carson River at Riverview Drive Bridge near Dresslerville, NV	10309089	CH, TE, SE	1998
East Fork Carson River at Minden, NV	10309100	CH, TE, BI	1977-84, 1994-95
West Fork Carson River above Woodfords, CA	10309500	BI	1994-95
West Fork Carson River at Woodfords, CA	10310000	CH, TE, SE	1961-84, 1987-88, 1990, 1994
West Fork Carson River at Paynesville, CA	10310200	CH, TE, BI	1992-97
West Fork Carson River near Dresslerville, NV	10310355	CH, TE	1990-91
West Fork Carson River at Muller Lane near Minden, NV	10310358	BI	1994-95
Daggett Creek near Genoa, NV	10310400	CH,TE	1981
Carson River at Genoa, NV	10310405	CH, TE	1977-81
Carson River at Cradlebaugh Bridge near Genoa, NV	10310450	CH, TE, SE	1983,
		CH, TE	1988
Clear Creek Near Carson City, NV	10310500	CH, TE	1987-89, 1996-97
Carson River at McTarnahan Bridge near Carson City, NV	10310800	CH	1992
Carson River near Carson City, NV	10311000	CH, TE, SE, BI	1977-84, 1990-97
North Fork Kings Canyon Creek near Carson City, NV	10311090	CH	1996-97
Kings Canyon Creek near Carson City, NV	10311100	CH, TE	1977-84 1996-97
Ash Canyon Creek near Carson City, NV	10311200	CH, TE	1977-84, 1996-97
Eagle Valley Creek at Carson City, NV	10311300	SE	1997
Carson River at Deer Run Road near Carson City, NV	10311400	CH, TE, SE	1979-84, 1993-95, 1998-99
Carson River at Dayton, NV	10311700	CH, TE, SE, BI	1994-95, 1997-98
Gold Canyon Creek at Dayton, NV	10311710	CH, TE, SE	1998
Carson River below Dayton, NV	10311715	CH, TE, SE	1998-99
Six Mile Canyon Creek at Highway 50 near Dayton, NV	10311725	CH, TE, SE	1998
Carson River at Chaves Ranch near Clifton, NV	10311860	CH, TE, SE	1998-99
Carson River 2.8 miles below Highway 95 near weeks, NV	10312025	CH, TE, SE	1998
Carson River near mouth at Lahontan Reservoir, NV	10312030	CH, TE, SE	1998
Carson River Diversion Dam Outflow at V-Canal near Fallon, NV	10312155	CH, TE, SE	1998
Sheckler Reservoir at Outlet near Fallon, NV	10312165	CH, TE, SE	1986-88
Upper Westside Drain at Candee Lane near Fallon, NV	10312167	CH, TE	1988
Holmes Drain at Gage near Fallon, NV	10312170	CH, TE	1987-89, 1994
G-line Extension on Drain at US 95 near Fallon, NV	10312171	CH, TE	1987-89
Sheckler Drain at St. Clair Road near Fallon, NV	10312172	CH, TE	1988
South Branch Carson River at St. Clair Road near Fallon, NV	10312173	CH, TE	1988
Harrigan Road Drain above Upper Diagonal Drain near Fallon, NV	10312176	CH, TE	1988
“L” Drain above Diagonal Drain near Fallon, NV	10312178	CH, TE	1988
Carson Lake Drain above Carson Lake near Fallon, NV	10312180	CH, TE, SE, BI	1986-87, 1989, 1994-97
Pasture Road Drain above Diagonal Drain near Fallon, NV	10312181	CH, TE	1988
Lower Diagonal Drain at Pasture Road near Fallon, NV	10312182	CH, TE, SE, BI	1988, 1994-97
“L” Drain above Lee Drain near Fallon, NV	10312183	CH, TE, BI, SE	1987-89, 1994-97
L 12 Canal above Macari Lane near Fallon, NV	1031218750	CH, TE, SE	1995-96
Lower Diagonal Drain at Highway 50 near Fallon, NV	10312190	CH, TE	1986-88 1995
Lower Diagonal Drain at Gage near Stillwater, NV	10312200	CH, TE	1988
S-Line Reservoir Outflow near Fallon, NV	1031220120	CH, TE. SE	1998
Harmon Reservoir Outflow near Fallon, NV	1031220130	CH, TE. SE	1998
New River Canal below New River Slough near Stillwater, NV	10312206	CH, TE	1988
Stillwater Point Diversion Drain near Stillwater, NV	10312215	CH, TE, SE	1986-90
Stillwater East-West Canal below Outlet near Stillwater, NV	10312216	CH, TE, SE	1988, 1998
Stillwater Slough Cutoff Drain near Stillwater, NV	10312220	CH, TE, SE	1971, 1977-78, 1986, 1996 1998
D-Line Canal at Sagouspe Dam near Fallon, NV	10312256	CH, TE, SE	1998
D-Line Canal below East Lake near Stillwater, NV	10312267	CH, TE, SE	1987-89
Carson River at Tarzyn Road near Fallon, NV	10312275	CH, TE, SE	1992-95, 1998
Dixie Creek above South Fork Humboldt River near Elko, NV	10320100	SE	1990-96
Fish Creek near Battle Mountain, NV	10326800	CH, TE	1977-84
Humboldt River near Golconda, NV	10327800	CH, TE	1990-91
North Fork Little Humboldt River near Paradise Valley, NV	10328450	CH, TE	1977-82

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
South Fork Little Humboldt River near Paradise Valley, NV	10328475	CH, TE	1978-82
Little Humboldt River below Chimney Dam near Paradise Valley, NV	10328500	CH, TE	1978, 1980-82
Little Humboldt River near Paradise Valley, NV	10329000	CH, TE	1977-84
Martin Creek near Paradise Valley, NV	10329500	CH, TE	1977-84
Cottonwood Creek near Paradise Valley, NV	10330000	CH, TE, SE	1977
Humboldt River near Humboldt, NV	10333500	CH, TE	1971
Rye Patch Reservoir near Rye Patch, NV	10334500	CH, TE	1990-91
Lovelock Drain above Graveyard Drain near Lovelock, NV	10335750	CH, TE	1990-91
Bradys Hot Springs Creek at Road Crossing at Bradys Hot Springs, NV	10336150	CH, TE	1988
Big Meadow Creek above Highway 89, CA	103365932	CH, TE, SE	1996-97
Upper Truckee River at mouth - east channel	103366117	CH, TE, SE	1996-97
Taylor Creek at Highway 89 near Camp Richardson	10336628	CH, TE, SE	1998
Blackwood Creek below North Fork Blackwood Creek near Tahoe City, CA	103366594	CH, TE, SE	1989
Blackwood Creek at Blackwood Canyon Road near Tahoe City, CA	103366596	CH, TE, SE	1989
First Creek above Len Way near Incline Village, NV	10336683	CH	1980
First Creek above Dale Drive near Incline Village, NV	10336685	CH, TE, SE	1980-81
Dale Drive Ditch at First Creek near Incline Village, NV	10336686	CH, TE, SE	1980-81
Dale Drive Ditch near Incline Village, NV	10336687	CH, TE, SE	1980-81
Second Creek near Crystal Bay, NV	10336690	CH, TE, SE	1970-73
West Fork Second Creek at Lakeshore Drive near Crystal Bay	103366905	CH, TE, SE	1995-97, 2000
Second Creek at Lakeshore Drive near Crystal Bay, NV	10336691	CH, TE, SE	1991-2001
Burnt Creek at Lakeshore Drive at Incline Village, NV	103366913	CH, TE, SE	2000
Wood Creek above Jennifer Street near Incline Village, NV	10336692	CH, TE, SE	1991-2001
Wood Creek near Crystal Bay, NV	10336693	CH, TE, SE	1970-73
Third Creek below Unnamed Tributary near Incline Village, NV	103366958	CH, TE, SE	1989, 1991-2001
Third Creek at Incline Village, NV	10336696	CH, TE, SE	1970-73
Third Creek at Village Boulevard at Incline Village, NV	103366965	CH, TE, SE	1989, 1991-2000
Third Creek at Highway 28 at Incline Village, NV	10336697	CH, TE, SE	1989
Incline Creek Tributary at Highway 28 at Incline Village, NV	103366999	CH, TE, SE	1989-90
Marlette Creek near Carson City, NV	10336715	CH, TE	1977-84, 1990-91
Glenbrook Creek at US 50 near Glenbrook, NV	10336720	CH, TE, SE	1989
Logan House Creek at Lake Tahoe near Glenbrook, NV	10336745	CH, TE, SE	1989
Glenbrook Creek at Old Highway 50 near Glenbrook, NV	10336725	CH, TE, SE	1972-74, 1989, 91, 2000
Edgewood Creek Tributary near Daggett Pass, NV	10336756	CH, TE, SE	1981-83, 1991-2001
Tributary of Edgewood Creek Tributary near Tahoe Village, NV	10336757	CH, TE, SE	1982-83
Edgewood Creek Tributary at Highland Drive near Tahoe Village, NV	10336758	CH, TE, SE	1981-83
Sediment Catchment Basin near Tahoe Village, NV	103367595	CH, TE, SE	1985
Edgewood Creek below Highway 50 near Stateline, NV	10336761	CH, TE, SE	1984-85, 1989, 1992
Truckee River at Tahoe City, CA	10337500	CH, TE	1991-93
Squaw Creek at Squaw Valley Road at Squaw Valley, CA	10337850	CH, TE	1980
Squaw Creek at Highway 89, near Squaw Valley, CA	10337855	CH, TE	1991-92
Truckee River Tributary near Truckee, CA	10337900	CH, TE	1991
Truckee River near Truckee, CA	10338000	CH, TE	1992
Truckee River above Donner Creek, near Truckee, CA	10338010	CH	1991
Donner Creek at Donner Lake near Truckee, CA	10338500	CH, TE	1980
Donner Creek near Truckee, CA	10339000	CH, SE	1980
Donner Creek at Mouth, near Truckee, CA	10339003	CH, TE	1991-92
Truckee River at Highway 267, at Truckee, CA	10339010	CH, TE	1980, 1991-92
Martis Creek at Highway 267 near Truckee, CA	10339250	CH, TE, SE	1973-86
Martis Creek near Mouth, at Truckee River near Truckee, CA	10339405	CH, TE	1980, 1991-92
Truckee River above Prosser Creek near Truckee, CA	10339419	CH, TE	1994-98
Truckee River at Old US 40 Bridge, below Truckee, CA	10339498	CH, TE	1980, 1991-92
Prosser Creek below Prosser Creek Dam, CA	10340500	TE	1993-98
Little Truckee River below Boca Dam near Truckee, CA	10344500	TE	1993-98
Truckee River at Boca Bridge near Truckee, CA	10344505	CH, TE	1980
Truckee River near Hirschdale Dump near Hirschdale, CA	10344992	CH, SE	1980
Truckee River below Hirschdale Dump near Hirschdale, CA	10344993	CH, SE	1980
Truckee River at Floriston Dam, near Floriston, CA	10345909	CH, TE	1980, 1991-92
Truckee River below Farad Powerhouse at Farad, CA	10345980	CH, TE	1992
Truckee River at Farad, CA	10346000	CH, TE, SE, BI	1960-61, 1967-81, 1992-98
Truckee River near Essex, NV	10347000	BI	1994-95
Truckee River at Crystal Peak Park at Verdi, NV	10347050	CH, TE, BI	1980
Dog Creek at Verdi, NV	10347310	CH, TE	1991
Truckee River at Bridge Street Bridge at Verdi, NV	10347320	CH, TE	1980, 1992
Truckee River below Viking Plant near Verdi, NV	10347335	CH, SE	1980

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
Truckee River near Verdi, NV	10347336	CH, TE, SE	1980
Truckee River Intragravel near Verdi, NV	10347337	CH, TE	1980
Truckee River near Mogul, NV	10347460	CH, TE	1992
Hunter Creek Reservoir Drain at Mayberry Drive at Reno, NV	10347615	CH, TE	1992
Truckee River at Circle Creek Ranch near Reno, NV	10347640	CH, TE	1992
Truckee River at Mayberry Drive below Lawton, NV	10347690	CH, TE, SE, BI	1979-80, 1992
Truckee River at Idlewild Park at Reno, NV	10347705	CH, TE, BI	1992, 1994-95
Peavine Creek near Reno, NV	10347800	CH, TE, SE	1967, 1969-71, 1973-74
Truckee River in Wingfield Park at Reno, NV	10347861	CH, SE	1980
Highland Plant Spill at Arlington Bridge at Reno, NV	10347870	CH, TE	1992
Truckee River at Reno, NV	10348000	CH, TE, SE, BI	1977-84, 1989-94, 1996-98
Truckee River near Sparks, NV	10348200	CH, TE, SE, BI	1979-80 1992-95
Truckee River Intragravel near Sparks, NV	10348201	CH, TE	1980
Orr Ditch above Spanish Springs Valley near Sparks, NV	10348215	CH, TE	1980
Orr Ditch at Spanish Springs Valley near Sparks, NV	10348220	CH, TE	1995, 1998
North Truckee Drain at Spanish Springs Road near Sparks, NV	10348245	CH, TE	1980, 1995
Franktown Creek near Carson City, NV	10348460	CH, TE	1977-84
Washoe Lake near Carson City, NV	10349980	CH, TE	1980-84
Little Washoe Lake near Steamboat, NV	10348800	CH, TE	1980-83
Galena Creek near Steamboat, NV	10348900	CH, TE	1977-1984
Steamboat Creek at Steamboat, NV	10349300	CH, TE	1971, 1977-80, 1982-83
Steamboat Creek below Steamboat Ditch at Steamboat, NV	10349490	CH, TE	1980
Boynton Slough above Boynton Lane near Reno, NV	10349880	CH, TE	1980
Dry Creek above Steamboat Ditch near Reno, NV	10349910	CH, TE, SE	1995
Dry Creek at Huffaker Lane near Reno, NV	10349920	CH, TE	1980
Dry Creek at Boynton Slough near Reno, NV	10349960	CH, TE	1980
Pioneer Ditch at University Farms near Reno, NV	10349975	CH, TE	1980
FWM 31: Pioneer Ditch at Jones Ranch near Sparks, NV	10349979	CH, TE	1980
Steamboat Creek at Cleanwater Way near Reno, NV	10349980	CH, TE	1978-80, 1992
Pioneer Ditch Return No. 2 below Kimlick Lane near Reno, NV	10349986	CH	1980
Reno-Sparks STP Outfall near Reno, NV	10349989	CH, TE	1979-80
Reno-Sparks STP Outfall at Reno, NV	10349995	CH, TE	1994-1998
Truckee River at Vista, NV	10350000	CH, TE, SE, BI	1969, 1977-80, 1982-84, 1992-94
Truckee River at Rest Area near Vista, NV	10350010	CH, TE	1992
Truckee River at Lockwood, NV	10350050	CH, TE, SE, BI	1974-81, 1984, 1992, 1994-95
Diversion to Grass Field at Lockwood, NV	10350145	CH	1980
Return from Grass Field at Lockwood, NV	10350146	CH	1980
Truckee River at Mustang Bridge No. 1 near Hafed, NV	10350153	CH, TE	1984, 1991
Truckee River at Patrick, NV	10350200	CH, TE, BI	1979-80, 1984, 1992
Diversion to Grass Pasture below Patrick, NV	10350325	CH	1980
Return from Grass Pasture below Patrick, NV	10350326	CH	1980
Truckee River below Tracy, NV	10350400	CH, TE, BI	1979-80, 1982-84, 1992
Truckee River at Derby Dam, NV	10351000	CH, TE, BI	1979-80
Truckee Canal at US 95 alternate near Fernley, NV	10351320	CH, TE, BI	1979-80, 1988-89
Fernley Check Dam near Fernley, NV	10351322	CH, SE	1980
Fernley Drain at US 95-alternate near Fernley, NV	10351335	CH, TE	1988-89
“A” Drain at US 50-alternate near Fernley, NV	10351345	CH, TE	1988-89
Streiff Drain at US 50-alternate near Fernley, NV	10351353	CH, TE	1988-89
'A' Drain at Powerline Crossing near Fernley, NV	10351356	CH, TE, SE	1988-90
Truckee Canal at Allendale Check Dam near Hazen, NV	10351367	CH, TE, BI	1980
Truckee Canal near Hazen, NV	10351400	CH, TE, SE, BI	1979
Truckee Canal at US 50 above Lahontan Reservoir, NV	10351590	CH, TE, SE, BI	1979-81
Truckee River below Derby Dam near Wadsworth, NV	10351600	CH, TE, SE, BI	1978-80, 1983, 1992-95
Truckee River at Painted Rock Bridge, NV	10351619	CH, TE, BI	1980, 1992
Diversion to Alfalfa Field at Wadsworth, NV	10351643	CH, SE	1980
Return from Alfalfa Field at Wadsworth, NV	10351644	CH, SE	1980
Herman Return near Wadsworth, NV	10351646	CH, TE, BI	1980
Truckee River at Old US 40 Bridge at Wadsworth, NV	10351648	CH, TE, SE, BI	1979-80, 1992
Truckee River below S-S Ranch near Wadsworth, NV	10351684	CH, TE	1980, 1992

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
Truckee River Intragravel below S-S Ranch near Nixon, NV	10351685	CH, TE	1980
Truckee River at Dead OX Wash near Nixon, NV	10351690	CH, TE, SE, BI	1979-80, 1991-95
Truckee River Intragravel at Dead Ox near Nixon, NV	10351691	CH, TE	1980
Truckee River near Nixon, NV	10351700	CH, TE, SE, BI	1960-98
Truckee River at Numana Dam near Nixon, NV	10351725	CH, SE	1980
Truckee River at Highway 447 at Nixon, NV	10351750	CH, TE, SE, BI	1964, 1968, 1978-80, 1988, 1991-95
Truckee River at Marble Bluff Dam near Nixon, NV	10351775	CH, TE, BI	1979-80, 1992
Truckee River Fishway at Marble Bluff Dam near Nixon, NV	10351778	CH, TE, BI	1979
Truckee River below Marble Bluff Dam near Nixon, NV	10351780	CH, TE, SE	1979
Truckee River Delta at Pyramid Lake, NV	10351793	CH, SE	1980
Truckee River Delta at Pyramid Lake, NV	10351795	SE	1979
McDermitt Creek near McDermitt, NV	10352500	CH, TE, SE, BI	1975-84
East Fork Quinn River near McDermitt, NV	10353000	CH, TE	1977-81
Quinn River near McDermitt, NV	10353500	CH, TE, SE, BI	1977-86
Kings River near Orovada, NV	10353600	CH, TE	1977-84
Quinn River near Denio, NV	10353650	CH, TE	1978
Leonard Creek near Denio, NV	10353700	CH, TE	1977-83, 1987-88
Mahogany Creek near Summit Lake, NV	10353750	CH, TE	1987-88, 1990
Smoke Creek at BM 4044 near Gerlach, NV	10353799	CH, TE	1990
Cottonwood Creek near Flanigan, NV	10353970	CH, TE	1988
Willow Spring Creek near Flanigan, NV	10353975	CH, TE	1988
Mullen Creek near Flanigan, NV	10353978	CH, TE	1988
Bruneau River at Rowland, NV	13161500	TE, SE	1977-84, 1988-2000
Jarbidge River below Jarbidge, NV	13162225	TE, SE	1988-2000
Owyhee River near Gold Creek, NV	13174500	CH, TE	1977-84
Owyhee River at Mountain City, NV	13175000	CH, TE	1985
Owyhee River above China Diversion Dam near Owyhee, NV	13176000	CH, TE	1977-85
South Fork Owyhee River near Whiterock, NV	13177800	CH, TE	1977-81
Las Vegas Bay Sample Site above Gypsum Wash	360748114520301	CH, TE, SE	1992
Amargosa River near Evelyn, CA	361012116192801	CH	1988
Carpenter Canyon Creek	361440115430901	CH, TE	1987-89
Carson Slough at Stateline Road near Death Valley Junction	361910116224201	CH, TE	1988, 1993
Carson Slough at Spring Meadow Road at Ash Meadows, NV	362453116214501	CH	1988
212 S17 E60 05	362957115172001	CH, SE	1986
212 S16 E59 15	363406115213401	CH, SE	1986
219 S14 E64 12	364357114460501	CH, SE	1986
40-mile Wash at J-12	364551116233700	CH	1984
Busted Butte Wash	364749116235100	CH	1984
40-mile Wash at Road H	364904116234700	CH, TE	1984
40-mile Wash above Drill Hole Wash	364908116234600	CH	1984
Drill Hole Wash at Mouth	364911116235200	CH	1984
222 S12 E69 32	365105114180701	CH, SE	1986
Delirium Canal at Mouth	365513116222901	CH	1993, 1995
Yucca Lake	365600116010000	CH, TE	1978
Pah Canyon above Mouth	365634116221501	CH	1993, 1995
Whiterock Creek	371209116075201	CH	1973
Meadow Valley Wash above Delmues Spring	375140114191801	TE	1985
Kawich Creek near Antler	375731116253800	CH, TE	1985-86
Kawich Creek above Weir	375736116252900	CH, TE	1985-92
Kawich Creek near Big Seep	375736116255201	CH, TE	1985-92
Lost Hammer	375739116253100	CH, TE	1985
MVW above Eagle Canyon River	380140114110901	CH	1985
Stream-Reveille V Ertec	380630116201901	CH	1981
Camp Creek	381437114150801	CH, TE	1985
Wilson Creek	381905114241201	CH, TE	1985
Creek near Upper Pony Spring	381917114383501	CH, TE	1985
B6-VFT-1/Ertec Big Sand	383131116022401	CH, TE	1981
Leviathan Creek 1200 Feet Upstream Site 10308783 above Leviathan Mine	384157119391301	CH, TE	1998
Aspen Creek above Leviathan Mine near Markleeville, CA	384235119385001	CH, TE	1998
Desert Creek at State Highway 22, NV	384250119190000	CH, TE	1973
Aspen Creek above Leviathan Creek near Markleeville, CA	384301119393001	CH, TE	1998
Leviathan Creek above Aspen Creek near Markleeville, CA	384303119393901	CH, TE	1998
Mountaineer Creek above Leviathan Creek near Markleeville, CA	384407119384101	CH, TE	1998
Leviathan Creek above Mountaineer Creek near Markleeville, CA	384407119384201	CH, TE	1998
Bryant Creek above Barney Riley Creek near Markleeville, CA	384505119384001	CH, TE	1998
Fredricksburg Canyon	384941119485101	TE	1981
Fredricksburg Canyon	384941119485102	TE	1981
Little Currant Creek	385004115212901	CH, TE	1983
Swallow Canyon, below	385030114205901	CH	1983
Swallow Canyon, above	385033114205201	CH	1983
Luther Canyon	385133119483001	CH	1981
Upper Angora Lake Sample Point near Angora Peak, CA	385145120040301	CH, TE	1997-98
Fallen Leaf Lake Site 2 at Fallen Leaf, CA	385256120040501	CH, TE	1998

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
East Stewart Creek at Trail	385318117213300	CH, TE	1984-87
East Stewart Creek above Weir	385323117213701	CH, TE	1986-92
Jobs Canyon	385327119502301	CH	1981
Monument Creek	385503119504501	TE	1981
Monument Creek	385503119504502	TE	1981
Culvert-Highway 50 Runoff into Upper Truckee-rb, downstream Highway 50, NV	385521119592201	CH, TE	1995
Mott Canyon	385545119505701	TE	1981
Cascade Lake Sample Site near Center	385618120053101	CH, TE	1997
Culvert-Highway 50 runoff at Edgewood Creek-left bank, upstream, Highway 50, NV	385758119561101	CH, TE, SE	1995-97, 2000
Edgewood Creek Tributary above Edgewood Clubhouse near Stateline	385758119564401	CH, TE, SE	1992, 1994
Edgewood Creek	385803119560901	CH, TE	1987
Minden Sewage Effluent Discharge to East Fork Carson River	385814119475101	CH, TE, BI	1980
Round Hill Sewage Effluent Discharge to East Fork Carson River	385815119475401	BI	1980
Burke Creek	385816119560001	CH, TE	1987
Round Hill Sewage Effluent Discharge to Williams Slough	385824119480301	CH, TE	1980
Kahle Creek	385833119565901	CH, TE	1987
Water Canyon	385902114572401	CH, TE	1983
Genoa Creek at Genoa, NV	390002119505401	CH	1957, 1976
Genoa Canyon	390003119505801	TE	1981
Genoa Canyon	390003119505802	TE	1981
Zephyr Creek	390028119565101	CH, TE	1987
90 N13 E18 03cac 1	390100119564701	CH, TE	1987
Sierra Canyon	390101119505701	CH	1981
Willow Creek	390223114514801	CH, TE	1983-84
Incline Sewage Effluent Discharge to Carson River	390426119460401	CH, TE, BI	1980
Lake Tahoe Sample Point near Chambers Lodge, CA	390427120082201	CH, TE	1998
Lake Tahoe Sample Point at Homewood, CA	390444120090901	CH, TE	1997
Incline Sewage Effluent Discharge near Snyder's Ranch	390523119493101	CH, TE	1980
Lake Tahoe Sample Point - Mid Lake	390618120021101	CH, TE	1997-98
Slaughterhouse Creek	390644119563101	CH, TE	1987
Skunk Creek	390744119563201	CH, TE	1987
Bliss Creek	390835119554801	CH, TE	1987
Carson City STP Discharge	390950119435201	CH, TE	1980
Truckee River at Rampart, near Tahoe City, CA	390954120103700	CH, TE	1991-92
Marlette Lake Sample Site near Center	391033119540301	CH, TE	1997
Carson City Sewage Effluent Discharge to Carson R	391036119422401	CH, TE, BI	1980
Truckee River above Bear Creek, near Alpine Meadows, CA	391108120113900	CH, TE	1991-92
Bear Creek at Mouth, near Alpine Meadows, CA	391125120114900	CH, TE	1991-92
Steptoe Creek	391135114414401	CH, TE	1983
Truckee River at Highway 89 Bridge, near Squaw Valley, CA	391146120115000	CH, TE	1991-92
Truckee River above Squaw Creek, near Squaw Valley, CA	391240120115000	CH, TE	1991-92
Truckee River below Squaw Creek near Squaw Valley, CA	391252120120000	CH, TE	1992
Deer Creek 200 feet above Mouth, near Squaw Valley, CA	391319120115500	CH, TE	1991-92
Silver Creek at Highway 89, near Squaw Valley, CA	391326120120900	CH, TE	1991
Truckee River Tributary 4 Miles Upstream Pole Creek near Squaw Valley, CA	391352120121300	CH, TE	1991
Lake Tahoe Sample Point at Kings Beach, CA	391359120012701	CH, TE	1997
Pole Creek at Mouth, near Squaw Valley, CA	391402120122100	CH, TE	1991-92
Campbell Creek, Smith Creek Valley	391426117394601	CH, TE	1982
Peterson Creek, Smith Creek Valley	391430117313801	CH, TE	1982
Cleve Creek	391446114285801	CH, TE	1983
Unnamed Tributary RB Upstream Deep Creek, near Truckee, CA	391513120123400	CH	1991
Deep Creek above Mouth, near Truckee, CA	391529120123300	CH, TE	1991-92
Truckee River above Rocky Wash, near Truckee, CA	391551120123200	CH, TE	1991
Rocky Wash at Mouth, near Truckee, CA	391557120123200	CH	1991
Cabin Creek at Highway 89, near Truckee, CA	391642120122100	CH, TE	1991-92
Upper Illipah Creek	391654115232401	CH, TE	1983
Carson River at Weeks, NV	391735119150200	CH, TE, SE	1973, 1993-94
Truckee River below Donner Creek near Truckee, CA	391859120115600	CH, TE	1992
Truckee River above Trout Creek, near Truckee, CA	391950120100200	CH, TE	1991-1992
Trout Creek at Mouth, near Truckee, CA	391956120095200	CH, TE	1991
Truckee River at Polaris, near Truckee, CA	392018120080300	CH, TE	1991-92
Carson Lake 1 on Pasture Road near Carson Lake, NV	392106118455601	CH, TE	1995
Lower Illipah Creek	392118115201201	CH, TE	1983
Union Valley Creek at Mouth, near Truckee, CA	392133120064000	CH, TE	1991
Juniper Creek at Mouth, near Hirschdale, CA	392152120041700	CH, TE	1991
Truckee River below Juniper Creek, near Hirschdale, CA	392156120041400	CH, TE	1991-92
DR-SG-NE, Fallon Arsenic	392210118463301	CH, TE	1985
Prosser Creek at Mouth, near Truckee, CA	392213120065800	CH	1991
Truckee River below Prosser Creek, near Truckee, CA	392215120065600	CH, TE	1991-92
Gray Creek at Mouth, near Floriston, CA	392224120014600	CH, TE	1991-92
Truckee River above Bronco Creek, near Floriston, CA	392257120011100	CH, TE	1991-92
Bronco Creek at Mouth, near Floriston, CA	392303120011000	CH, TE	1991-92
Truckee River below Little Truckee River, near Truckee, CA	392304120053400	CH, TE	1991-92
Smith Creek, Smith Creek Valley	392310117390401	CH, TE	1982
L-drain at Pasture Road near Depp Lane near Fallon, NV	392310118432601	CH, TE	1995
Unnamed Drain at Berney and Pasture Roads near Fallon	392410118432801	CH, TE	1995
Steamboat Ditch above Thomas Creek near Reno, NV	392537119474701	CH, TE, SE, BI	1993-95
Upper West Side Drain at Solias Road near Fallon, NV	392552118501101	CH, TE	1995
Lower Diagonal Drain No 1 at US 50 near Fallon, NV	392553118394901	CH, TE	1995
Canyon 24 at Mouth, near Floriston, CA	392555120014800	CH, TE	1991

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record (water years)
Mystic Canyon Creek at Mouth, near Floriston, CA	392556120013000	CH, TE	1991
Last Chance Ditch at Thomas Creek Road near Reno, NV	392612119471801	CH, TE, SE, BI	1993-95
Lake Ditch at Holcomb Lane near Reno, NV	392637119465601	CH, TE, SE, BI	1993-95
Puny Dip Canyon at Mouth, near Floriston, CA	392639120002600	CH, TE	1991
Sheckler Drain at St. Clair Road near Fallon, NV	392643118501201	CH, TE	1995
New River Drain at US 50 near Fallon, NV	392646118401601	CH, TE	1995
Truckee River above Fleish Power Diversion, near Verdi, NV	392706120001500	CH, TE	1991
Dry Creek Diversion above Huffaker Lane near Reno, NV	392717119470301	CH, TE, SE, BI	1993-95
Dry Creek below Huffaker Lane near Reno, NV	392720119470101	CH, TE, SE, BI	1993-95
Deep Canyon Creek at Mouth, near Verdi, NV	392724120002300	CH	1991
Steamboat Ditch near Farretto Lane near Reno, NV	392729119485901	CH, TE, SE, BI	1993-95
Last Chance Ditch at Davis Lane near Reno, NV	392737119480801	CH, TE, SE, BI	1993-95
Lake Ditch at Del Monte Lane near Reno, NV	392744119480201	CH, TE, SE, BI	1993-95
New River Drain at Harrigan Road near Fallon, NV	392801118454001	CH, TE	1995
Unnamed Drain at Stuart Road near Harmon Reservoir	392831118385801	CH, TE	1995
Harmon Drain at Ditch House Road near Fallon, NV	392856118363801	CH, TE	1995
Harmon Drain at NV 116 near Fallon, NV	392857118400101	CH, TE	1995
14N43E28ACD	392900117030000	CH, TE	1967
Water from Surface of Carson River	392940118460000	CH	1969
Hunter Creek below Steamboat Ditch near Reno, NV	392942119533700	CH, TE	1992
Truckee River Tributary at Chalk Bluff near Reno, NV	393040119521200	CH, TE	1992
Pioneer Ditch above McCarren Boulevard near Sparks, NV	393055119442800	CH, TE	1992
S2 Canal X Fitz & Swope	393121118342701	CH, TE	1978
S5A Drain at Austin Road near Fallon, NV	393134118371401	CH, TE	1995
T-Line Canal	393143118533301	CH, TE	1984
A Drain above TJ-1 Drain near Stillwater, NV	393201118364901	CH, TE	1995
TJ-1 Drain below A Drain near Stillwater, NV	393202118364701	CH, TE	1995
Swope Drain at Freeman Lane near Stillwater, NV	393256118330201	CH, TE	1995
Paiute Diversion Drain near Fallon Indian Reservation	393331118341801	CH, TE	1995
Kalamazoo Creek	393417114314101	CH, TE	1983
101 N20 E27 19CCBA1	393448119001001	CH, TE	1988-89
Truckee River above Derby Dam near Wadsworth, NV	393520119270700	CH, TE	1992
Inflow to White Lake from Peavine Peak Area	393852119581501	CH, TE	1982
179 N23 E62 13b 1 Egan Creek	395152114552601	CH, TE	1983-84
Minden-Gardnerville STP Discharge	395756119464401	CH, TE	1980
Goshute Creek	400054114480001	CH, TE	1983
Snow Creek	400243114580301	CH, TE	1983
Clear Creek at Diversion Dam South of Winnemucca, NV	404355117392101	CH, TE	1979
Creek at Wheeler Ranch	410651119080001	CH, TE	1980
Louise Creek	411308118293501	CH, TE	1990
Big Creek	411559118215201	CH, TE	1990
Bottle Creek	411919118195701	CH, TE	1990

DISCONTINUED SURFACE-WATER-QUALITY CONTINUOUS RECORD STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations in Nevada. Daily records of temperature, specific conductance, pH, or dissolved oxygen were collected and published for the period of record shown for each station. Abbreviations: DO, dissolved oxygen; SC, specific conductance; WT, water temperature.

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Virgin River at Littlefield, AZ	09415000	5,090	WT, SC	1950-60, 1965-88
Virgin River above Halfway Wash near Riverside, NV	09415230	5,980	WT, SC	1978-82
Las Vegas Wasteway near East Las Vegas, NV	09419679	--	WT, SC	1980-87, 1979-87
Pahranagat Valley Wash near Moapa, NV	09415850	252	WT,SC	1988-93
Muddy River near Moapa, NV	09416000		WT, SC	1988-93
Meadow Valley Wash near Rox, NV	09418700	2,384	WT, SC	1988-93
Las Vegas Wash above detention basin near North Las Vegas, NV	09419648	--	WT, SC	1989-93
Las Vegas Wash near Henderson, NV	09419700	2,125	WT, SC	1986-87
Las Vegas Wash at powerline crossing below Henderson, NV	09419755	--	WT, SC	1986-87
Las Vegas Wash near Boulder City, NV	09419800	2,193	WT, SC	1979-86
Colorado River below Hoover Dam, AZ-NV	09421500	171,700	WT, SC	1976-77, 1979-86 1980, 1986-87
Steptoe Creek near Ely, NV	10244950	11.1	WT	1986-87 1967-83
South Twin River near Round Mountain, NV	10249300	20.0	WT	1966-68, 1970-83
Chiatovich Creek near Dyer, NV	10249900	37.3	WT	1975-82
Leviathan Creek above mine near Markleeville, CA	10308783	--	WT, SC	1981-82
Leviathan Mine tunnel spring near Markleeville, CA	10308784	--	WT, SC	1981-82
Leviathan Mine pit flow near Markleeville, CA	10308785	--	WT, SC	1982
Leviathan Mine waste flow near Markleeville, CA	10308786	--	WT, SC	1981
Leviathan Mine seep below crusher near Markleeville, CA	10308787	--	WT, SC	1982
Leviathan Creek below delta near Markleeville, CA	10308788	--	WT, SC	1982
Leviathan Creek below mine near Markleeville, CA	10308790	--	WT, SC	1981-82
Bryant Creek below Mountaineer Creek near Markleeville, CA	10308794	--	WT, SC	1982
Bryant Creek near Gardnerville, NV	10308800	31.5	WT, SC	1982-83
East Fork Carson River near Gardnerville, NV	10309000	356	WT, SC	1955-66
Carson River near Fort Churchill, NV	10312000	1,302	WT, SC	1967-72, 1993-96 1962-70, 1972-82, 1994-97
Carson River near Silver Springs, NV	10312020	1,450	WT, SC	1963-71
Carson River below Lahontan Reservoir near Fallon, NV	10312150	1,801	WT	1981-83
Carson Lake Drain above Carson Lake near Fallon, NV	10312180	--	WT, SC	1994-97
Rice Ditch at Gage near Fallon, NV	10312185	--	WT, SC	1994-97
Stillwater Point Diversion Drain near Stillwater, NV	10312215	--	WT, SC, pH, DO	1988-90
Stillwater Slough at Stillwater, NV	10312218	--	WT, SC	1994-97
Paiute Drain above D-line Canal near Stillwater, NV	10312250	--	WT, SC, pH, DO	1988-90 1988-89
D-line Canal below East Lake near Stillwater, NV	10312267	--	WT, SC, pH, DO	1989
TJ Drain at wildlife entrance near Stillwater, NV	10312274	--	WT, SC, pH, DO	1988-90
Humboldt River near Carlin, NV	10321000	4,310	WT	1966-68, 1981-83
Humboldt River at Palisade, NV	10322500	5,010	WT	1962-65
Reese River near Ione, NV	10325500	53	WT	1962
Humboldt River near Imlay, NV	10333000	15,504	WT, SC	1998-2000
Humboldt River near Rye Patch, NV	10335000	16,100	WT, SC	1952-58, 1960-81 1965-81
Humboldt River near Lovelock, NV	10336000	16,600	WT, SC	1998-2000
Toulon Drain at Derby Field Road near Toulon, NV	10336035	--	WT, SC	1998-2000
Army Drain above Iron Bridge near Lovelock, NV	10336039	--	WT, SC	1999-2000
Grass Lake Creek near Meyers, CA	10336593	6.4	WT	1997-2001
Upper Truckee River at Mouth near Venice Drive, CA	10336612	56.5	WT	1997-2001
Third Creek near Crystal Bay, NV	10336698	6.05	WT, SC	1980-85 1980-84
Incline Creek near Crystal Bay, NV	10336700	6.69	WT	1998-2001
Glenbrook Creek at Glenbrook, NV	10336730	4.11	WT	1998-2001
Trout Creek near Mouth East near Bellevue/ElDorado Avenue, CA	10336795	41	WT	1997-2001
Truckee River at Tahoe City, CA	10337500	507	WT	1993-94
Truckee River near Truckee, CA	10338000	553	WT	1977-82, 1993-94
Donner Creek at Highway 89 near Truckee, CA	10338700	29.1	WT	1993-1994
Martis Creek at Highway 267 near Truckee, CA	10339250	25.8	WT	1975-88
Martis Creek near Truckee, CA	10339400	39.9	WT	1975-2000
Little Truckee River below Diversion Dam near Sierraville, CA	10341950	36.1	WT	1994

DISCONTINUED SURFACE-WATER-QUALITY CONTINUOUS RECORD STATIONS--Continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
Little Truckee River at Highway 89 near Truckee, CA	10343200	59.0	WT	1994
Bronco Creek at Floriston, CA	10345700	15.4	WT	1993-94
Truckee River at Floriston, CA	10345900	932	WT, SC	1964-71
Truckee River at Farad, CA	10346000	932	WT, SC	1972-81
				1972-80
Dog Creek at Verdi, NV	10347310	--	WT	1993-94
Truckee River near Verdi, NV	10347336	--	WT	1980
Truckee River at Mogul, NV	10347460	1,035	WT	1994
Hunter Creek above Last Chance Ditch near Reno, NV	10347620	11.7	WT	1993-94
North Truckee Drain at Kleppe Lane nr Sparks, NV	10348300	--	WT, SC	1993-98
Steamboat Creek at Clearwater Way near Reno, NV	10349980	244	WT, SC	1993-1997
				1998
Reno-Sparks Sewer Treatment Plant Outfall at Reno, NV	10349995	--	WT, SC	1994-98
Truckee River at Vista, NV	10350000	1,430	WT, SC	1988-94
Truckee River at Lockwood, NV	10350050	1,433	WT	1980-81
Truckee River above Tracy, NV	10350390	1,590	WT	1972-82
Truckee River below Tracy, NV	10350400	1,590	WT	1972-82
Truckee River right bank below Tracy, NV	10350405	1,590	WT	1972-82
Truckee River at Clark, NV	10350500	1,600	WT, SC	1972-77
				1978-98
Truckee River at Derby Dam, NV	10351000	1,676	WT	1980-81, 1988-95
"A" Drain at powerline crossing near Fernley, NV	10351356	--	WT, SC, pH, DO	1988-90
Truckee Canal at U.S. 50 above Lahontan Reservoir, NV	10351590		WT	1980
Truckee River below Derby Dam near Wadsworth, NV	10351600	1,676	WT	1988-95
Truckee River near Nixon, NV	10351700	1,827	WT, SC	1988-98
McDermitt Creek near McDermitt, NV	10352500	225	WT	1975-78
Quinn River near McDermitt, NV	10353500	1,100	WT, SC	1980-83
South Lead Lake-Southwest landing	393652118311201	--	WT, pH, SC, DO	1988-90
				1988-89

INTRODUCTION

Water-resources data published herein for the 2002 water year comprise the following records:

Water discharge for 175 gaging stations on streams, canals, and drains.

Discharge data for 95 partial record stations and miscellaneous sites, and 16 springs.

Stage and contents for 20 ponds, lakes and reservoirs.

Water levels for 128 primary observation wells, and 818 secondary observation wells.

Water-quality data for 120 stream, canal, spring and drain sites and 174 wells.

Precipitation totals for 38 stations.

Water withdrawals for 11 wells.

Additional water data, collected at various sites that are not part of the systematic data-collection program, are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Nevada.

Records of stream discharge and content or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled “Surface Water Supply of the United States.” Through water year 1960, these water-supply papers were in an annual series; for 1961-70, they were in a 5-year series. Records of water quality were published from 1941 to 1970 in an annual series of water-supply papers entitled “Quality of Surface Waters of the United States.” Records of ground-water levels were published through 1974 in a series of water-supply papers entitled “Ground-Water Levels in the United States.” Water-Supply Papers may be consulted at the libraries of principal cities in the United States, or, if not out of print, they may be purchased from the U.S. Geological Survey, Information Services, Federal Center, Box 25286, Denver, CO 80225-0046.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a state-by-state basis. Water-quality records for water years 1964 through 1974 were similarly released, either in separate reports or in conjunction with the streamflow records.

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published annually as official Geological Survey reports on a state basis. These reports carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as “U.S. Geological Survey Water Data Report NV-01-1.” For archiving and general distribution, the reports for water years 1971-74 are identified also as official water-data reports. The water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. For further ordering information, the Customer Inquiries telephone number is (703) 487-4650, between 8:30 am and 5:30 pm EST.

The computer age has led to the dissemination of information quickly and easily through the Internet, the worldwide computer network. Hydrologic information from the USGS is available on the World Wide Web (WWW). Included are water-related activities, information contacts, publications, and various other items that may be of interest to the general public, local State and other Federal agencies, and universities.

The USGS Nevada district has a web page for disseminating such information. The page can be accessed using the WWW address:

http://nevada.usgs.gov/

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data or funding through cooperative agreement with the Survey during 2002 are:

NEVADA STATE AGENCIES

Bureau of Mines and Geology
CA Department of Water Resources
Dayton Valley Conservation District
Department of Conservation and Natural Resources
Department of Transportation
Division of Environmental Protection
Division of Water Resources
UNR Agricultural Station

INDIAN TRIBES

Pyramid Lake Paiute Tribe
Duck Valley Reservation Shoshone-Paiute Tribes
Fallon Paiute-Shoshone Tribe
Summit Lake Paiute Tribe
Timbisha Shoshone Tribe
Walker River Paiute Tribe

OTHER FEDERAL AGENCIES

Department of Energy
Bureau of Reclamation
Bureau of Land Management
Bureau of Indian Affairs
Corps of Engineers
Environmental Protection Agency
Fallon Naval Air Station
Federal Emergency Management
Fish & Wildlife Service
Forest Service
National Park Service
Nuclear Regulatory Commission
U.S. Board of Water Commissioners
U.S. District Court Watermaster
U.S. Air Force

REGIONAL AGENCIES, CITIES, COUNTIES

Tahoe Regional Planning Agency
Inyo County (CA)
Carson City
Carson Water Subconservancy District
Carson-Truckee Water Conservancy District
Clark County Flood Control Authority
Clark County Sanitation District
City of Henderson
Churchill County
Desert Research Institute
El Dorado County (CA)
Elko County
Las Vegas Valley Water District
Lahontan Water-Quality Control Board
Pershing County Water Conservation District
Southern Nevada Water Authority
Storey County
Truckee Carson Irrigation District
Truckee Meadows Water Authority
Truckee Meadows Water Reclamation Facility
Walker River Irrigation District
Washoe County

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Compiled by Robert E. Bostic, E. James Crompton, Kerry T. Garcia,
and Sonya L. Vasquez

Surface Water

Nevada has no truly large rivers. The largest streams in the State are the Humboldt, Truckee, Carson, Walker, Muddy, Virgin, and Colorado Rivers. The Colorado River, which is by far the largest, forms the boundary between southeastern Nevada and northwestern Arizona. Of the remaining listed rivers, only the Humboldt and Muddy begin and terminate in Nevada.

The larger rivers typically follow the flow pattern of a gaining stream in the well-watered mountain reaches and a losing stream in the lower-altitude reaches. Most of Nevada is typified by basin-and-range topography, and most Nevada rivers have no direct connection with the ocean. Downstream depletion of flow is caused by irrigation, public use, infiltration, and evapotranspiration. Characteristically, stream discharge is low in late summer, and then increases through the autumn and winter until the snowmelt season in the spring. Maximum discharge for the year normally can be expected in May and June, although floods have occurred from November through March as a result of rain or rain on snow.

Much of Nevada is drained by small streams that are dry most of the year. Typically, such streams respond only to intense precipitation, which generally occurs only a few times a year at the most. In many years, the streams have no flow, and even in relatively wet years, total flow duration in such streams can be measured in hours.

Streams and rivers in Nevada drainages for water year 2002, were generally below normal runoff and ranged from around 5 percent to about 75 percent depending on the particular area, elevation of the drainage and water usage in the system. Runoff this year on streams with little or no control was more typical of seasonal runoff, with the peaks generally occurring in mid April and early June.

The Humboldt River begins in northeastern Nevada and terminates in northwestern Nevada. For water year 2002, the discharge at Palisade (station 10322500) was 48 percent of the 95-year mean. Monthly and annual mean discharges for water year 2002 and for the period of record (water years 1903-06, 1912-2002) at the Palisade station are shown in figure 1. Rye Patch Reservoir (station 10334500), the last impoundment on the Humboldt River, at its highest level was 16 percent of full capacity in April, to a low of 5 percent the middle of September.

The Truckee River is a major western Nevada stream for which discharge is largely controlled by reservoirs and regulated lakes in the Sierra Nevada of California and Nevada. The Truckee River begins at Lake Tahoe (station 10337000) which is regulated above its natural rim (6,223 feet above NGVD of 1929). Lake Tahoe during water year 2002 remained above its rim, with the water surface ranging between 6,225.11 mid June to 6,223.52 feet above NGVD of 1929, September 30. The 2002 discharge at Reno (station 10348000) was 63 percent of the 75-year mean (water years 1907-21, 1926, 1931-34, 1947-2002). The river terminates in Pyramid Lake (station 10336500), a closed-basin water body which is a saline remnant of Pleistocene Lake Lahontan. Water-surface elevations, in figure 2, illustrate a decline from 1975 through 1981, an increase during 1982-84, which raised the lake level by 25 feet, a steady decline from 1986 through 1994 with slight increases from 1995-1999. Since 1999 the lake has continued to decline. The lake-surface elevation declined 2.6 feet from 3,814.0 in October 2001 to 3,811.4 feet above NGVD of 1929 the end of September 2002.

The Carson River is formed in Carson Valley by the confluence of the East Fork and West Fork Carson Rivers, with headwaters in the Sierra Nevada of California. The 2002 discharge at Carson City (station 10311000) was 54 percent of the 63-year mean. Monthly and annual mean discharges for water year 2002 and for the period of record (water years 1940-2002) at the Carson City station are shown in figure 1. Lahontan Reservoir (station 10312100), the major impoundment on the Carson River, at its highest level was 76 percent of full capacity mid June, and a low of 21 percent November 1.

The Walker River is formed in Mason Valley by the confluence of the East and West Walker Rivers; both rivers originate in the Sierra Nevada of California. The East Walker River discharge is controlled by Bridgeport Reservoir and the West Walker River by Topaz Lake. The 2002 discharge of the Walker River at Wabuska (station 10301500) was 5 percent of the 77-year mean (water years 1904, 1921-35, 1940-41, 1943, 1945-2002). The river terminates in Walker Lake (station 10288500) north of Hawthorne, which is also a saline remnant of ancient Lake Lahontan similar to Pyramid Lake. Water-surface elevations for the lake are shown in figure 2 and illustrate a steady decline from 1969 through 1981 like that of Pyramid Lake. In contrast, the high discharges in the Walker River from 1982 through 1984 raised the lake level by about 14 feet. Lake levels have steadily declined since 1986 until May 1995, and increased slightly through 1999. Since 1999 the lake has continued to decline. The lake-surface elevation decreased 4.4 feet during the 2002 water year, from 3,947.5 in October to 3,943.1 feet above NGVD of 1929 the end of September.

The Colorado River in southeastern Nevada is completely controlled by a series of impoundments that includes Hoover Dam (station 09421000) and Davis Dam (station 09422500) in Nevada. Since 1935, the mean annual discharge of the river below Hoover Dam (station 09421500) is 13,970 cubic feet per second. Mean annual discharge fluctuates on the basis of upstream supply and downstream hydroelectric-power and irrigation requirements. The 2002 mean annual discharge of the Colorado River below Hoover Dam was 104 percent of the 68-year mean (water years 1935-2002).

The Virgin River is one of the major tributaries to Lake Mead on the Colorado River and has most of its drainage area in Utah and Arizona. The discharge at Littlefield, Arizona (station 09415000), was 43 percent of the 73-year mean (water years 1930-2002).

The Muddy River is another tributary to Lake Mead. The discharge at Glendale (station 09419000) was 74 percent of the 51-year mean (water years 1951-1983, 1985-2002).

Lake Mead, since it’s most recent high elevation in December 1997 of 1214.64 feet, has now dropped 59.22 feet at the end of September, to an elevation of 1155.42 feet.

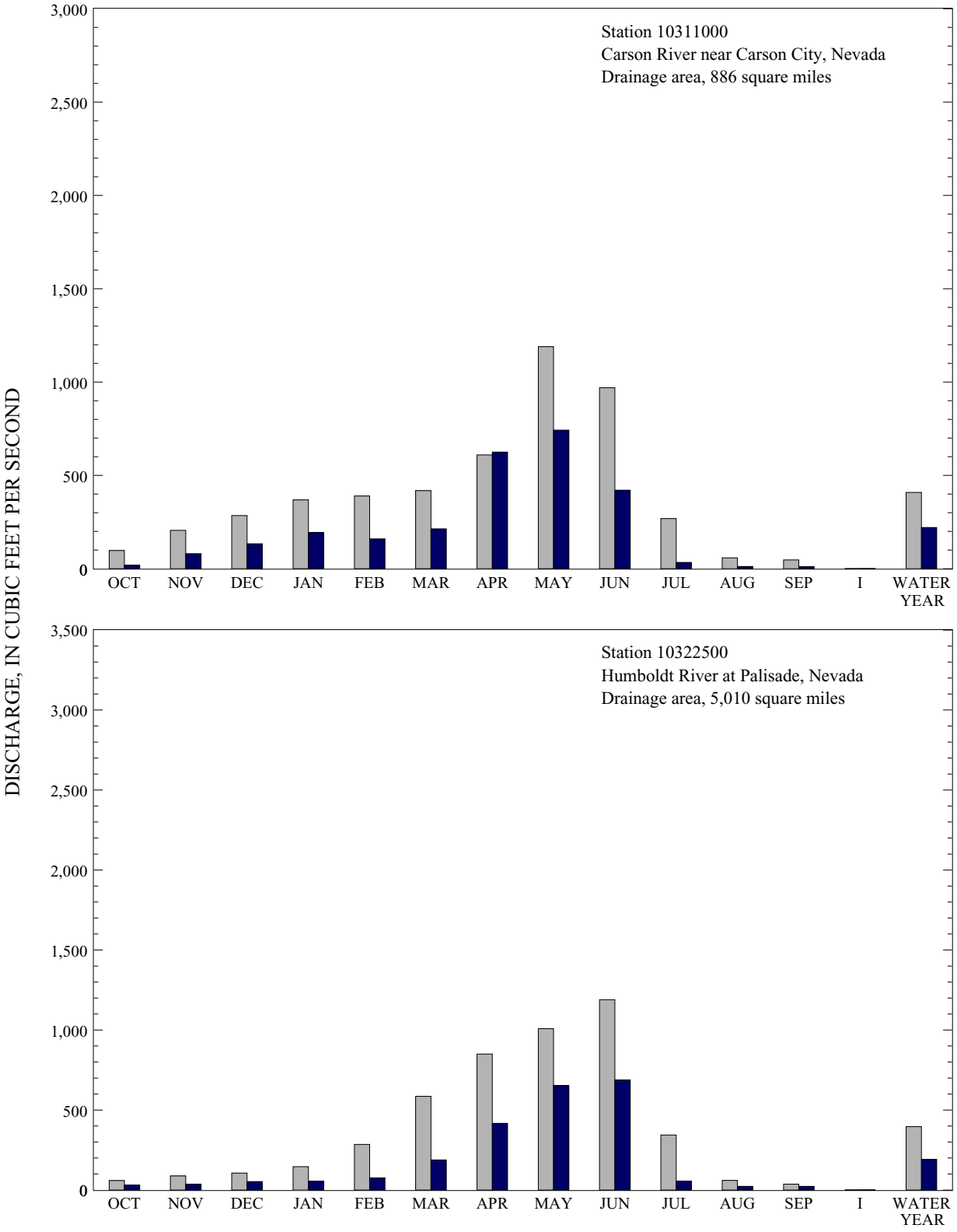


Figure 1. Comparison of discharge during water year 2002 with the long-term mean discharge at two representative gaging stations.

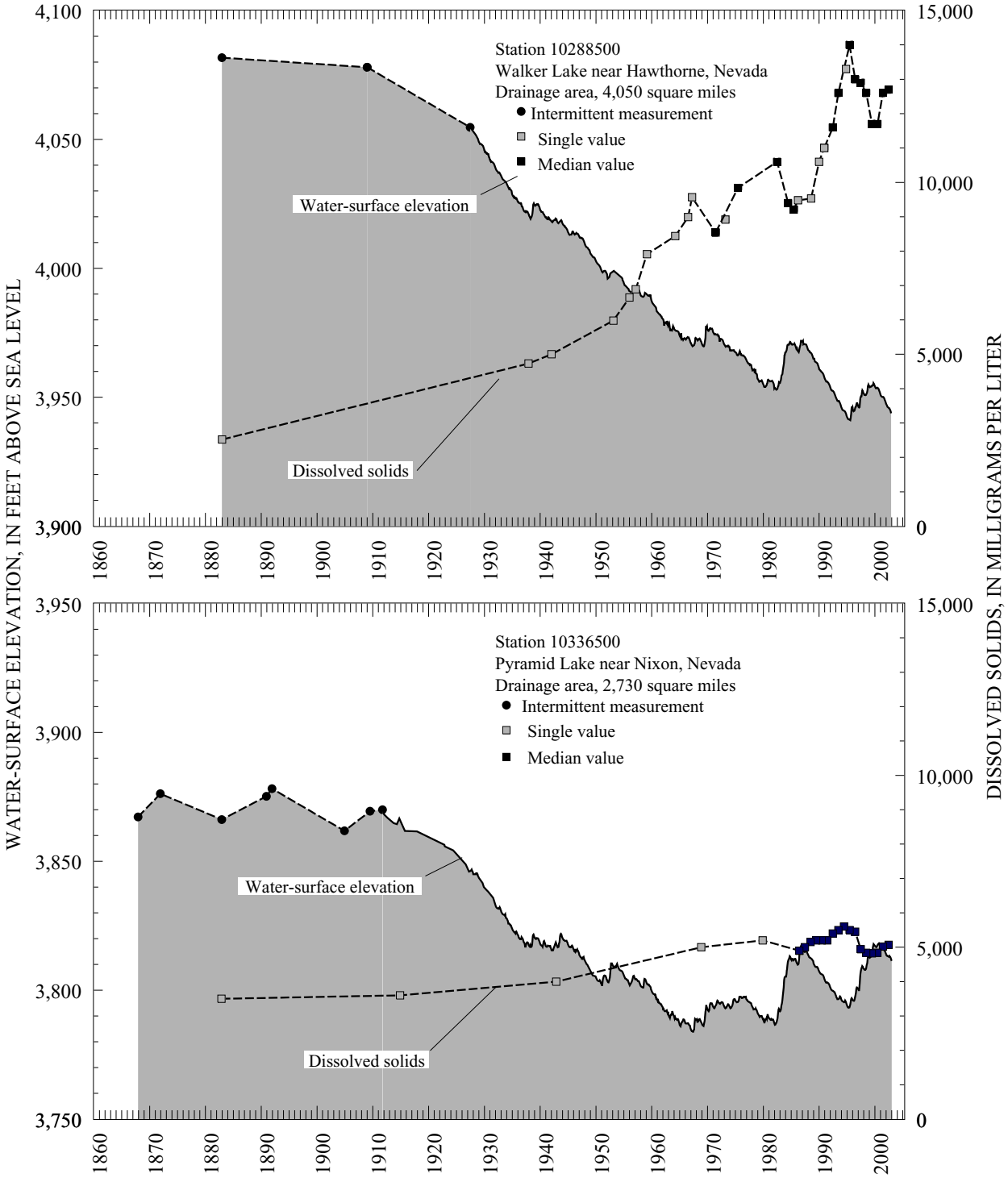


Figure 2. Water-surface elevation and dissolved-solids concentration at Walker and Pyramid Lakes (data from Desert Research Institute, Nevada Division of Wildlife, Pyramid Lake Fisheries, and U.S. Geological Survey).

Water Quality

The quality of surface water in Nevada varies greatly from place to place, as well as seasonally. Concentrations of dissolved solids generally are higher in the southern part of the state than in the northern part, and are dependent to a large extent upon water discharge. Concentrations usually are greatest during periods of low streamflow, and lowest during periods of high streamflow due to dilution by precipitation or snowmelt.

At two southern Nevada stations, Virgin River at Littlefield (station 09415000) and Colorado River below Hoover Dam (station 09421500), mean dissolved-solids concentrations for period of record were 1,990 mg/L and 692 mg/L, respectively. Mean dissolved-solids concentrations in the 2002 water year were 2,430 mg/L and 600 mg/L, respectively. Mean dissolved-solids concentrations in the 2002 water year were 122 and 87 percent, respectively, of the means for the period of record. For the Virgin River at Littlefield station, the mean discharge for the 2002 water year was 103 ft^3/s and 239 ft^3/s for the period of record. For the Colorado River below Hoover Dam station, the mean discharge for the 2002 water year was 14,510 ft^3/s and 13,970 ft^3/s for the period of record. Figure 3 shows the dissolved-solids concentrations measured at the Colorado River station since the 1971 water year. The downward trend in concentration during 1983-85 and again in 1997-2000 probably was the result of dilution by consecutive years of greater than average inflow to Lake Mead. During 1988-96 and 2001-2002, in contrast, the concentration increased, presumably because the amount of runoff from the upper basin was less than the long-term mean.

The quality of ground water in Nevada also varies greatly because of the various soil and rock types found in the state. Concentrations of dissolved solids generally are higher in the southern part of the state (latitude less than or equal to 38°00'00") than in the northern part (latitude greater than 38°00'00"), similarly to what occurs in surface water. Concentrations in the southern part of the state ranged from 5 to 102,000 mg/L with an average of 1,740 mg/L. Concentrations in the northern part of the state ranged from 10 to 94,700 mg/L with an average of 1,400 mg/L.

Ground water samples were collected from 229 wells in water year 2002. The constituents analyzed were nutrients, common ions, trace constituents, and organic substances. EPA's drinking water standards for nitrate (10 mg/L), fluoride (4.0 mg/L), and arsenic (0.01 mg/L in 2002 water year) were exceeded in 7 wells, 1 well, and 28 wells, respectively.

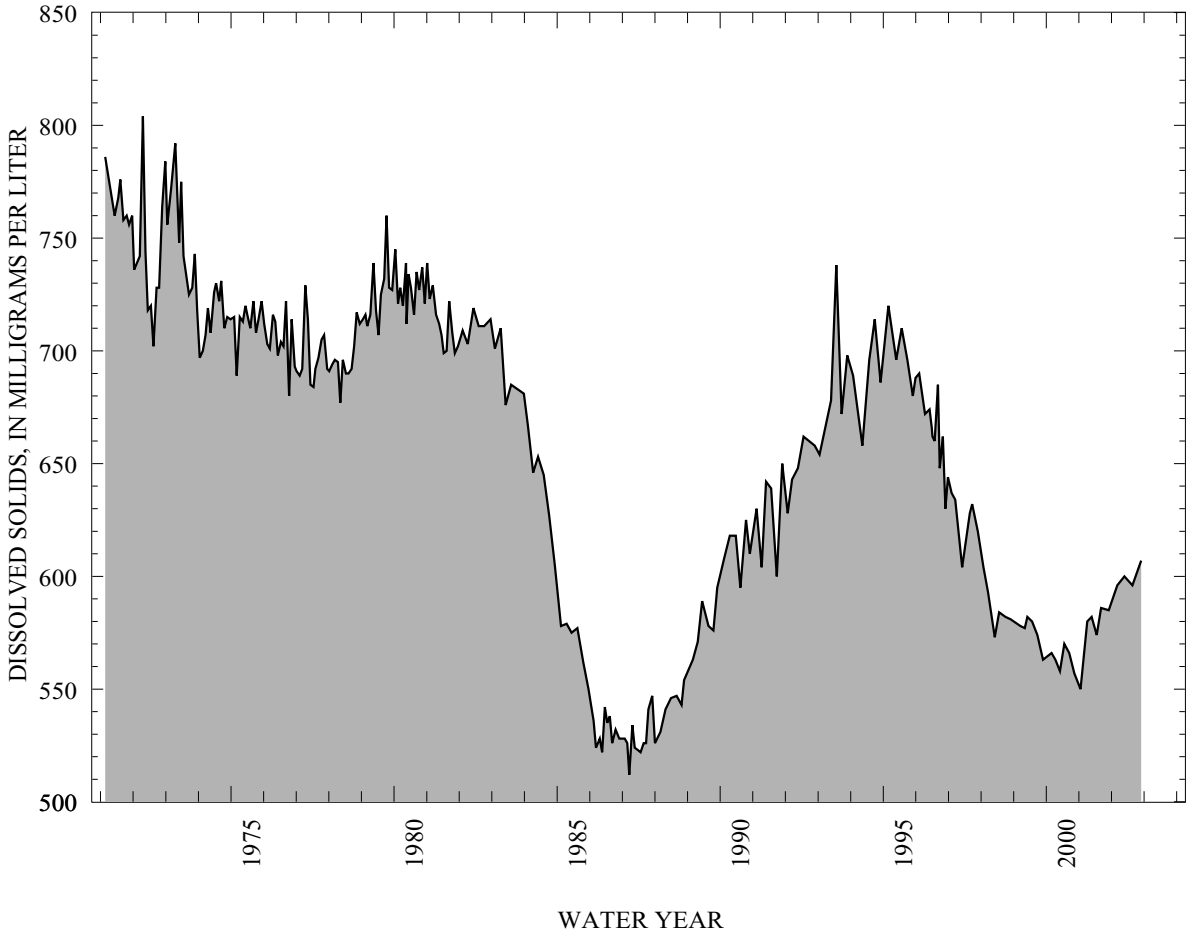


Figure 3. Dissolved-solids concentrations in the Colorado River below Hoover Dam (station 09421500) for water years 1971-2002.

Ground Water

Development of ground-water supplies in Nevada continued during water year 2002 with 1,950 Well Driller's Reports (well logs) submitted to the State Engineer's office. During 2002, 1,301 new wells were drilled and 696 existing wells were reworked or abandoned. The number of new wells drilled during water years 1971-2002 are shown on figure 4. New wells are grouped into 4 categories of proposed water use; domestic, irrigation, public supply and industrial, and other (which includes all other proposed uses). Half of the new wells were drilled for domestic use (figure 5). Most of the new wells represented in the other category were wells used for monitoring. The other category also includes wells drilled for artificial recharge, dewatering, livestock, and mining (figure 5).

Well drilling was concentrated in the northwestern and southern parts of the State. Drilling in northeastern and north-central Nevada was mainly for domestic use near the communities of Elko and Winnemucca and mainly mining and monitoring use in areas between Elko and Winnemucca. Drilling in northwestern Nevada was concentrated in and around the Reno-Lake Tahoe areas; particularly near the communities of Minden-Gardnerville, Fallon, and Reno. Drilling in southern Nevada was concentrated in and around the Las Vegas area and near the community of Pahrump. While monitor drilling was predominant in Las Vegas, domestic drilling was predominant in the outlying communities.

Nevada is almost entirely within the Great Basin Region of the Basin and Range physiographic province. The region is characterized by mountain ranges with a general north-south orientation separated by basins (valleys) that are filled by accumulations of unconsolidated to partly consolidated sedimentary deposits and underlain by consolidated rocks that also form the surrounding ranges (Stewart, 1980). Most wells have been drilled into unconsolidated basin-fill deposits. Some consolidated rocks yield substantial quantities of water, particularly in parts of eastern and southern Nevada where ground water flows through thick accumulations of limestone and dolomite. Locally, some fractured volcanic rocks also yield substantial quantities of water. Water wells, however, are not commonly drilled into consolidated rocks, because the well yields are less predictable and most present-day development is in basins where water is readily obtained from shallow depths in unconsolidated deposits.

The depths of the wells drilled in 2002 are shown in figure 6. Domestic wells were most commonly drilled to depths between 125 and 250 feet below land surface. Wells drilled for irrigation use were most commonly drilled to depths between 125 and 750 feet. Public supply and industrial wells were most commonly drilled to depths between 375 to 500 feet and 1,000 to 1,125 ft. Wells in the other category, primarily test holes, were most commonly drilled to depths between 0 and 125 feet.

Ground-water levels fluctuate seasonally and annually in response to changes in withdrawals and climatic conditions. These fluctuations can cause changes in natural recharge to and discharge from the ground-water reservoirs. Water levels generally rise from late winter to early summer, in response to (1) runoff from melting snow in the surrounding mountain ranges, particularly in the northern part of the State and (2) application of surface water for irrigation. Water levels generally decline from summer to early winter, when recharge is small and ground water is discharged by evapotranspiration, irrigation, and domestic use. Long-term climatic changes also can affect water-level trends, but the effects occur over a period of years. Superimposed on the natural fluctuations in water levels are changes caused by increasing or decreasing ground-water withdrawals.

Water-level trends for six selected observation wells are shown in figure 7. The well in Paradise Valley is close to a stream used for irrigation. The well in Eagle Valley taps aquifers used for public supply. The well in Pahrump Valley is in a basin undergoing transition from irrigation to domestic use. The well in Diamond Valley is in an area of intensive irrigation. The well in Steptoe Valley is in a relatively undeveloped basin. The well in Las Vegas Valley taps aquifers used for public supply.

The well in Paradise Valley is in the northwestern part of the basin. Water levels may fluctuate primarily in response to variations in nearby surface-water streamflow. The well probably does not reflect responses to ground-water withdrawals for agricultural irrigation in the central to southern parts of the basin.

The well in Eagle Valley is in the northern part of the basin north of Carson City. Water levels in the new Eagle Valley well may reflect responses to ground-water withdrawals for municipal use.

The well in Pahrump Valley is in the west-central part of the basin. Ground-water use has changed from historically agricultural to residential because Pahrump has become a bedroom community for Las Vegas. Water levels may reflect this transition.

The well in Diamond Valley is in the southern part of the basin in a farming area. Water levels may reflect responses to ground-water withdrawals for agricultural irrigation.

The well in Steptoe Valley is in the central part of the basin. Water levels may respond primarily to fluctuations in climatic conditions.

The well in Las Vegas Valley is in the northwestern part of the basin northwest of Las Vegas. Las Vegas has undergone a tremendous population increase and surface-water imports from Lake Mead have exceeded ground-water withdrawals since 1975. Water levels may reflect responses to ground-water withdrawals for municipal and commercial use.

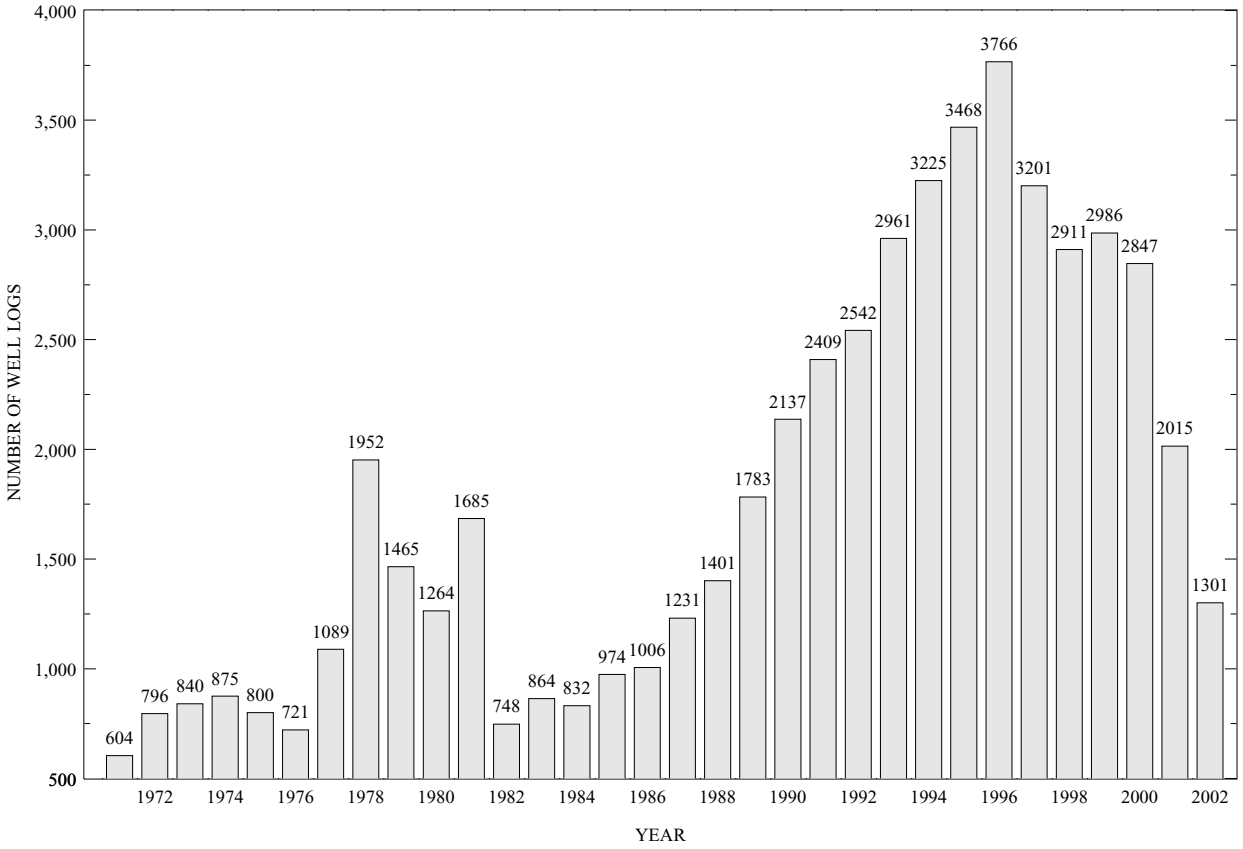


Figure 4. Number of new wells drilled based on number submitted to the Nevada State Engineer's Office during water years 1971-2002.

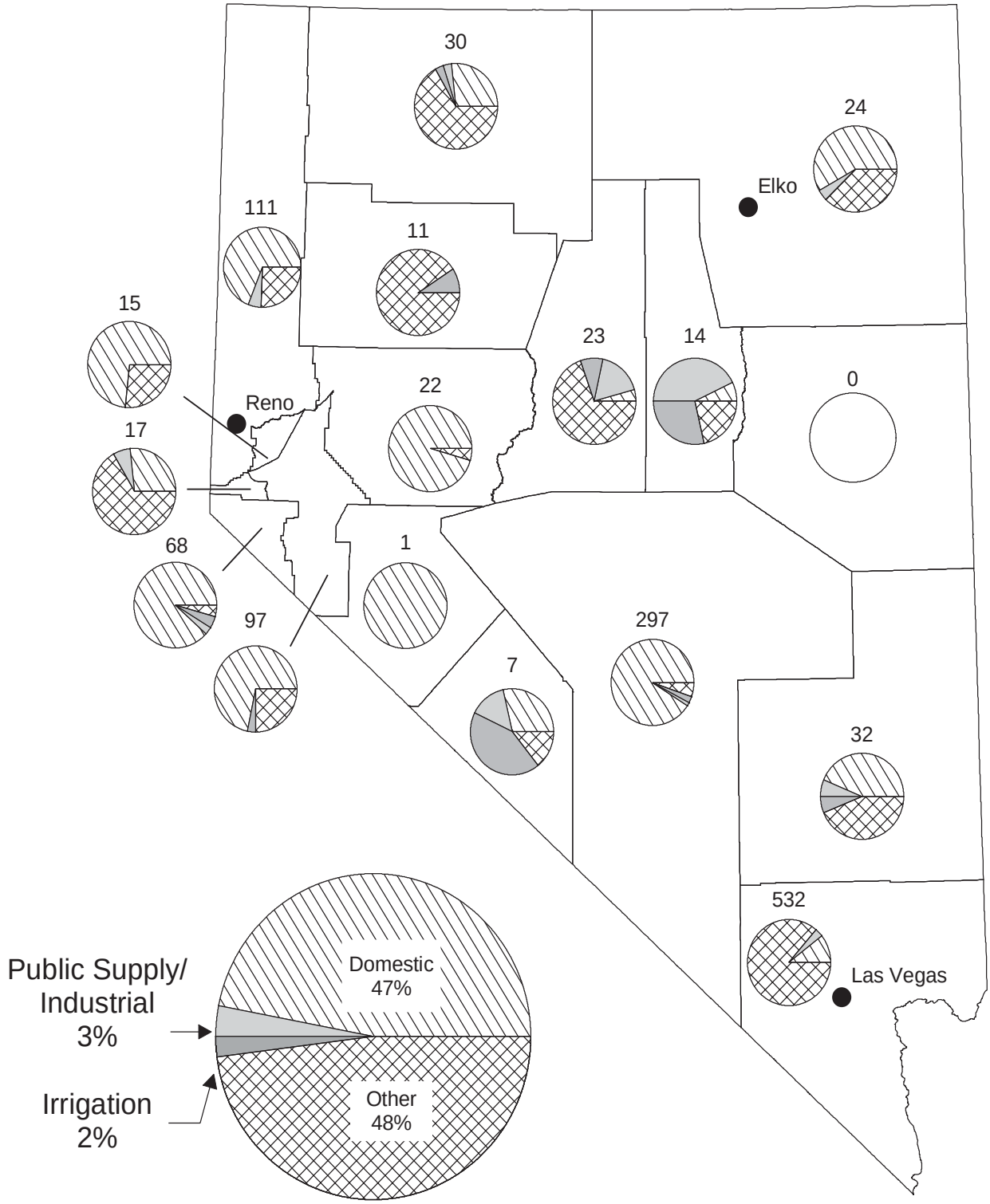


Figure 5. Distribution, by county, of the number of wells drilled during the water year 2002, on the basis of 1,301 logs submitted to the Nevada State Engineer's office. The category "other" includes mostly exploration wells. Above each county symbol is the number of logs submitted during 2002.

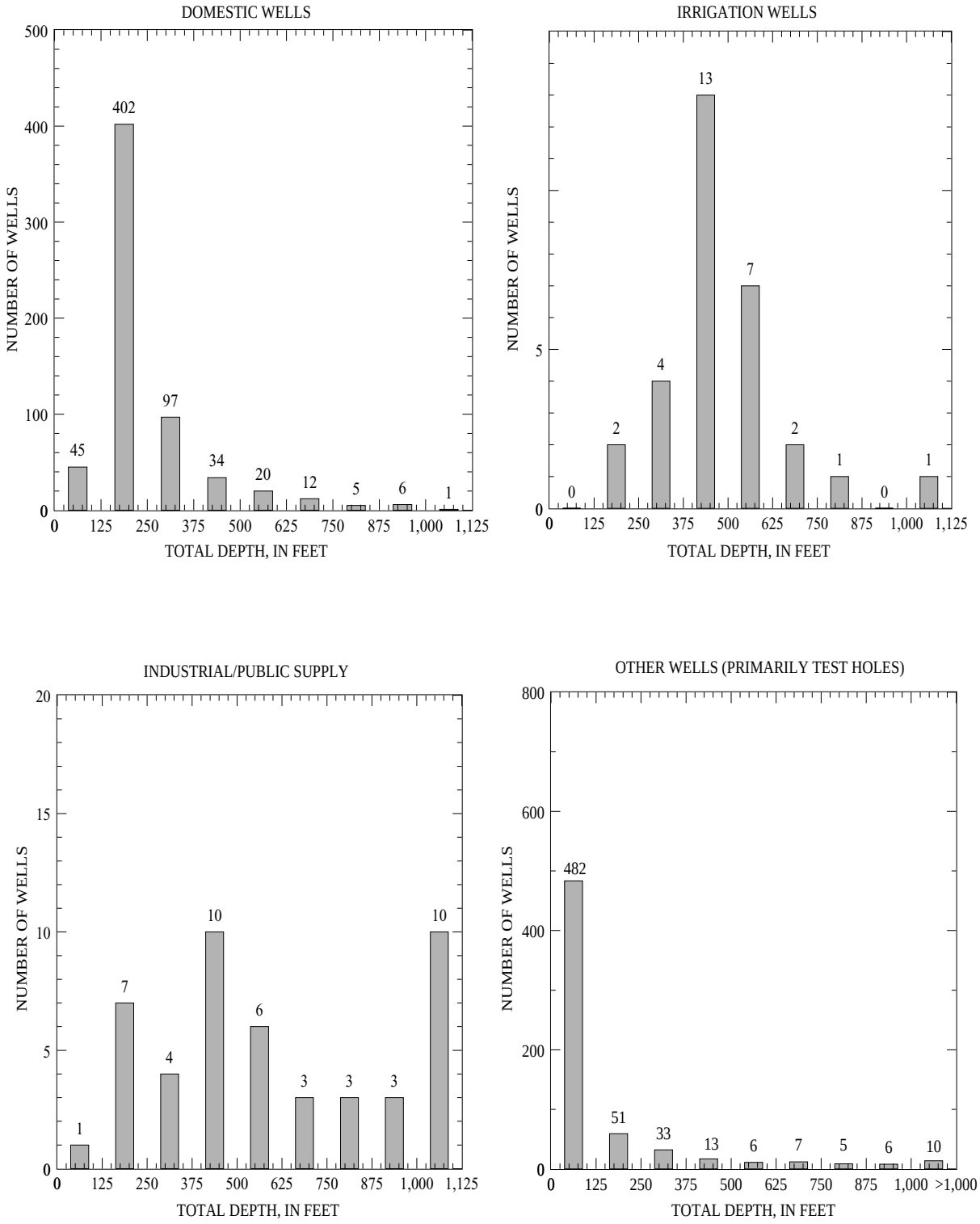


Figure 6. Depths of wells drilled during the 2002 water year for domestic, irrigation, public-supply and industrial, and other uses. The category 'other' does not include test holes drilled for geothermal exploration.

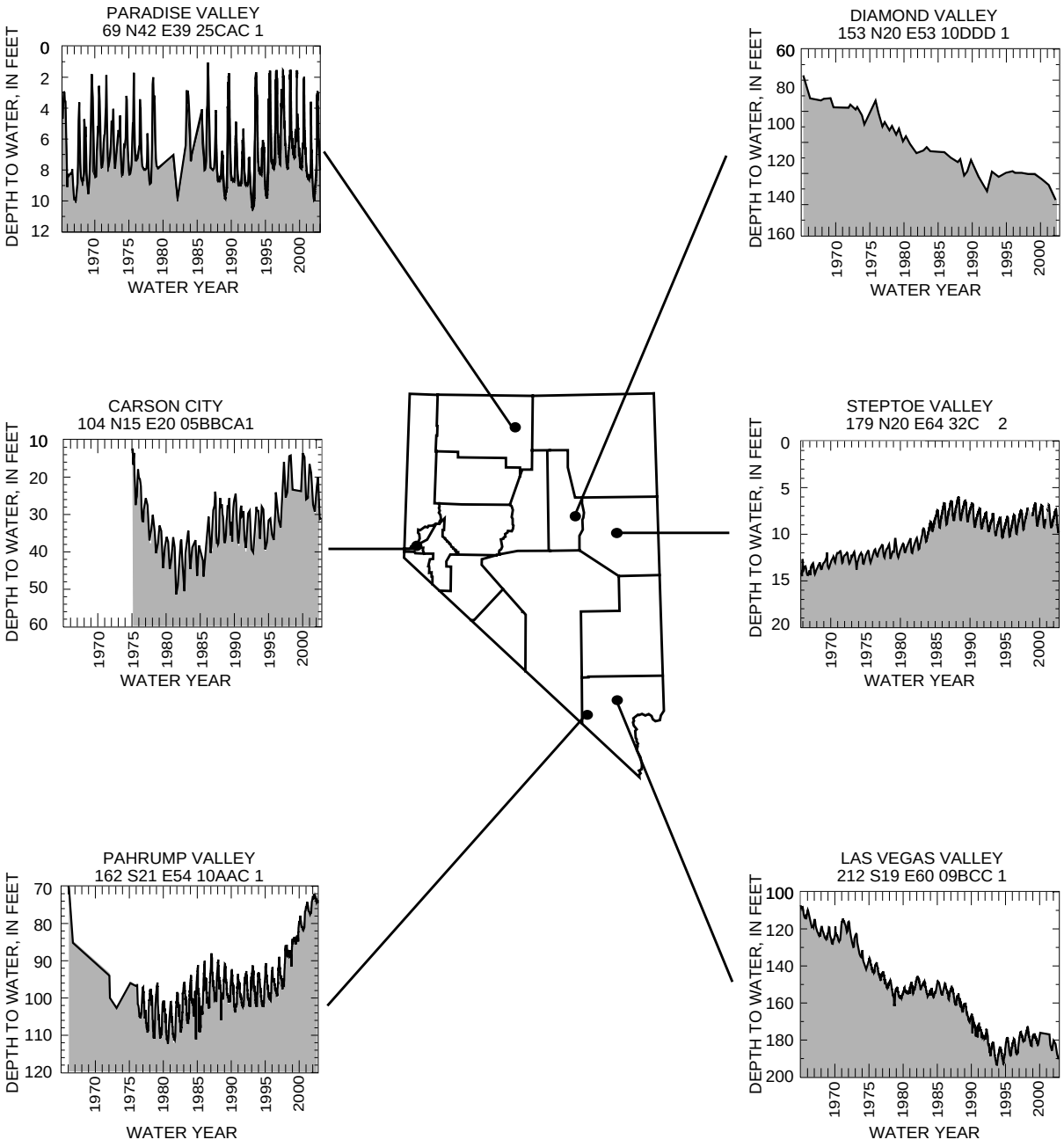


Figure 7. Long-term water-level depths below land surface in six selected observation wells.

Water Use

Since 1986, Nevada has been the nation's fastest growing state (U.S. Bureau of the Census, 2002b). From April 1, 2000 to July 1, 2002, Nevada's population has increased by 8.8 percent (U.S. Bureau of the Census, 2002a) and was estimated to be about 2,173,000 people (U.S. Bureau of Census, 2002a). In second place was Arizona with a 6.4 percent increase in population during this same period, and the United States population increased by 2.5 percent (U.S. Bureau of the Census, 2002a). The fastest growing U.S. city, in 1999, with a population greater than 10,000 people was Mesquite, Nevada, which grew by nearly 488 percent, from 1,873 people in 1990 to 11,012 people in 1999 (U.S. Bureau of the Census, 2000a).The fastest growing U.S. cities, in 1999, with populations over 100,000 were Henderson in first place, which grew by 155 percent between 1990 and 1999 to 166,399 people; and North Las Vegas in second place, which grew by 112 percent during the same 9 years to 101,841 people (U.S. Bureau of the Census, 2000b). The fastest growing metropolitan area in 1999, by rate of growth, was the Las Vegas area (Clark County, Nevada and Mohave County, Arizona), which grew by 62 percent between 1990 and 1999 to 1,381,086 people (U.S. Bureau of the Census, 2000c).

Statewide, Nevada's annual precipitation averages about 9 inches--the lowest of any State in the Nation. Spatially, average precipitation ranges from 4 inches in some low-altitude valleys to about 16 inches in higher altitude areas; locally in the higher mountains, precipitation exceeds 30 inches.

Water year 2002 (October 1, 2001-September 30, 2002) was a below normal year for precipitation for Nevada. This was the third year in a row that snow pack conditions were below normal in western Nevada (National Weather Service, 2003a), and 2002 was the sixth driest year in Las Vegas, since record keeping began in 1932 (National Weather Service, 2003b). Precipitation at six selected sites in Nevada during water year 2002, as reported by the National Weather Service, ranged from 28 percent to 95 percent of the median value. The following table summarizes the data.

Precipitation

Weather station	Water year 2001 (inches)	Median water years 1962-92	Departure from median (inches)	Percentage of median
Elko	8.90	9.43	-0.53	94
Ely	4.69	9.83	-5.14	48
Las Vegas	1.13	4.07	-2.94	28
Reno	6.50	6.84	-0.34	95
Tonopah	1.70	5.62	-3.92	30
Winnemucca	6.26	8.15	-1.89	77

Irrigation is the largest use of water in Nevada. In a normal year, surface water is the source for about 60 percent of Nevada's water withdrawals. Some surface water right holders also have supplemental ground water rights, which can be used when surface water is not available for their use. In 2002, streamflows were below or near normal, in the major irrigation areas that rely on surface water.

Public supply is the second largest use of water in Nevada. The primary source of public-supply water for Las Vegas and Reno is surface water; for Carson City, it is ground water. The rate of increase in public-supply withdrawals nearly parallels the rapid growth in the State's population. In 1998, over 85 percent of Nevadans lived in urban areas (2,500 people or more). The three largest population centers in the State are the Las Vegas, Reno, and Carson City areas. In 2002, over 80 percent of the State's population lived in these three areas (Nevada State Demographer, 2002). The amount of water withdrawn by the principal public-supply utilities servicing each of these areas for the period from October 1992 (water year 1993) to September 2002 (water year 2002) is shown in figure 8. In 2000, these three areas accounted for about 80 percent of all the water withdrawn by public-supply utilities in the State. The small peak for the January billing period, seen on the plots for Reno and Carson City for some years, indicates, in part, increased water use by tourists during the Christmas and New Year's holidays. The lower spring and summer water use seen in the Reno and Carson City areas during the early 1990's was due in large part to regional drought conditions and the heightened awareness and enforcement of water conservation.

In the Las Vegas area (which encompasses the cities of Las Vegas, North Las Vegas, Henderson and Nellis Air Force Base), the Colorado River is the principal source of public-supply water. The Las Vegas area is dependent on the Colorado River to meet its public-supply water needs. During 2002, Nevada used its entire 300,000 acre-feet allotment from the Colorado River, years before water officials expected that to happen (Reno Gazette-Journal, 2003). In 1974, surface- and ground-water withdrawals were about equal; in 2002, surface-water was the source for nearly 88 percent of the area's public-supply withdrawals (Southern Nevada Water Authority, 2003a). About 65 percent of the water used in Las Vegas is for residential use, and about 7 percent is used by hotels and motels (Southern Nevada Water Authority, 2003b). Of the total residential use, about 75 percent is used outdoor landscaping (Southern Nevada Water Authority, 2003b). Among the water-conservation measures taken in the Las Vegas area: No outside watering is permitted from Noon to 7 p.m., limits on the amount of turf, rebates for reducing the amount of turf (Las Vegas Valley Water District, 2003). Clark County now requires all new golf courses and nearby landscape areas to utilize reclaimed wastewater. Also some communities in the area prohibit man-made lakes, have placed restrictions on the size of outside decorative water displays at resort hotels, and have placed restrictions on the percentage of turf that can be used at commercial, industrial, and multifamily developments. In 2000, Las Vegas Valley Water District estimated that conservation measures saved 16.5 percent—29.5 billion gallons (Southern Nevada Water Authority, 2003b).

Two water purveyors in the Las Vegas area are doing artificial recharge. From 1987 through 2002, about 260,000 acre feet of treated Colorado River water has been injected into the Las Vegas Valley groundwater basin (Coache, 2003). Artificial recharge is being done for several reasons, two of these are: to help meet summer peak demands and to stabilize declining ground-water levels. About 4,000 acre-feet of the injected water has been recovered to meet water demands (Southern Nevada Water Authority, 2001).

In the Reno area (which encompasses the cities of Reno and Sparks), the Truckee River supplied about 82 percent of the community's public-supply water in 2002. During years of high or surplus flows in Truckee River, the principal water purveyor follows a conjunctive use agreement to reduce its groundwater withdrawals, thus allowing groundwater storage to increase. Conservation measures enforced in the Reno area limit outside watering to twice a week; washing down hard surfaces is prohibited; and decorative water displays are turned off.

In 2002, ground water was the source for about 70 percent of Carson City's public-supply water, about 13 percent of the City's water was from the Carson River and the remaining 17 percent was from other surface water sources. The amount of water that Carson City gets from surface water sources is increasing. City ordinance limits outside watering to every other day from June through September, with no watering between 10 a.m. and 7 p.m. This is done to reduce peak demand and not to limit water use. Wasting water and washing driveways is also prohibited.

The Nevada Test Site (NTS) is 60 miles northwest of Las Vegas. From 1950 until the ban on nuclear weapons testing in 1992, the NTS was the primary continental site for the testing of nuclear weapons. Ground water is the source of all water used at the NTS. With the ceasing of weapons testing and the related decline in personnel, water withdrawals have declined nearly 80 percent since 1989 (figure 9). Monthly pumpage for water year 2002 from the 14 production wells on the NTS is shown in figure 10.

Highlights of Nevada water news were on April 9, 2002, when the Nevada State Engineer did not extend temporary permits that allowed the Yucca Mountain Project to withdraw 140,000,000 gallons per year from 5 wells (Las Vegas Review-Journal, 2002a). President Bush has selected Yucca Mountain as the nation's high-level nuclear waste repository (U.S. Department of Energy, 2003). On June 11, 2002, the U.S. District Court denied a Department of Justice request for an injunction aimed at forcing the State of Nevada to extend the temporary permits (Las Vegas Review-Journal, 2002 b).

All potable water was shut off to Carson High School from April 23 through April 29, when traces of antifreeze and other chemicals were discovered in the drinking supply due to a valve failure (Nevada Appeal, 2003).

Elko's summer water conservation program limits outdoor watering to 3 days a week based on address number, this is the third year that Elko has used a mandatory watering plan (Elko Daily Free Press, 2002). Elko has a population of 16,690 people and its water needs are supplied by 18 wells.

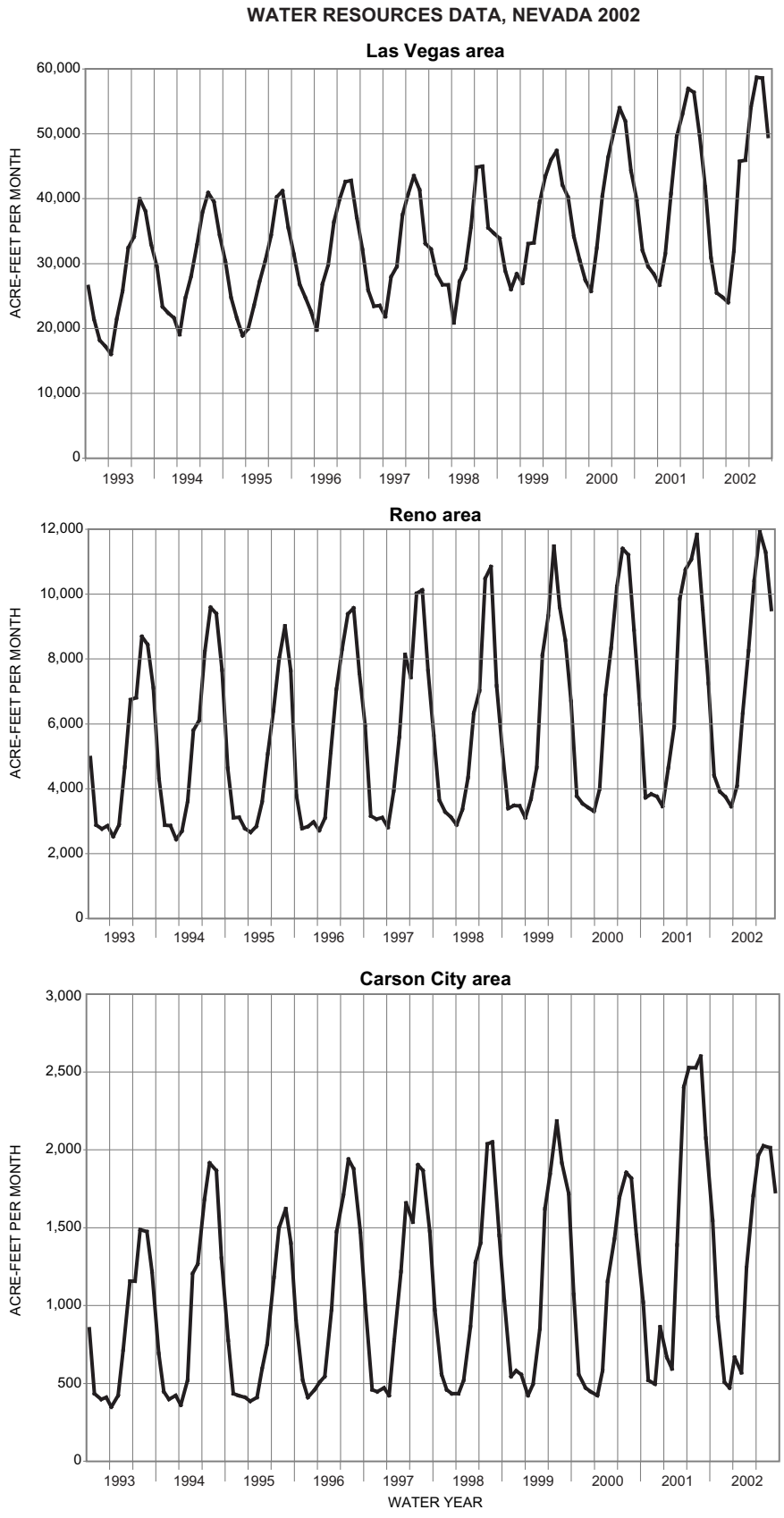


Figure 8. Monthly water withdrawals for public supply in the Las Vegas, Reno, and Carson City areas, water years 1993-2002. Source of data: Nevada Division of Water Resources.

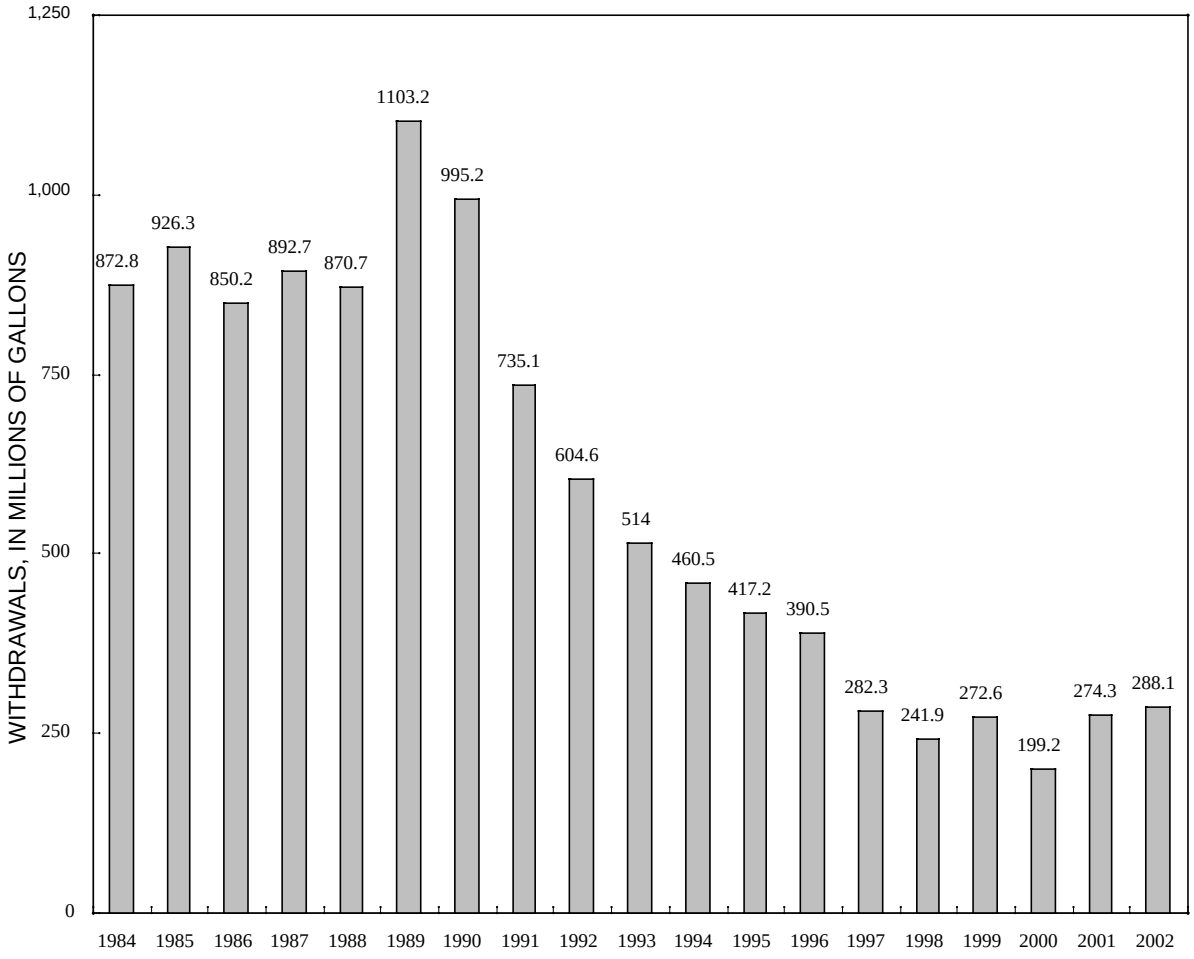


Figure 9. Total ground-water withdrawals from wells at the Nevada Test Site during water years 1984-2002.

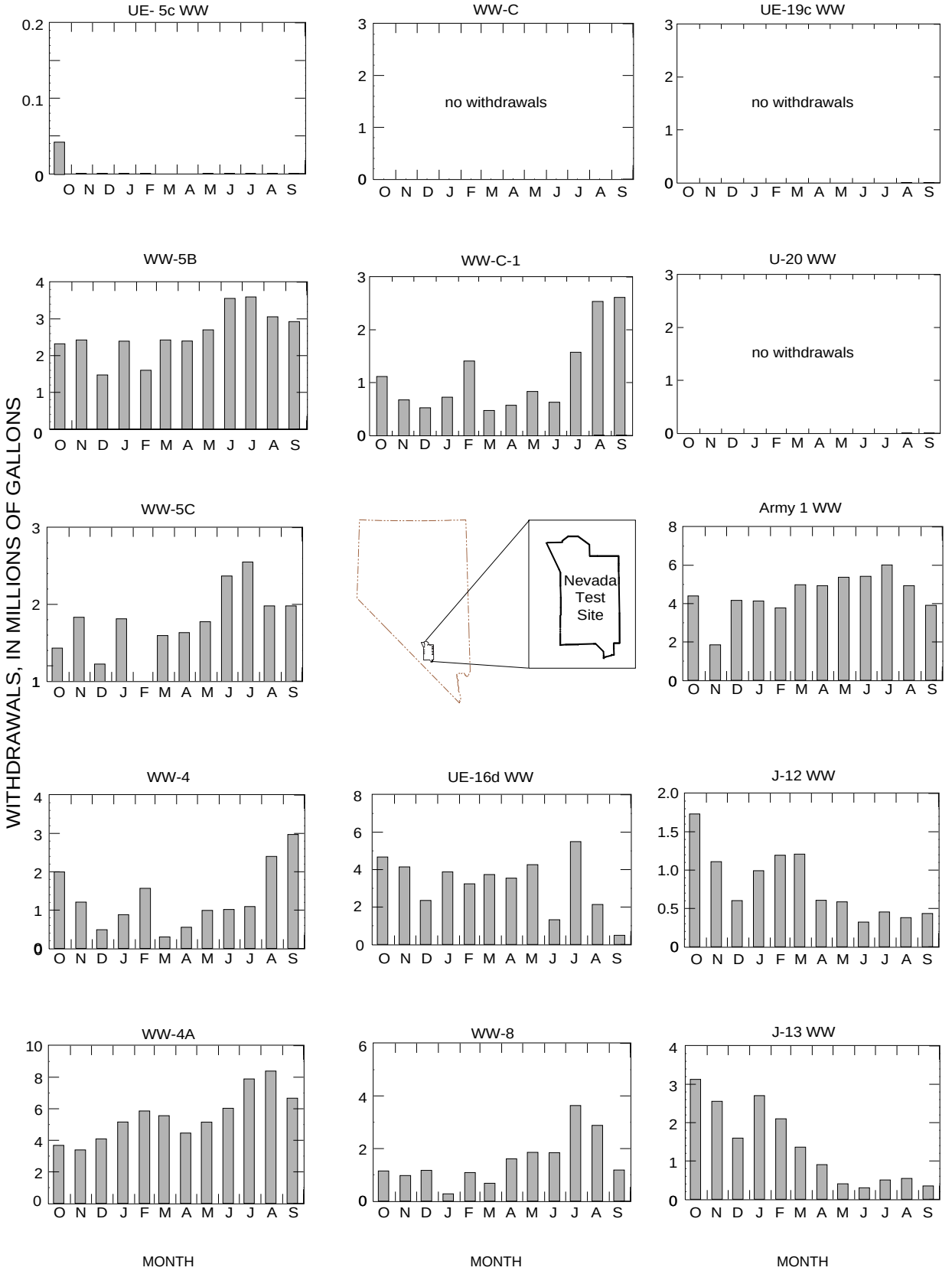


Figure 10. Total ground-water withdrawals from production wells at the Nevada Test Site during water year 2002.

SPECIAL NETWORKS AND PROJECTS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at:

http://water.usgs.gov/hbn/

There are 2 sites in Nevada that are part of the hydrologic benchmark network, these are: Steptoe Creek near Ely, Nevada (10244950) and South Twin River near Round Mountain, Nevada (10249300).

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program can be found at:

http://water.usgs.gov/nasqan/

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 225 precipitation chemistry monitoring sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as all data from the individual sites, can be found at:

http://bqs.usgs.gov/acidrain/

There are 3 active and 1 inactive NADP/NTN sites in Nevada.

National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at

http://water.usgs.gov/nawqa/

The Nevada Basin and Range (NVBR) NAWQA, which includes the Las Vegas Valley area and the Carson and Truckee River basins, began in 1991. Data on physical, chemical, and biological properties of surface- and ground-water resources in the NVBR study unit will be combined with data from over 50 other river basins and aquifer systems to represent water-quality conditions in resources that provide more than 60 percent of the Nation's public supplies.Additional information about the NVBR NAWQA Program can be found at

http://nevada.usgs.gov/nawqa/

Amargosa Desert Study in Southern Nevada is a part of the USGS Toxics Program and consists of ground-water sites where data is collected to establish background information.

Aquifer Vulnerability Project will evaluate the susceptibility and vulnerability of ground water to anthropogenic contamination throughout Nevada. Existing water-quality data and information on variables that could be related to water quality (e.g. land use, depth to ground water) are being compiled from many sources and input to a database and geographic information system (GIS).

Carbonate Rock Study Area consists of recording wells, intermittent and quarterly measurements at wells, spring and fall discharge measurements at springs, and bulk precipitation readings at high-elevation sites.

Carson River Mercury Study consists of streamflow sites where depth/width integrated water samples for total and dissolved mercury, total and dissolved methylmercury, and suspended sediment are collected for determination of loads into and out of Lake Lahontan.

Cold Creek Monitoring Project consists of ground-water quality and ground-water level data collected in the Cold Creek watershed as part of a cooperative study with El Dorado County Department of Transportation and California Tahoe Conservancy. The purpose of the study is to assess effects of urban runoff into a detention basin adjacent to Cold Creek.

Dayton Valley consists of water-level measurements at wells, and bulk precipitation readings at sites.

Douglas County Network consists of sites for miscellaneous streamflow measurements, wells for water-level measurements, and ground water water-quality sites where data are routinely collected, principally in Carson Valley, western Nevada. The data will be used to establish background information to determine if changes in water quantity or quality occurs.

Fallon Basalt Aquifer Monitoring consists of groundwater sites where water-quality samples are taken from municipal supply wells to detect long term chloride and arsenic concentrations of pumped ground-water, and streamflow sites where samples are collected to determine changes in stable-isotope composition.

Humboldt River Basin Study consists of stream-gaging stations, and additional streamflow sites where samples were collected for inorganic chemical analyses.

Lake Tahoe Interagency Monitoring Program is a network of surface-water sites where streamflow and water-quality data are routinely collected around Lake Tahoe and ground-water sites monitored for nutrients. The surface-water data will be used to provide a long-term data base of streamflow and of sediment and nutrient loadings from major tributaries to Lake Tahoe

Lake Tahoe Basin Organics Study in Lake Tahoe and other Lower Echo Lake (Nevada and California) consists of lake sites where water samples were taken and analyzed for MTBE and other gasoline components. The data will be used to determine the effectiveness of the prohibition of carbureted 2-stroke engines in the Lake Tahoe Basin.

Nevada Test Site and Adjacent Areas Monitoring Project collects and compiles hydrogeologic data to aid in characterizing local and regional ground-water flow systems underlying the Nevada Test Site and vicinity. This work is done in cooperation with the U.S. Department of Energy as part of their Environmental Restoration and Hydrologic Resources Management Programs. Specific activities include the collection of water-level, water-use, evapotranspiration, and discharge data. Periodic and continuous water-level measurements are collected from wells and test holes at and adjacent to the Nevada Test Site. Measurements provide information defining short- and long-term water-level fluctuations. Water-use data are compiled for most water-supply wells at the Nevada Test Site. Continuous water-use data are collected at selected well sites. Evapotranspiration and discharge data are collected at Ash Meadows National Wildlife Refuge and Oasis Valley.

Newlands Shallow Aquifer Monitoring Project consists of wells for water-level measurements and ground water water-quality sites in Churchill County, Nevada where data are collected to monitor changes in water levels and water quality caused by changes in land use.

Ruby Valley study is a six-year project to develop an annual water budget for the Ruby Valley Hydrographic Area. The study is planned to take place in 2 phases with each phase lasting 3 years. Phase 1 (1999-2001) is designed to provide information on annual evapotranspiration from the most biologically important habitats within the Ruby Lake Wildlife Refuge. During Phase 2 (2002-2004), an annual water budget will be developed that incorporates all estimates of inflow and outflow to the basin-fill aquifer system on an annual basis.

Trout Creek Watershed Project consists of water-level data collected in the Trout Creek watershed as part of a cooperative study with the Tahoe Regional Planning Agency. The purpose of the study is to provide data on interactions between surface water and ground water along Trout Creek.

Virgin River Basin Project in Southern Nevada consists of streamflow sites to characterize the hydraulics and water quality of the basin. The data will be used to provide a long-term data base of chemical loading to Lake Mead.

Yucca Mountain Ground-Water Monitoring Project includes periodic measurements made throughout the Yucca Mountain Area to support environmental and regulatory aspects of the Yucca Mountain Project. Discharge and water-level measurements are made at selected springs and wells. Data presented do not include data collected as part of the Site-Characterization Program nor continual records developed from pressure-sensor data. The data included have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2002 water year that began October 1, 2001, and ended September 30, 2002. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 11-37. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether stream site or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The “downstream order” system is used for regular surface-water stations and the “latitude-longitude” system is used for wells and, in Nevada, for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in the list of gaging stations. Each indention represents one rank. This downstream order and system of indention show (1) which stations are on tributaries between any two stations and (2) the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete number for each station, such as 10351700, which appears just to the left of the station name, includes the 2-digit part number (10) plus the 6-8-digit downstream-order number (351700). In this report, the records are listed in downstream order by parts. The part number refers to an area the boundaries of which coincide with certain natural drainage lines. Records in this report are for sites in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description.

Local Site Numbers

Local site numbers used in Nevada locate ground-water data sites (wells or springs) by hydrographic areas and by the official rectangular subdivision of the public lands with reference to the Mt. Diablo base line and meridian. Nevada has been divided into 14 hydrographic regions or major basins and 256 individual hydrographic areas or valleys. The classification is used to compile information pertaining to water resources in Nevada. The local site number uses as many as 19 digits to locate the site by hydrographic area, township, range, section, and section subdivision.

The first segment of the local site number specifies the hydrographic area as defined by Rush (1968). The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and the subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as three times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. Lettered quadrants are read from left to right, with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. As an example, a well in Fallon (Carson Desert, hydrographic area 101) located within the $SE^1/_4NE^1/_4NW^1/_4SW^1/_4$ section 6, Township 19 North, Range 28 East, would have the number 101 N19 E28 6CBAD1. A second well within the same 2.5-acre tract would be numbered 101 N19 E28 6CBAD2.

Prior to January 1976, local site numbers in Nevada were published according to the following general format: 19/28-36aabc1. The first number was the township north of the base line (if the township was south of the base line, the first number was followed by an “S”). The second number was the range east of the meridian, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence as defined above.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as “daily stations.”

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as “Crest-stage partial records,” or “Low-flow partial records.” Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relations between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relation between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with digital recorders, data collection platforms, or data loggers that sample stage values at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relation of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last

survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relations much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, “Data Presentation” (REMARKS paragraph) and “Identifying Estimated Daily Discharge.”

Data Presentation

Streamflow data in this report are presented in a format that is different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under several headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the different headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available differs from one drainage basin to another, the accuracy of drainage areas likewise differs. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: “(M)” means that only the instantaneous maximum discharge was revised; “(m)” that only the instantaneous minimum was revised; and “(P)” that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, “Identifying Estimated Daily Discharge.”) If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph also is used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by humans. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a “Revised Records” entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data are always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the “Remarks” and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Data table of daily mean values

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____-____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, "WATER YEARS ____-____," will consist of all the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Reported occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are given also. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the different line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

MAXIMUM PEAK FLOW.-- The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.-- The maximum instantaneous peak stage occurringfor the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in a table of annual maximum stage and discharge at crest-stage stations. The table of crest-stage stations is followed by a listing of

discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication—such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables—is on file in the Nevada District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 17, 18, 24, 29 and 33.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the location of the water quality site differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in a table following the tables of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All these references are listed under "TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY" that appears at the end of the introductory text. These methods are consistent with ASTM standards and generally follow ISO standards. Detailed information on collecting, treating, and shipping samples may be obtained from the Nevada District Office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Specific Conductance

For chemical-quality stations equipped with digital monitors or data loggers, the records consist of daily maximum, minimum, and mean specific conductance values measured and are based upon hourly or more frequent punches beginning at 0015 hours and ending at 2400 hours for the day of record.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams normally have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum, minimum, and mean temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the Nevada District Office.

Laboratory Measurements

Samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Lakewood, Colo. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chap A1, A3, and A4. These methods are consistent with ASTM standards and generally follow ISO standards.

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MBAS determinations made from January 1, 1970, through August 29, 1993, at the National Water-Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected on the basis of the following equation, if concentrations of dissolved nitrate plus nitrite, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

MBASCOR = M - 0.0088N - 0.00019C

where:

MBASCOR = corrected MBAS concentration, in mg/L;

M = reported MBAS concentration, in mg/L;

N = dissolved nitrate plus nitrite, as nitrogen, concentration, in mg/L; and

C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L. A detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970, through August 29, 1993.

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Long-Term Method Detection Levels and Laboratory Reporting Levels

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDL's) and laboratory reporting levels (LRL's). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. The chance of falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent of less.

Accordingly, concentrations are reported as <LRL for samples in which the analyte was either not detected or did not pass identification. Analytes that are detected at concentrations between the LT-MDL and LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E". These data should be used with the understanding that their uncertainty is greater than that of data reported without the "E" remark code.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the different headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in a table following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Samples where the dissolved concentration of a constituent (which is theoretically less than or equal to the total concentration) exceeds the respective total, may be due to unavoidable errors associated with subsampling and sample processing, or limitations on precision and accuracy of the analytical procedure.

Records of Ground-Water Levels

Data from the basic Statewide network of primary and secondary observation wells are published herein. Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local well number. (See the section titled "Station Identification Numbers.")

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by hydrographic area arranged in ascending order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table. The secondary identification number is the local well number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel or electric tape; or from continuos records of stage using digital recorders, data collection platforms, or data loggers. The water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the different headings.

WELL NUMBER.--This entry reports the 15-digit site identification number and the local well number previously mentioned and explained more completely in the section entitled, “Station Identification Numbers” under the headings, “Latitude-Longitude system” and “Local Site Numbers”.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

INSTRUMENTATION.--This paragraph provides information on the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words “to current year” if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level. A hydrograph for a selected period of record may follow the water-level table.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" section in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published with projects and any corresponding ground-water-level records. Data for quality of ground water are listed numerically by hydrographic basin and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collect in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Canister blank - blank water placed into a storage canister for VOC sampler and subsequently placed into sample container; operations are preformed in a clean environment.

Source Solution blank - blank water placed directly in the sample container, but in a clean environment.

Ambient blank - blank water placed directly in the sample container in the same environment as the environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Concurrent sample - taken at same time as environmental sample.

Grab-D - grab sample, dipped at centroid of flow.

Grab-I - vertically integrated sample at center of channel.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gage stations through the world wide web (WWW). These data may be accessed at

http://water.usgs.gov/nv/nwis/nwis

In addition, data can be provided in various machine-readable formats on compact discs, electronic files, or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from the Water Resources Division District Office (See address on the back of the title page).

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of poly-chlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bedload is material in transport that is supported primarily by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to an elevation equal to the top of the bedload sampler nozzle (ranging from 0.25 to 0.5 foot) that are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved solids content of the pore water and lithology and porosity of the rock.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere 4/3 pr3 cone 1/3 pr2h cylinder pr2h.
pi (p) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (mm3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable bound-aries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables are numerically equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily-record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to periodic sample or data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data are usually downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\overline{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n} ,$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 ˚C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria are commonly found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that are generally considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli *(E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 ˚C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) concentration value is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an 'E' code will be reported with the value. If the analyte is qualitatively identified as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an 'E' code even

though the measured value is greater than the MDL. A value reported with an 'E' code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat are typically made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where *n* is the number of individuals of each taxon, *a* is the tolerance value of each taxon, and *N* is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) is generally equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. [Note: In several previous NWQL documents (NWQL Technical Memorandum 98.07, 1998), the LRL was called the nondetection value or NDV—a term that is no longer used.]

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda l},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations**,** it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed “acidic,” and solutions with a pH greater than 7.0 are termed “basic.” Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also “Plankton”)

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of pre-cipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 C;expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 C.Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is defined operationally as the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended mate-rial collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Suspended solids, total residue at 105 ˚C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydro-logic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light.

Currently approved methods for the measurement of turbidity in the USGS include those that conform to U.S. EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of pathlength of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also "Biomass" and "Dry mass")

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also "Dry weight")

WSP is used as an acronym for "Water-Supply Paper" in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also "Plankton")

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TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals titled the "Techniques of Water-Resources Investigations" that describe procedures for planning and conducting specialized work in water-resources investigations. The material in these manuals is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. Each chapter then is limited to a narrow field of the section subject matter. This publication format permits flexibility when revision or printing is required.

Manuals in the Techniques of Water-Resources Investigations series, which are listed below, are available online at http://water.usgs.gov/pubs/twri/. Printed copies are available for sale from the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (an authorized agent of the Superintendent of Documents, Government Printing Office). Please telephone "1-888-ASK-USGS" for current prices, and refer to the title, book number, section number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Other products can be viewed online at http://www.usgs.gov/sales.html, or ordered by telephone or by FAX to (303)236-4693. Order forms for FAX requests are available online at http://mac.usgs.gov/isb/pubs/forms/. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1–D1. *Water temperature—Influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

1–D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2–D1. *Application of surface geophysics to ground-water investigations*, by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.

2–D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2–E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2–E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2–F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3–A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3–A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3–A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3–A4. *Measurement of peak discharge at width contractions by indirect methods*, by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3–A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.

3–A6. *General procedure for gaging streams*, by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3–A7. *Stage measurement at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3–A8. *Discharge measurements at gaging stations*, by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3–A9. *Measurement of time of travel in streams by dye tracing*, by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3–Al0. *Discharge ratings at gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3–A11. *Measurement of discharge by the moving-boat method*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3–A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3–A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3–A14. *Use of flumes in measuring discharge*, by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3–A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.
3–A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.
3–A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.
3–A18. *Determination of stream reaeration coefficients by use of tracers*, by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.
3–A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.
3–A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.
3–A21 *Stream-gaging cableways*, by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3–B1. *Aquifer-test design, observation, and data analysis*, by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.
3–B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.
3–B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.
3–B4. *Regression modeling of ground-water flow*, by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.
3–B4. *Supplement 1. Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.
3–B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.
3–B6. *The principle of superposition and its application in ground-water hydraulics*, by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.
3–B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.
3–B8. *System and boundary conceptualization in ground-water flow simulation*, by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3–C1. *Fluvial sediment concepts*, by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.
3–C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.
3–C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4–A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.
4–A2. *Frequency curves*, by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.
4–A3. *Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at http://water.usgs.gov/pubs/twri/twri4a3/. (Accessed August 30, 2002.)

Section B. Surface Water

4–B1. *Low-flow investigations*, by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.
4–B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.
4–B3. *Regional analyses of streamflow characteristics*, by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

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4–D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5–A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.
5–A2. *Determination of minor elements in water by emission spectroscopy*, by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.
5–A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.
5–A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.
5–A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.
5–A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5–C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6–A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.

6–A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6–A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6–A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6–A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L.J. Torak: USGS–TWRI book 6, chap. A5. 1993. 243 p.

6–A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A6. 1996. 125 p.

6–A7. *User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS–TWRI book 6, chap. A7. 2002. 77 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7–C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.

7–C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.

7–C3. *A model for simulation of flow in singular and interconnected channels*, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8–A1. *Methods of measuring water levels in deep wells*, by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8–A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8–B2. *Calibration and maintenance of vertical-axis type current meters*, by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9–A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9–A2. *National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9–A3. *National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9–A4. *National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9–A5. *National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9–A6. *National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9–A7. *National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9–A8. *National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9–A9. *National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

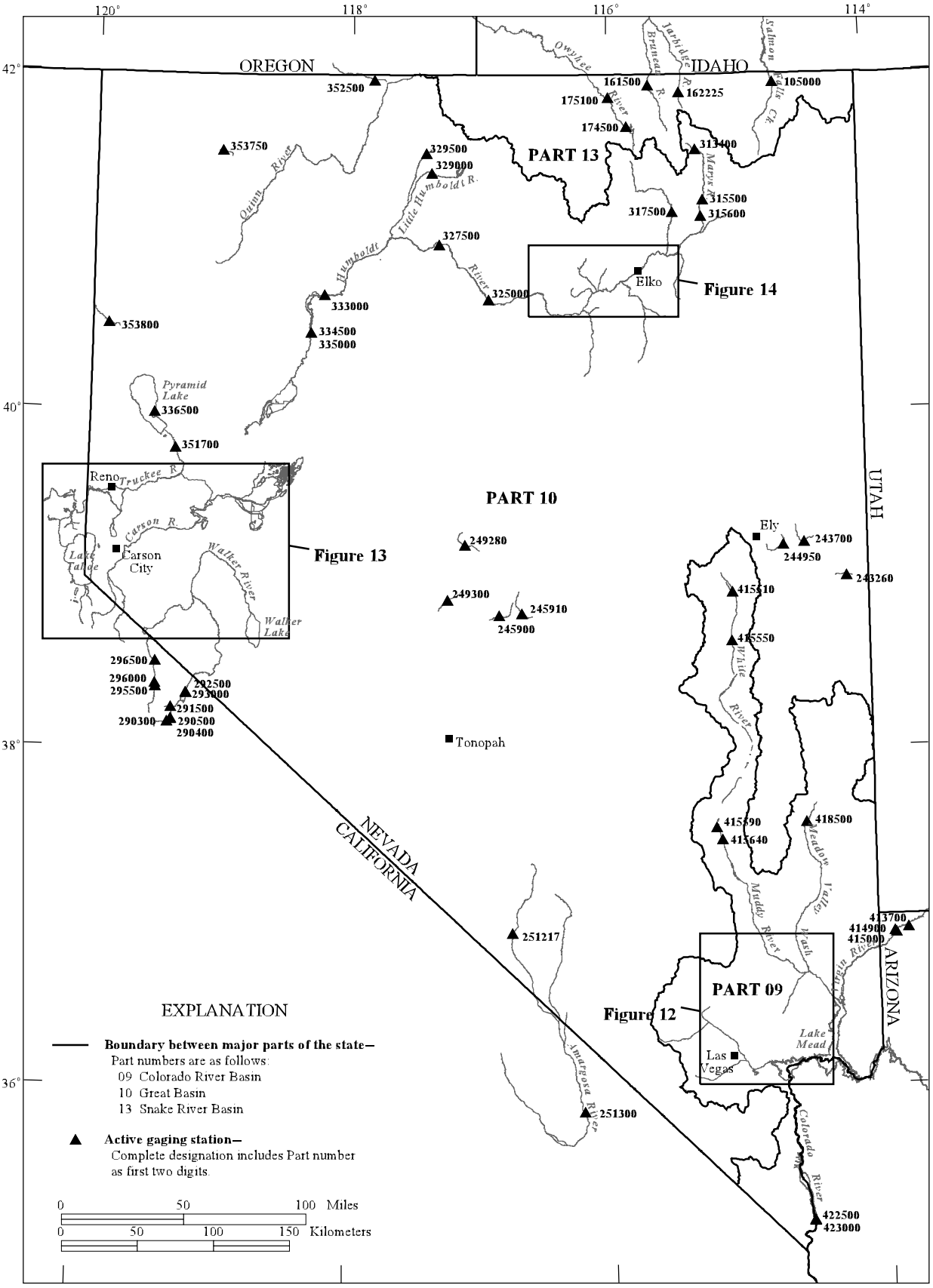


Figure 11. Gaging stations listed in this report.

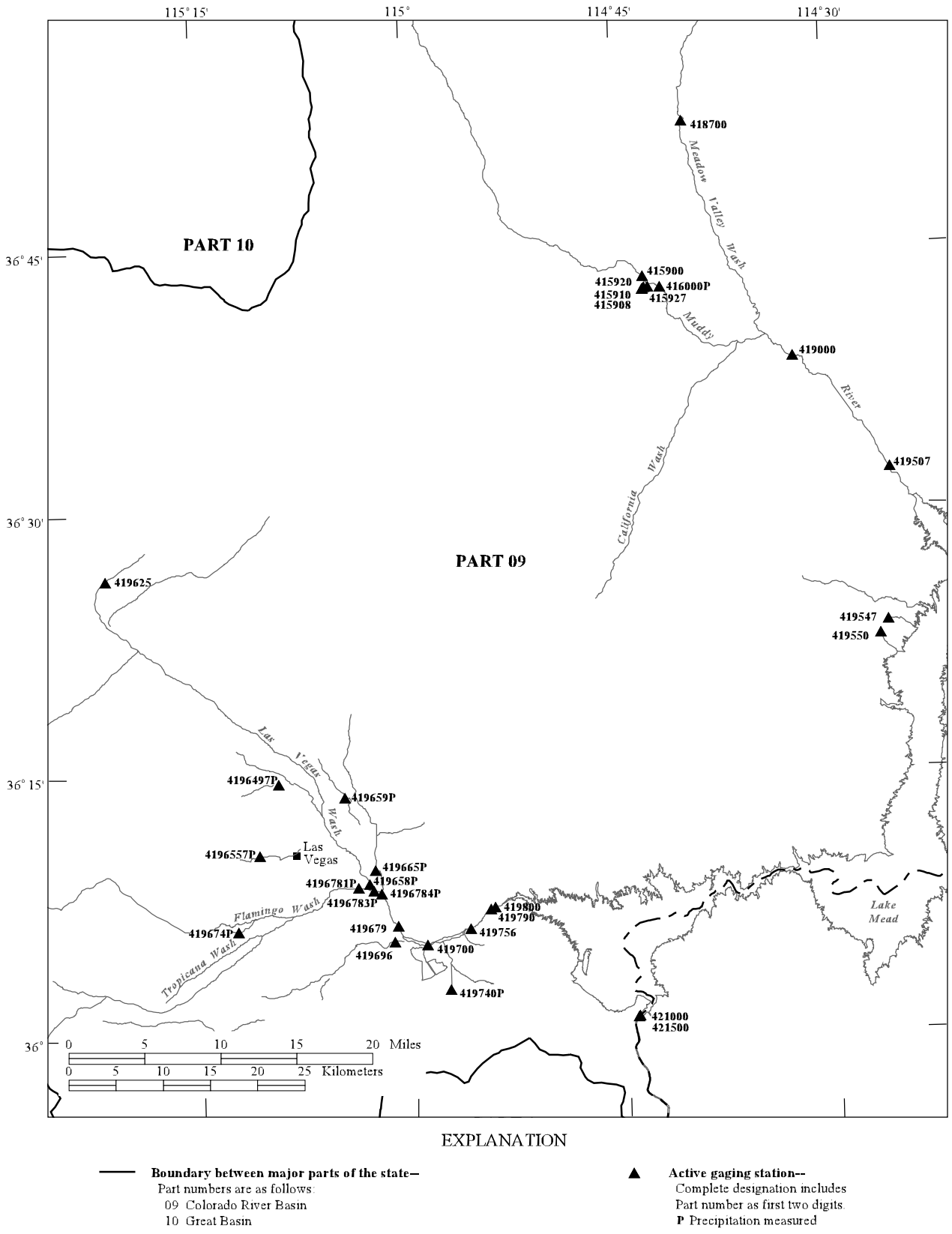


Figure 12. Gaging stations, southeastern Nevada.

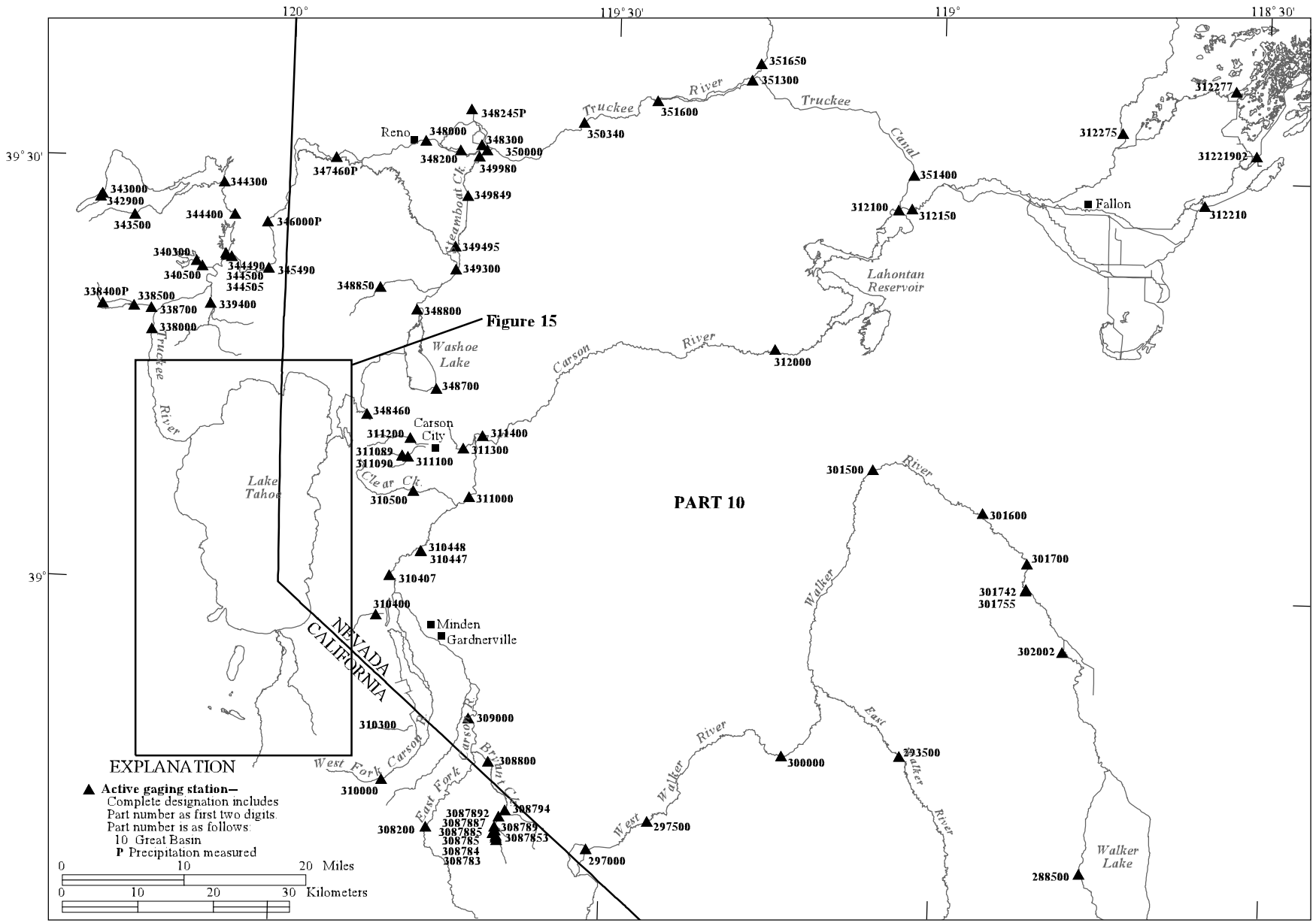


Figure 13. Gaging stations, west-central Nevada.

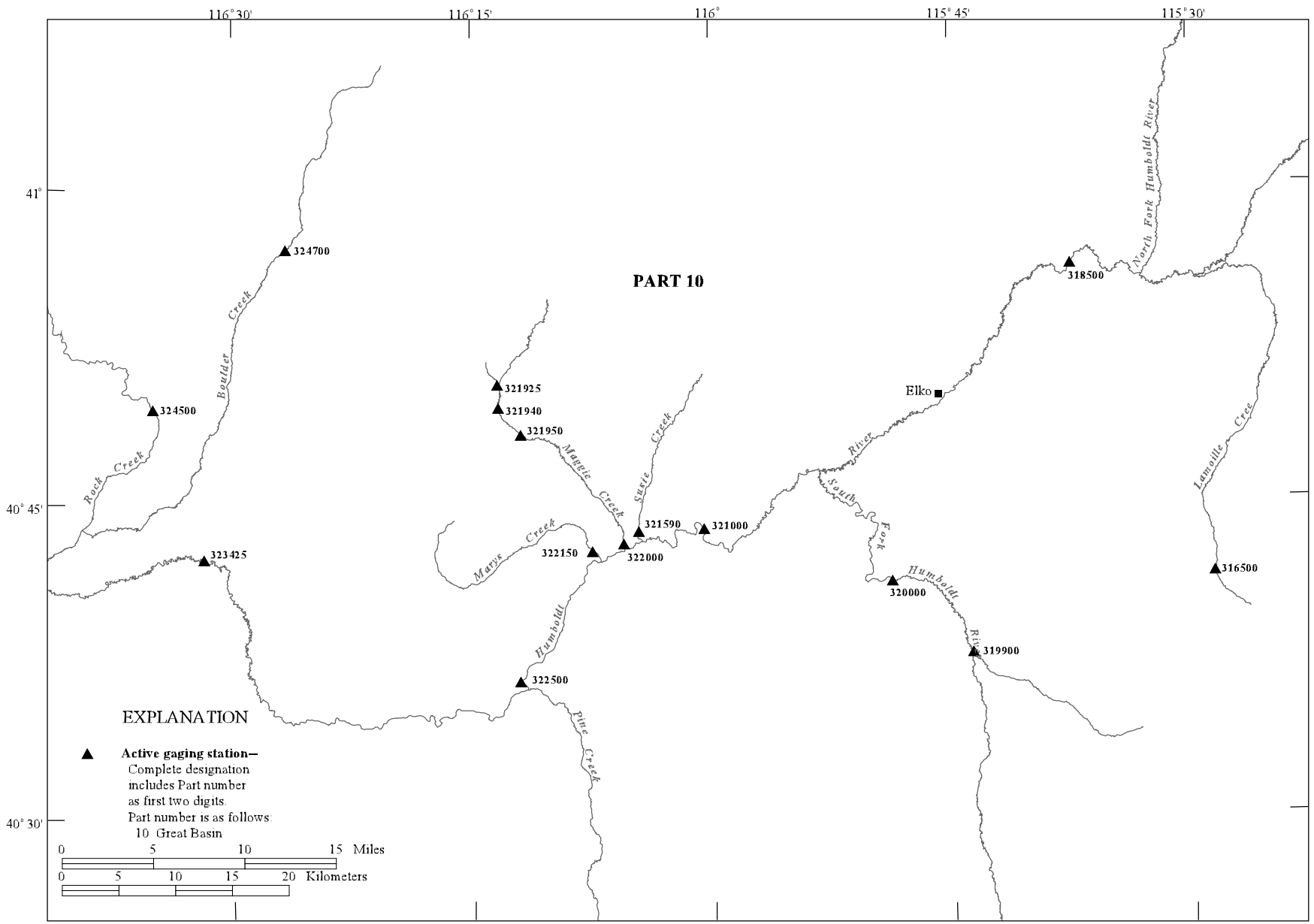


Figure 14. Gaging stations, upper Humboldt River, Nevada.

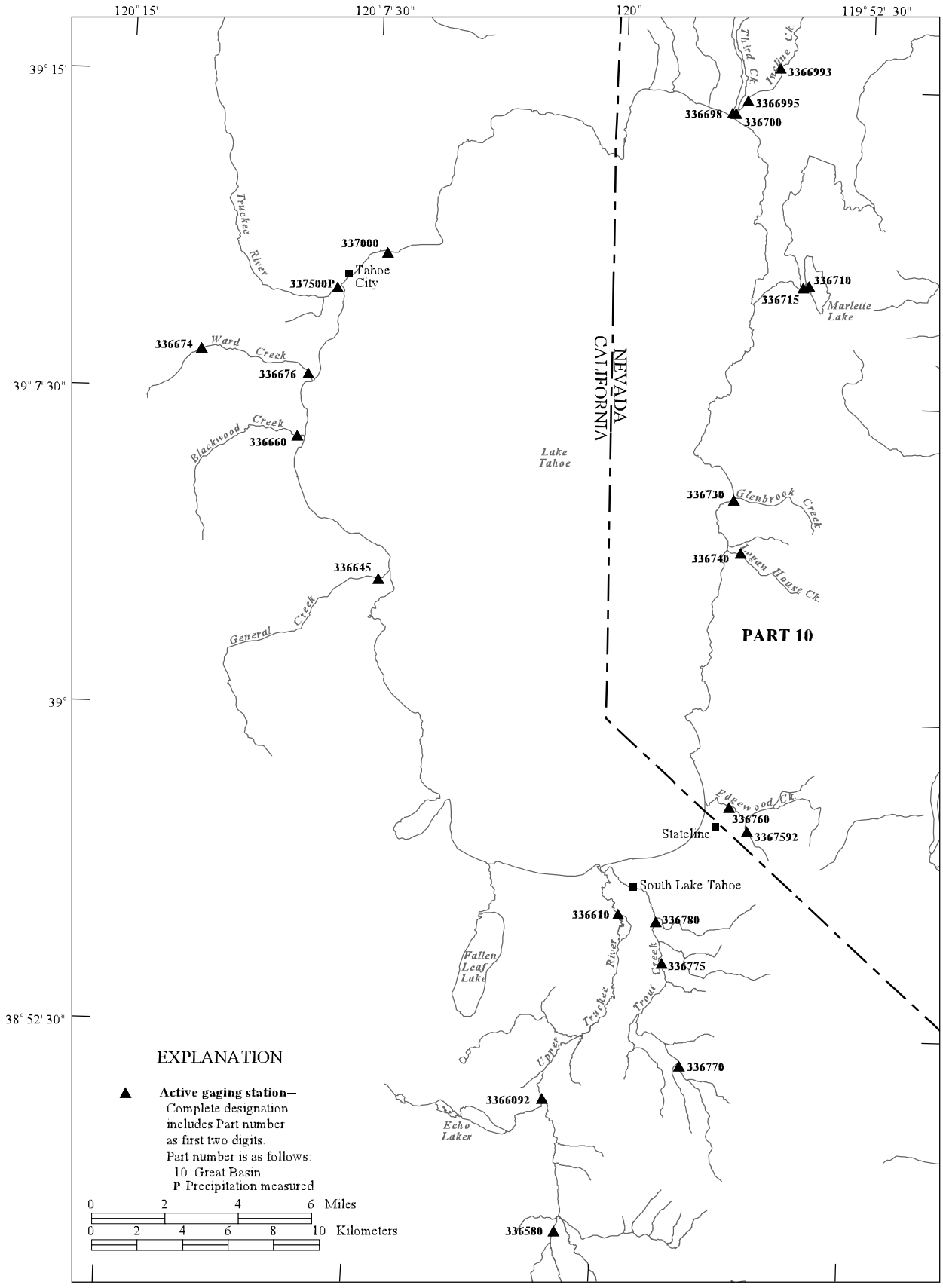


Figure 15. Gaging stations, Lake Tahoe basin.

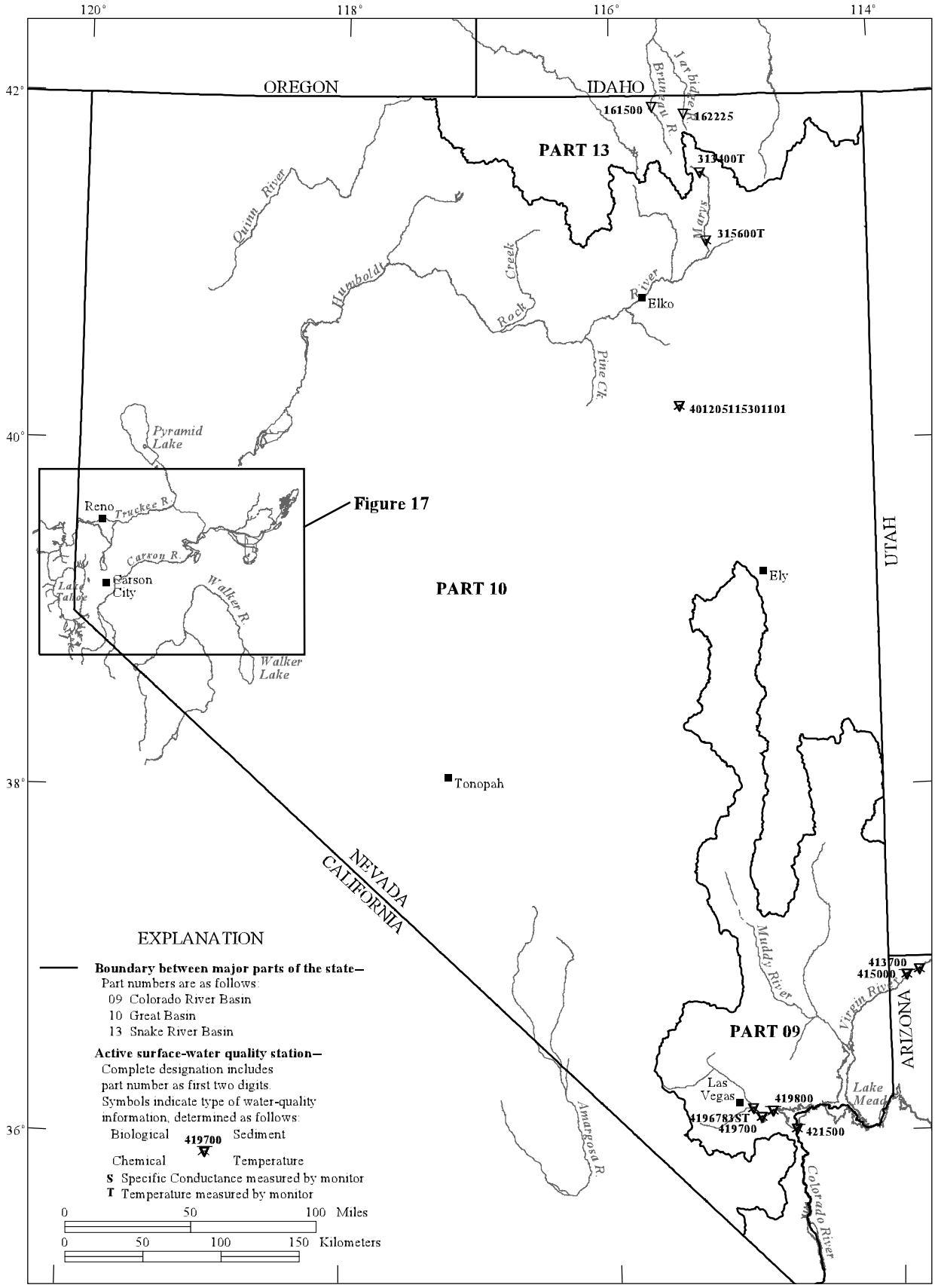


Figure 16. Surface-water quality stations listed in this report.

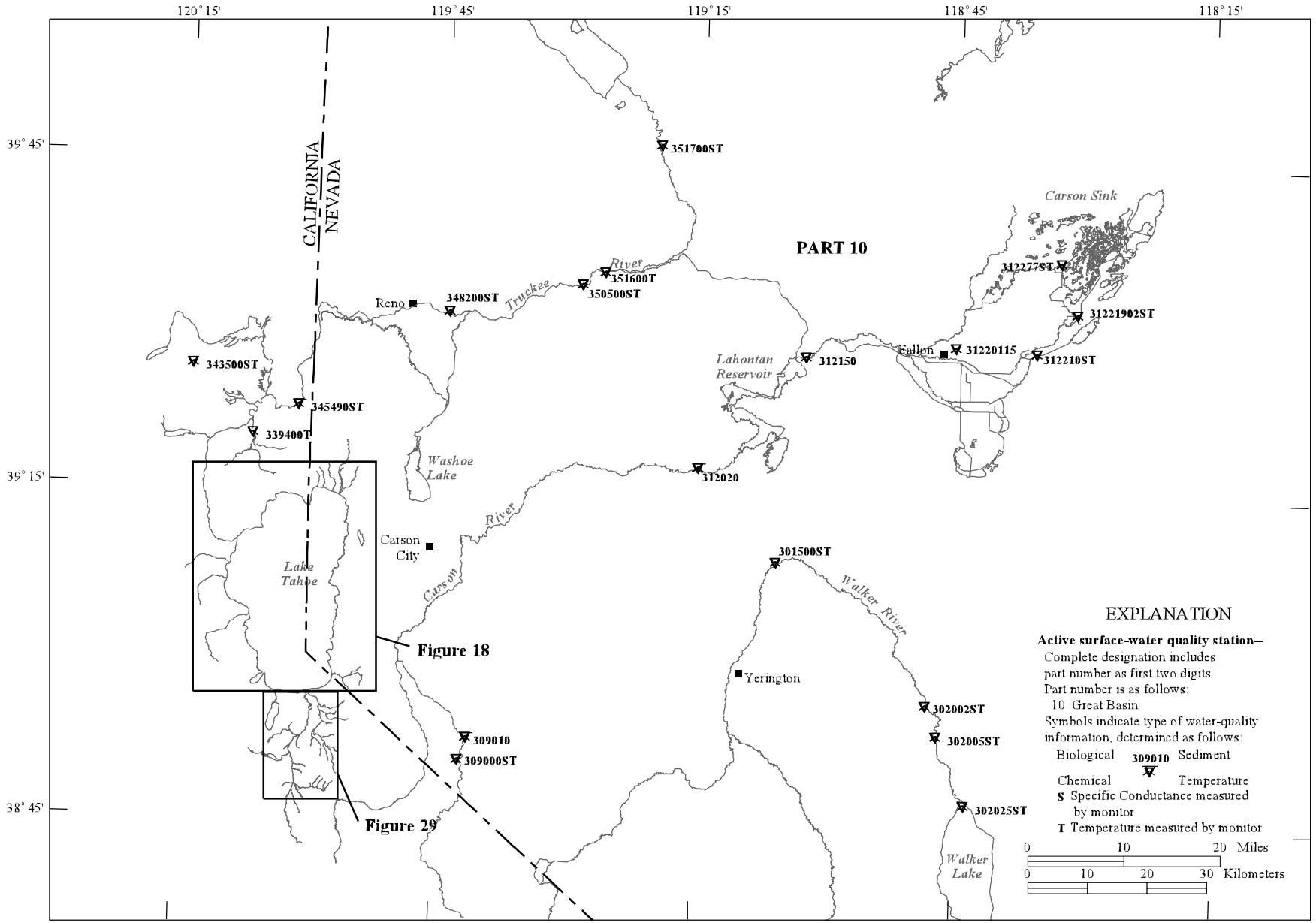


Figure 17. Surface-water quality stations, west-central Nevada.

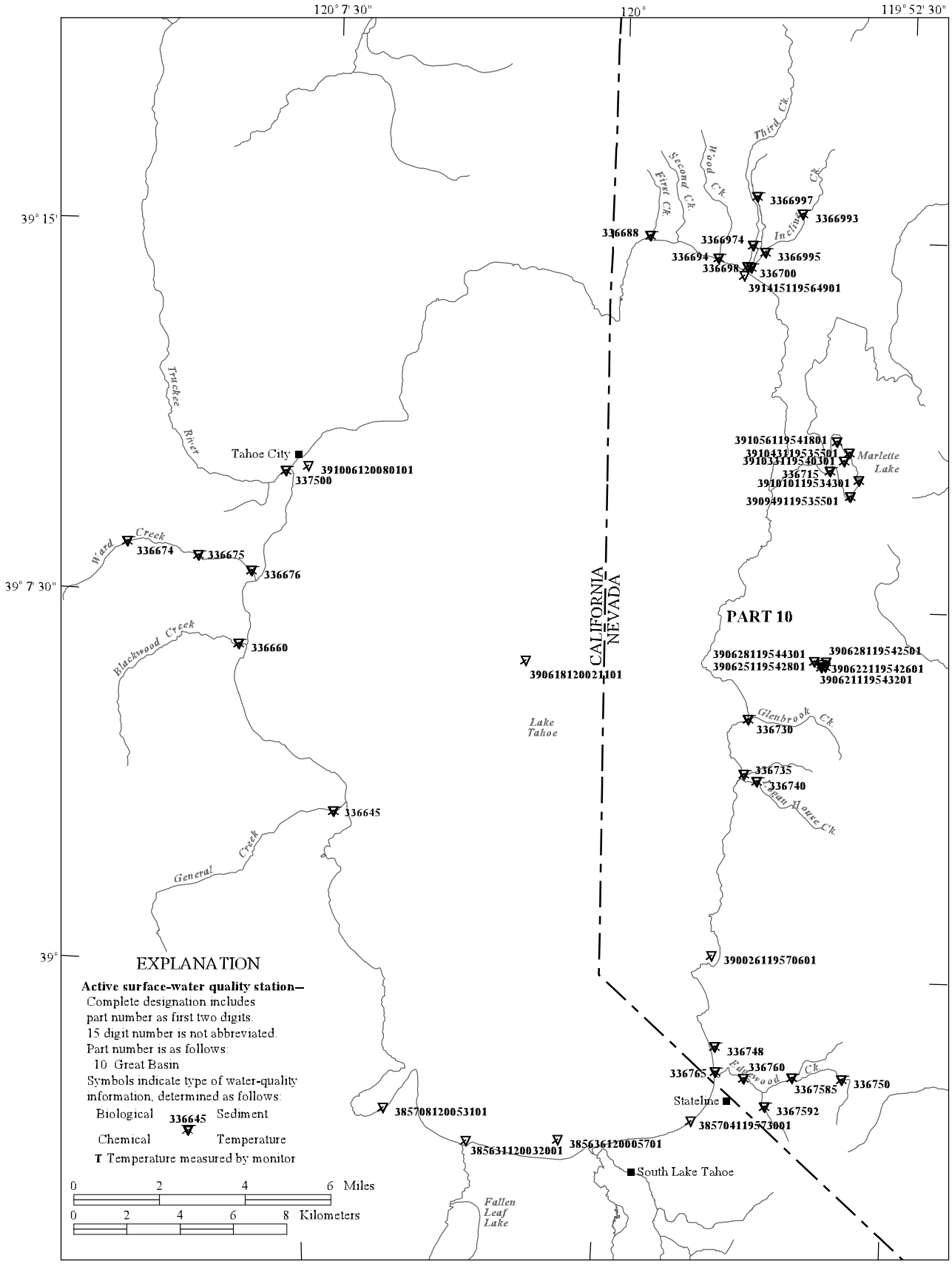


Figure 18. Surface-water quality stations, Lake Tahoe.

SURFACE WATER RECORDS



DONALD C. CLENDENON, U.S. GEOLOGICAL SURVEY

Construction of new gage house at Carson River at Carson City gaging station May, 1967.

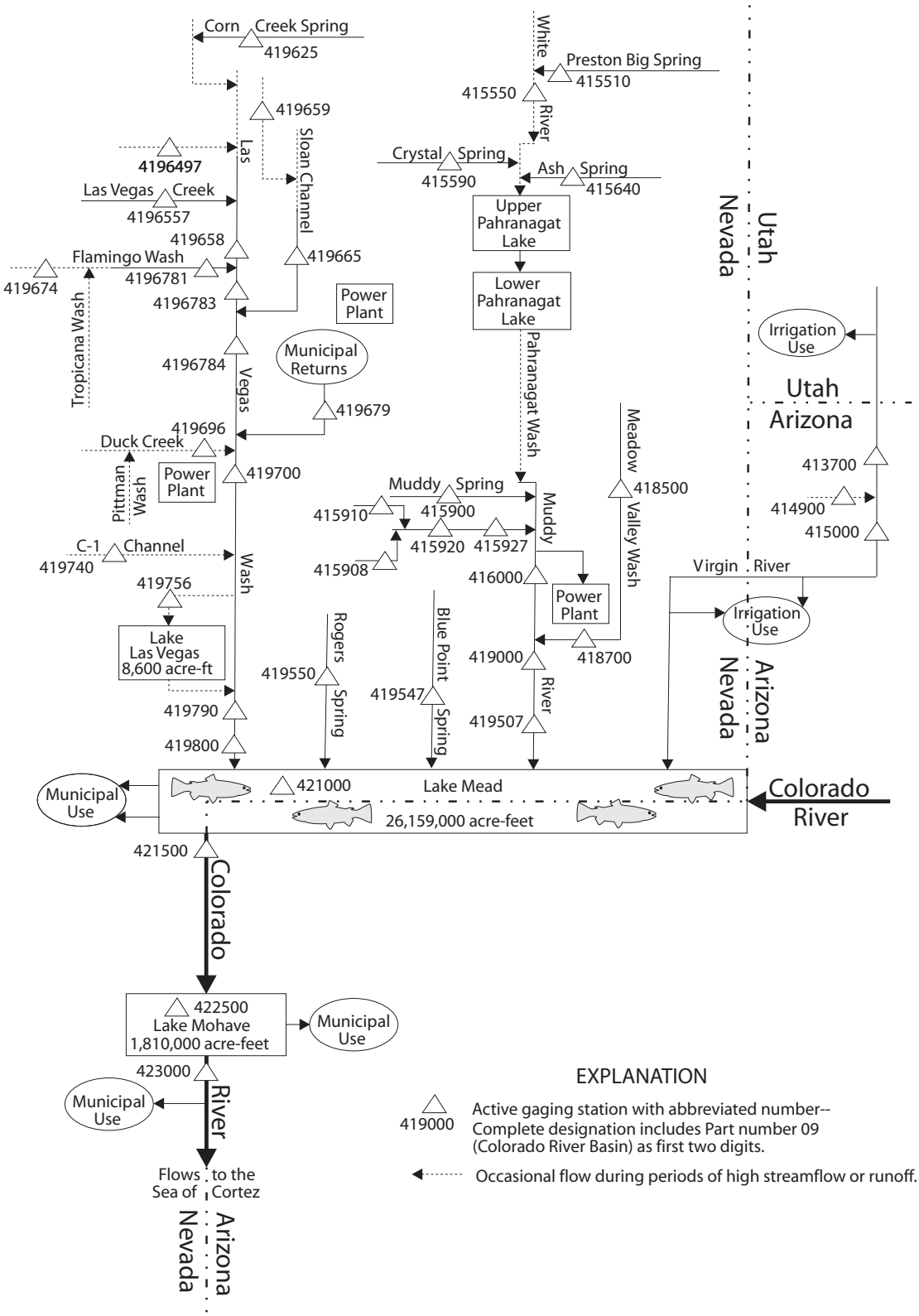


Figure 19. Schematic diagram of flow system and gaging stations in Colorado River basin.

SURFACE-WATER RECORDS

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09413700 VIRGIN RIVER ABOVE THE NARROWS NEAR LITTLEFIELD, AZ

LOCATION.--Lat 36°55''16", long 113°49'52", in NE $^1/_4$ SE $^1/_4$ sec. 29, T.41 N., R.14 W., Mohave County, Hydrologic Unit 15010010, on right bank, 50 ft east of edge of roadway of I-15, 225 ft south of mile marker 15, 6.8 mi upstream from Littlefield, and 43 mi upstream from Lake Mead.

DRAINAGE AREA.--4,415 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,000 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1, 1989, 61,000 ft^3/s, on basis of slope-area measurement of peak flow at site about 1.0 mi downstream, due to failure of Quail Creek Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,220 ft^3/s, September 7, gage height, 9.78 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	58	107	111	e57	55	32	40	3.5	0.42	5.0	0.75
2	33	62	101	100	e77	73	28	28	0.94	0.35	0.58	0.23
3	28	68	107	136	e75	61	26	28	0.05	0.76	1.1	1.9
4	30	59	96	97	e81	58	26	12	6.0	1.2	1.7	0.00
5	32	73	104	95	e73	58	22	13	6.2	2.2	4.3	0.00
6	28	74	95	95	e74	78	17	11	7.7	0.18	4.6	0.18
7	44	58	99	93	e74	63	21	18	4.2	0.14	0.69	311
8	67	59	99	96	e75	52	31	15	3.1	0.76	1.4	186
9	54	51	101	92	e65	46	27	8.8	0.11	0.03	0.21	284
10	67	57	97	100	e59	53	31	12	1.0	0.19	0.33	98
11	34	57	107	87	e48	46	31	8.5	0.85	0.00	0.25	92
12	41	83	108	89	e46	40	27	14	0.77	0.59	0.00	106
13	51	52	105	99	e39	45	21	8.1	1.2	0.02	0.02	91
14	47	69	105	93	e44	52	23	12	0.98	0.07	0.00	63
15	62	79	111	72	e39	42	22	9.4	0.69	0.00	0.13	51
16	85	77	108	67	e44	49	43	10	0.00	0.00	0.00	40
17	57	70	105	72	e47	56	39	12	0.00	0.14	0.00	48
18	70	79	102	91	e46	54	44	8.7	0.02	0.05	0.00	26
19	61	86	110	94	e54	42	40	5.8	0.23	1.5	0.00	27
20	68	80	111	91	e56	47	39	7.3	0.05	3.1	0.00	30
21	73	71	114	97	39	49	30	7.2	0.00	2.3	0.00	24
22	93	92	114	94	59	45	31	5.3	0.36	5.1	0.00	22
23	71	79	114	e74	70	39	37	16	0.56	1.9	0.00	16
24	62	83	120	e68	51	32	34	7.7	1.3	4.6	0.00	23
25	68	110	148	e67	43	50	31	5.5	1.9	82	0.00	15
26	64	113	151	e75	40	54	26	1.5	0.33	78	0.00	20
27	47	100	151	e75	41	44	48	3.3	0.00	20	0.08	24
28	49	107	157	e81	43	39	62	15	0.00	3.9	0.00	19
29	71	98	164	e79	---	42	55	7.3	0.01	6.7	0.00	18
30	60	107	183	e73	---	42	48	4.0	0.34	1.6	0.00	80
31	52	---	151	e69	---	41	---	3.3	---	8.5	0.76	---
TOTAL	1706	2311	3645	2722	1559	1547	992	357.7	42.39	226.30	21.15	1717.06
MEAN	55.03	77.03	117.6	87.81	55.68	49.90	33.07	11.54	1.413	7.300	0.682	57.24
MAX	93	113	183	136	81	78	62	40	7.7	82	5.0	311
MIN	28	51	95	67	39	32	17	1.5	0.00	0.00	0.00	0.00
AC-FT	3380	4580	7230	5400	3090	3070	1970	709	84	449	42	3410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	92.48	117.9	126.3	114.8	126.6	120.6	136.2	95.46	17.15	59.85	42.37	114.3
MAX	145	212	216	172	180	194	209	162	49.3	153	81.5	376
(WY)	1999	1999	1999	1999	1999	2000	2001	2001	1999	1998	1999	1998
MIN	55.0	77.0	85.2	87.8	55.7	49.9	33.1	11.5	1.41	7.30	0.68	27.8
(WY)	2002	2002	2000	2002	2002	2002	2002	2002	2002	2002	2002	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	32879.93		16846.60			
ANNUAL MEAN	90.08		46.16		89.25	
HIGHEST ANNUAL MEAN					128	1999
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	359	Mar 10	311	Sep 7	2600	Sep 12 1998
LOWEST DAILY MEAN	0.00	Jun 21	0.00	Jun 16	0.00	Jun 21 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 28	0.00	Aug 16	0.00	Jun 28 2001
MAXIMUM PEAK FLOW			1220	Sep 7	61000	Jan 1 1989
MAXIMUM PEAK STAGE			9.78	Sep 7		
ANNUAL RUNOFF (AC-FT)	65220		33420		64660	
10 PERCENT EXCEEDS	197		100		203	
50 PERCENT EXCEEDS	85		42		73	
90 PERCENT EXCEEDS	10		0.10		5.1	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1998 to current year.

REMARKS.--In June 1998, station was established in cooperation with the Southern Nevada Water Authority to characterize the hydraulics and water quality of the Virgin River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
01...	1000	ENVIRONMENTAL	37	710	8.8	103	8.5	3230	19.0
DEC									
03...	0900	ENVIRONMENTAL	114	707	11.3	141	8.3	2790	22.0
APR									
23...	0830	ENVIRONMENTAL	38	710	9.3	98	8.3	3470	14.0
SEP									
23...	0930	ENVIRONMENTAL	18	709	8.6	98	8.4	3460	17.5

VIRGIN RIVER BASIN

09414900 BEAVER DAM WASH AT BEAVER DAM, AZ

LOCATION.--Lat 36°54'07", long 113°55'58", in NW $^1/_4$ NE $^1/_4$ NE $^1/_4$ sec. 5, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on upstream end of bridge pier at Beaver Dam, AZ.

DRAINAGE AREA.--575 mi^2.

PERIOD OF RECORD.--February 1993 to September 1994, October 1995 to September 1996, October 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,850 ft above NGVD of 1929, from bench mark on bridge.

REMARKS.--No estimated daily discharges. Records poor. See schematic diagram of Colorado River Basin.

EXTREMES PERIOD OF RECORD.--Maximum discharge, 5,940 ft^3/s, February 10, 1993, gage height, 7.14 ft from rating curve extended above 2,220 ft^3/s; minimum daily, 0.11 ft^3/s, February 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 286 ft^3/s, September 11, gage height, 5.92 ft; minimum daily, 0.48 ft^3/s, September 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.2	1.7	1.8	2.2	2.5	1.0	1.6	1.6	1.4	1.9	1.2
2	1.6	2.3	1.7	1.7	2.1	2.6	1.0	1.7	1.6	1.5	1.7	1.1
3	1.7	2.3	1.7	1.7	1.9	2.5	1.0	1.6	1.6	1.4	1.7	1.2
4	1.6	2.3	1.7	1.8	1.9	2.5	1.0	1.6	1.6	1.3	1.7	1.1
5	1.6	2.2	1.7	1.9	1.9	2.3	0.97	1.6	1.7	1.3	1.8	0.86
6	1.8	2.2	1.7	2.0	1.7	2.3	0.96	1.6	1.9	1.4	1.6	0.73
7	1.9	2.2	1.7	2.1	1.7	2.2	1.0	1.5	2.0	1.4	1.6	0.53
8	1.9	2.2	1.8	2.0	1.7	2.1	1.0	1.5	1.8	1.5	1.4	0.50
9	2.0	2.2	1.9	2.0	1.6	2.0	1.0	1.5	1.9	1.4	1.2	0.50
10	2.0	2.0	1.9	2.2	1.6	2.0	1.0	1.5	1.9	1.5	0.93	0.48
11	2.0	2.0	1.8	2.2	1.6	2.0	1.0	1.4	1.9	1.5	0.71	40
12	2.1	2.0	1.6	2.2	1.5	1.9	1.0	1.4	1.9	1.6	0.64	0.99
13	2.2	2.0	1.6	2.3	1.7	1.7	0.97	1.5	1.8	1.6	0.60	1.4
14	2.1	2.0	1.6	2.3	1.6	1.7	0.94	1.5	1.7	1.6	0.64	1.5
15	2.1	1.9	1.6	2.2	1.6	1.7	1.2	1.4	1.6	1.6	0.60	1.4
16	2.3	1.9	1.9	2.2	1.6	1.8	1.7	1.5	1.5	1.5	0.67	1.2
17	2.2	1.9	1.9	2.3	1.5	1.8	1.6	1.5	1.5	1.6	0.67	1.1
18	2.2	1.9	2.0	2.3	1.5	1.9	1.6	1.5	1.5	1.7	0.72	1.1
19	2.2	1.9	2.0	2.5	1.5	2.0	1.6	1.4	1.5	1.6	0.70	1.0
20	2.1	1.8	2.0	2.4	1.6	2.1	1.6	1.5	1.5	1.5	0.75	1.0
21	2.2	1.7	2.0	2.3	1.6	2.0	1.5	1.5	1.5	1.5	0.75	0.98
22	2.3	1.7	2.1	2.4	1.6	1.9	1.5	1.6	1.5	1.5	0.83	0.94
23	2.3	1.7	2.0	2.5	1.8	1.9	1.6	1.6	1.5	1.5	0.84	0.90
24	2.3	1.7	2.0	2.5	2.0	1.8	1.6	1.6	1.5	1.6	0.93	0.84
25	2.2	1.8	2.0	2.5	1.9	1.7	1.5	1.6	1.5	1.7	0.94	0.84
26	2.2	1.7	2.0	2.4	2.0	1.7	1.5	1.5	1.5	1.7	0.99	0.76
27	2.2	1.7	2.0	2.3	2.1	1.6	1.5	1.5	1.5	1.8	1.0	0.75
28	2.2	1.7	2.2	2.3	2.1	1.4	1.5	1.5	1.5	1.9	1.1	0.75
29	2.2	1.7	2.3	2.2	---	1.1	1.5	1.5	1.4	1.9	1.1	0.75
30	2.1	1.7	2.3	2.2	---	1.1	1.5	1.5	1.3	1.8	1.2	0.75
31	2.2	---	2.2	2.2	---	1.1	---	1.5	---	1.8	1.3	---
TOTAL	63.6	58.5	58.6	67.9	49.1	58.9	38.34	47.2	48.7	48.6	33.21	67.15
MEAN	2.05	1.95	1.89	2.19	1.75	1.90	1.28	1.52	1.62	1.57	1.07	2.24
MAX	2.3	2.3	2.3	2.5	2.2	2.6	1.7	1.7	2.0	1.9	1.9	40
MIN	1.6	1.7	1.6	1.7	1.5	1.1	0.94	1.4	1.3	1.3	0.60	0.48
AC-FT	126	116	116	135	97	117	76	94	97	96	66	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	2.30	2.42	2.62	2.74	6.45	5.86	3.29	2.32	2.08	2.07	2.04	2.22
MAX	2.88	3.08	3.23	3.40	31.2	30.1	9.31	2.91	2.56	2.62	2.75	3.90
(WY)	1994	1997	1996	1997	1998	1993	1993	1993	1997	1993	1993	1998
MIN	1.64	1.55	1.89	1.97	1.75	1.90	1.28	1.52	1.43	1.57	1.07	1.11
(WY)	1998	1998	2002	2001	2002	2002	2002	2002	2001	2002	2002	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	661.1		639.80			
ANNUAL MEAN	1.81		1.75		2.68	
HIGHEST ANNUAL MEAN					4.96	1998
LOWEST ANNUAL MEAN					1.75	2002
HIGHEST DAILY MEAN	10	Mar 10	40	Sep 11	1730	Feb 9 1993
LOWEST DAILY MEAN	1.1	Jul 19	0.48	Sep 10	0.11	Feb 18 1993
ANNUAL SEVEN-DAY MINIMUM	1.2	Jul 16	0.65	Aug 11	0.65	Aug 11 2002
MAXIMUM PEAK FLOW			286	Sep 11	5940	Feb 10 1993
MAXIMUM PEAK STAGE			5.92	Sep 11	7.14	Feb 10 1993
ANNUAL RUNOFF (AC-FT)	1310		1270		1940	
10 PERCENT EXCEEDS	2.2		2.2		3.1	
50 PERCENT EXCEEDS	1.8		1.6		2.3	
90 PERCENT EXCEEDS	1.4		0.99		1.6	

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ

LOCATION.--Lat 36°53'30", long 113°55'25", in SW $^1/_4$ SW $^1/_4$ sec.4, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, on right bank, 0.5 mi downstream from Beaver Dam Wash, 0.4 mi upstream from Littlefield, and 36 mi upstream from Lake Mead.

DRAINAGE AREA.--5,090 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 959: 1932. WSP 979: 1930-31, 1933-37. WSP 1313: 1940 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,763.68 ft above NGVD of 1929. Prior to May 28, 1933, nonrecording gage at site 300 ft upstream, and May 28, 1933, to November 7, 1939, at same site, both at datum 2.53 ft higher. November 8, 1939, to March 31, 1942, nonrecording gage at same site at datum 2.00 ft higher. April 1, 1942, to September 30, 1970, water-stage recorder at same site at same datum. October 1, 1970, to August 7, 1979, at site 300 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,000 ft^3/s, January 1, 1989, gage height, 22.37 ft, due to failure of Quail Creek Dam; maximum discharge excluding 1989: 35,200 ft^3/s, December 6, 1966, gage height, 15.66 ft, for site then in use, from rating curve exteded above 1,500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 40 ft^3/s, August 6, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept 7	1130	*1700	*6.64				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	113	161	160	115	101	107	107	57	52	61	52
2	96	109	151	142	134	129	107	87	53	54	54	53
3	88	119	157	184	132	108	109	92	52	53	54	54
4	93	104	147	142	138	104	109	74	56	51	53	50
5	95	122	155	141	127	100	101	73	60	56	56	51
6	89	126	143	137	128	126	96	69	62	52	59	52
7	109	107	147	133	128	136	95	76	58	52	51	538
8	138	107	144	138	130	112	105	76	52	54	51	332
9	123	99	149	135	119	108	101	66	50	53	50	470
10	138	100	144	147	114	107	101	68	49	53	50	188
11	107	105	155	128	104	100	102	66	51	54	48	248
12	106	132	161	129	101	92	98	69	50	54	47	183
13	119	136	154	144	94	97	88	67	51	55	47	175
14	119	118	156	136	97	102	89	70	52	53	47	129
15	123	128	171	137	92	99	86	70	51	53	47	107
16	148	132	168	131	97	100	106	67	50	54	46	95
17	112	117	160	140	100	115	106	69	49	55	47	102
18	121	127	157	132	99	115	108	63	50	56	46	81
19	115	137	163	130	106	102	104	54	50	57	47	74
20	115	137	168	133	109	105	100	58	51	58	47	80
21	e120	118	174	139	108	106	97	60	49	59	48	70
22	139	143	174	138	103	103	92	59	51	61	48	71
23	137	125	178	134	94	97	93	71	52	59	48	61
24	119	131	182	128	95	98	92	63	53	61	48	69
25	124	163	206	127	93	121	85	61	54	144	47	60
26	117	166	209	135	89	137	80	55	51	186	48	61
27	99	151	209	132	91	118	108	54	49	91	49	71
28	95	156	212	138	94	108	123	69	49	62	49	65
29	127	149	217	136	---	114	124	61	50	60	49	63
30	116	162	234	130	---	117	115	57	50	56	50	133
31	106	---	211	126	---	115	---	55	---	62	51	---
TOTAL	3552	3839	5317	4262	3031	3392	3027	2106	1562	1980	1543	3838
MEAN	114.6	128.0	171.5	137.5	108.2	109.4	100.9	67.94	52.07	63.87	49.77	127.9
MAX	148	166	234	184	138	137	124	107	62	186	61	538
MIN	88	99	143	126	89	92	80	54	49	51	46	50
MED	116	127	161	136	103	107	101	67	51	55	48	72
AC-FT	7050	7610	10550	8450	6010	6730	6000	4180	3100	3930	3060	7610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

MEAN	148.3	191.1	223.5	235.4	317.1	362.4	402.5	417.0	140.4	107.7	174.4	152.9
MAX	602	552	1247	775	2330	1805	1385	2122	1119	381	976	737
(WY)	1947	1947	1967	1969	1980	1995	1969	1941	1983	1932	1932	1939
MIN	53.4	101	111	108	108	85.4	61.6	49.9	46.8	51.6	49.8	53.3
(WY)	1965	1991	1964	1964	2002	1977	1934	1990	1964	1965	2002	1964

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1930 - 2002	
ANNUAL TOTAL	52201		37449			
ANNUAL MEAN	143.0		102.6		239.0	
HIGHEST ANNUAL MEAN					697	1983
LOWEST ANNUAL MEAN					100	1991
HIGHEST DAILY MEAN	331	Apr 29	538	Sep 7	17000	Mar 3 1938
LOWEST DAILY MEAN	43	Jul 24	46	Aug 16	40	Aug 6 1966
ANNUAL SEVEN-DAY MINIMUM	46	Jul 23	47	Aug 12	41	Aug 3 1966
MAXIMUM PEAK FLOW			1700	Sep 7	61000	Jan 1 1989
MAXIMUM PEAK STAGE			6.64	Sep 7	22.37	Jan 1 1989
ANNUAL RUNOFF (AC-FT)	103500		74280		173200	
10 PERCENT EXCEEDS	240		155		419	
50 PERCENT EXCEEDS	141		101		147	
90 PERCENT EXCEEDS	68		51		62	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: July 1949 to September 1969.

SPECIFIC CONDUCTANCE: October 1947 to March 1988.

WATER TEMPERATURE: October 1947 to March 1988.

SEDIMENT DATA: October 1947 to September 1968, October 1992 to September 1995.

REMARKS.--Data was collected in cooperation with the Southern Nevada Water Authority to characterize the hydraulics and water quality of the Virgin River Basin and to establish information on chemical loading into Lake Mead. Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (right) bank is generally more dilute than average, particularly at times of low streamflow; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of streamwide average (range of discharge, 60-230 ft^3/s). Water temperature characteristically shows little or no variation from bank to bank. Detailed sampling information for period since June 1975 is available from U.S. Geological Survey, Carson City, Nevada.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,650 microsiemens/cm, August 21, 1966; minimum, 615 microsiemens/cm, May 27, 28, 30, 31, 1983.

WATER TEMPERATURE: Maximum, 33.5°C, July 7, 1953; minimum, 2.0°C January 4, 1949, January 4, 1950, January 4, 5, 1971.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV													
27...	1015	ENVIRONMENTAL	163	63	.032	.022	714	10.3	101	7.8	2880	11.2	246
FEB													
27...	1000	ENVIRONMENTAL	92	9.3	.026	.020	717	8.5	88	7.8	3200	13.5	283
MAY													
20...	0845	ENVIRONMENTAL	67	5.1	.009	.006	709	9.3	115	7.8	3140	21.5	336
AUG													
27...	0930	ENVIRONMENTAL	50	2.5	.008	.006	709	8.4	103	7.8	3130	21.4	353

Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV													
27...	75.0	22.9	257	273	260	317	354	.8	18.4	792	2050	1940	E.03
FEB													
27...	86.7	23.8	269	299	287	350	394	.9	17.1	979	2410	2240	.05
MAY													
20...	101	25.9	248	273	283	345	339	1.0	16.6	989	2350	2230	.06
AUG													
27...	101	25.2	247	245	260	307	352	1.0	20.8	1000	2430	2260	<.04

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)
NOV													
27...	E.09	.47	1.08	E.006	.18	E.04	.04	.21	6.4	2.4	1.5	4.0	130
FEB													
27...	.12	.21	.76	E.007	.04	.11	.11	.15	1.1	<.1	1.3	1.1	79
MAY													
20...	<.10	.31	E.03	<.008	.27	<.06	<.02	E.03	2.4	<.1	.7	2.4	120
AUG													
27...	<.10	.10	.13	<.008	.04	<.06	<.02	<.06	.4	<.1	.7	.4	42

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
NOV													
27...	191	847	7.5	756	<10	303	1.1	3170	1.5	<.07	<.16	<.25	<.002
FEB													
27...	20	220	9.0	959	<10	427	<.7	3860	4.1	<.07	<.16	<.25	<.006
MAY													
20...	43	128	7.5	911	<30	421	2.8	3720	2.0	<.07	<.16	<.25	<.006
AUG													
27...	96	289	8.0	841	<30	413	2.8	3740	2.5	<.07	<.16	<.25	<.006

Date	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	[a]BDMC, SURROG, WATER, UNFLTRD REC PERCENT (99835)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)
NOV													
27...	<.11	<.004	<.05	<.002	<.20	<.27	<.21	<.005	<.007	91.4	<.010	<.05	<.14
FEB													
27...	<.11	<.006	<.05	<.004	<.20	<.27	<.21	<.005	<.007	95.0	<.010	<.05	<.10
MAY													
20...	<.11	<.006	<.05	<.004	<.20	<.27	<.21	<.005	<.007	78.1	<.010	<.05	<.09
AUG													
27...	<.11	<.006	<.05	<.004	<.20	<.27	<.21	<.005	<.007	73.7	<.010	<.05	<.09

Date	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
NOV													
27...	<.07	<.002	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	<.003
FEB													
27...	<.07	<.002	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.16	<.003
MAY													
20...	<.07	<.002	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	<.003
AUG													
27...	<.07	<.002	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	<.003

Date	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
NOV													
27...	<.006	95.7	.008	<.11	<.09	<.12	<.005	<.09	<.02	<.12	<.25	<.002	<.009
FEB													
27...	<.006	119	.009	<.11	<.09	<.12	<.005	<.09	<.02	<.12	<.25	<.002	<.009
MAY													
20...	<.006	103	E.003	<.11	<.09	<.12	<.005	<.14	<.02	<.12	<.25	<.002	<.009
AUG													
27...	<.006	126	<.005	<.11	<.09	<.12	<.005	<.15	<.02	<.12	<.25	<.002	<.009

Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)
NOV													
27...	<.005	<.17	<.06	<.003	87.2	<.004	<.06	<.035	<.027	<.33	<.26	<.07	<.22
FEB													
27...	<.005	<.07	<.06	<.003	95.5	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.38
MAY													
20...	<.005	<.07	<.06	<.003	95.3	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.22
AUG													
27...	<.005	<.07	<.06	<.003	95.9	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.22

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
NOV													
27...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.007	<.002
FEB													
27...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.010	<.004
MAY													
20...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.010	<.004
AUG													
27...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.010	<.004

Date	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)
NOV													
27...	<.010	<.006	<.011	<.09	M	<.004	<.010	<.011	<.02	<.22	<.12	<.03	<.011
FEB													
27...	<.022	<.006	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	<.23	<.03	<.005
MAY													
20...	<.022	<.006	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	<.12	<.03	<.005
AUG													
27...	<.022	<.006	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	<.12	<.03	<.005

Date	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV										
27...	<.02	<.034	<.02	<.005	<.002	<.07	<.009	--	--	--
FEB										
27...	<.02	<.034	<.02	<.005	<.002	<.07	<.009	63	23	15.6
MAY										
20...	<.02	<.034	<.02	<.005	<.002	<.07	<.009	62	48	11.2
AUG										
27...	<.02	<.034	<.02	<.005	<.002	<.07	<.009	23	21	3.1

Remark Codes Used in This report:
< -- Less than
E -- Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical methods.

09415510 PRESTON BIG SPRING NEAR PRESTON, NV

LOCATION.--Lat 38°55'38", long 115°04'55", in SE $^1/_4$ NE $^1/_4$ sec.2, T.12 N., R.61 E., White Pine County, Hydrologic Unit 15010011, 1.0 mi northwest of Preston.

DRAINAGE AREA--Indeterminate.

PERIOD OF RECORD.--May 1947, January, July, August 1982, October, November 1985, 1987-1999 (discharge measurements only), December 1982 to September 1985, February 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,700 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10 ft^3/s, April 8, 1999, gage height, 2.24 ft; minimum daily, 6.7 ft^3/s, several days March and April 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.0 ft^3/s, August 13, gage height, 1.89 ft; minimum daily, 6.7 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	7.7	7.8	7.8	7.6	7.6	7.7	7.0	6.7	7.2	7.4	7.4
2	7.7	7.6	7.8	7.8	7.6	7.6	7.4	7.0	6.8	7.2	7.4	7.4
3	7.6	7.6	7.8	7.8	7.6	7.6	7.2	7.0	6.9	7.2	7.4	7.4
4	7.7	7.6	7.8	7.8	7.6	7.6	7.2	6.9	7.0	7.2	7.4	7.4
5	7.7	7.7	7.8	7.8	7.6	7.6	7.2	6.9	6.8	7.3	7.4	7.4
6	7.7	7.7	7.8	7.8	7.6	7.6	7.2	6.9	6.7	7.3	7.4	7.4
7	7.7	7.7	7.8	7.7	7.7	7.6	7.4	7.0	6.8	7.3	7.4	7.4
8	7.7	7.7	7.8	7.7	7.7	7.6	7.1	7.0	6.8	7.3	7.4	7.4
9	7.7	7.7	7.8	7.7	7.6	7.6	7.1	6.9	6.9	7.3	7.4	7.4
10	7.7	7.7	7.8	7.7	7.6	7.7	7.2	6.8	6.9	7.3	7.4	7.4
11	7.7	7.7	7.8	7.7	7.6	7.7	7.1	6.8	7.0	7.3	7.4	7.4
12	7.7	7.7	7.8	7.7	7.6	7.7	7.1	6.9	7.0	7.4	7.4	7.4
13	7.7	7.8	7.8	7.7	7.6	7.7	7.1	6.9	7.1	7.4	7.7	7.4
14	7.7	7.8	7.8	7.7	7.6	7.7	7.1	7.0	7.1	7.4	7.4	7.3
15	7.7	7.8	7.8	7.7	7.6	7.7	7.2	6.8	7.1	7.4	7.4	7.4
16	7.7	7.8	7.8	7.7	7.6	7.7	7.2	6.7	7.2	7.4	7.4	7.4
17	7.8	7.8	7.8	7.7	7.6	7.7	7.2	6.8	7.1	7.4	7.4	7.4
18	7.8	7.8	7.8	7.6	7.6	7.7	7.1	7.0	6.9	7.4	7.4	7.4
19	7.8	7.8	7.8	7.6	7.6	7.7	7.1	6.9	7.0	7.4	7.4	7.4
20	7.8	7.8	7.8	7.6	7.6	7.7	7.1	6.7	7.0	7.4	7.4	7.4
21	7.8	7.8	7.8	7.6	7.6	7.7	7.1	6.8	7.1	7.4	7.4	7.4
22	7.8	7.8	7.8	7.6	7.6	7.8	7.1	6.9	7.1	7.4	7.4	7.4
23	7.8	7.8	7.8	7.6	7.6	7.8	7.1	6.9	7.1	7.4	7.4	7.4
24	7.7	7.8	7.8	7.6	7.6	7.8	7.0	6.7	7.0	7.4	7.4	7.4
25	7.7	7.8	7.8	7.6	7.6	7.8	7.0	6.7	7.1	7.4	7.4	7.4
26	7.8	7.8	7.8	7.6	7.6	7.8	7.0	6.7	7.1	7.4	7.4	7.4
27	7.8	7.8	7.8	7.6	7.6	7.8	7.0	6.8	7.2	7.4	7.4	7.5
28	7.8	7.8	7.8	7.6	7.6	7.8	7.0	7.0	7.3	7.4	7.4	7.5
29	7.8	7.8	7.8	7.6	---	7.7	7.0	7.0	7.1	7.4	7.4	7.5
30	7.8	7.8	7.8	7.6	---	7.6	7.0	6.9	7.2	7.4	7.4	7.5
31	7.8	---	7.8	7.6	---	7.6	---	6.9	---	7.4	7.4	---
TOTAL	239.9	232.5	241.8	237.9	213.0	238.3	214.3	213.2	210.1	227.9	229.7	222.3
MEAN	7.74	7.75	7.80	7.67	7.61	7.69	7.14	6.88	7.00	7.35	7.41	7.41
MAX	7.8	7.8	7.8	7.8	7.7	7.8	7.7	7.0	7.3	7.4	7.7	7.5
MIN	7.6	7.6	7.8	7.6	7.6	7.6	7.0	6.7	6.7	7.2	7.4	7.3
AC-FT	476	461	480	472	422	473	425	423	417	452	456	441

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

MEAN	7.64	7.64	7.95	7.74	7.57	7.70	7.62	7.37	7.66	7.74	7.65	7.54
MAX	7.81	7.77	8.52	8.23	7.95	8.09	8.02	7.95	8.78	8.66	7.77	7.98
(WY)	1985	2001	1983	1983	1983	2000	1985	1985	1985	1985	1984	2000
MIN	7.32	7.34	7.26	6.96	6.99	6.83	6.89	6.88	7.00	7.35	7.41	7.22
(WY)	1984	1984	1984	1984	1984	1984	1984	2002	2002	2002	2002	1985

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1983 - 2002	
ANNUAL TOTAL	2808.9		2720.9			
ANNUAL MEAN	7.70		7.45		7.59	
HIGHEST ANNUAL MEAN					7.98	1985
LOWEST ANNUAL MEAN					7.24	1984
HIGHEST DAILY MEAN	8.2	Apr 22	7.8	Oct 17	9.2	Jun 25 1985
LOWEST DAILY MEAN	7.2	May 1	6.7	May 16	6.7	Mar 18 1984
ANNUAL SEVEN-DAY MINIMUM	7.3	May 8	6.8	May 20	6.7	Mar 30 1984
MAXIMUM PEAK FLOW			9.0	Aug 13	10	Apr 8 1999
MAXIMUM PEAK STAGE			1.89	Aug 13	2.24	Apr 2 2000
ANNUAL RUNOFF (AC-FT)	5570		5400		5500	
10 PERCENT EXCEEDS	7.9		7.8		8.1	
50 PERCENT EXCEEDS	7.7		7.6		7.6	
90 PERCENT EXCEEDS	7.5		7.0		7.0	

VIRGIN RIVER BASIN

09415550 WHITE RIVER NEAR LUND, NV

LOCATION.--Lat 38°38'17", long 115°05'32", in NE $^1/_4$ SE $^1/_4$ sec.14, T.9 N., R.61 E., Nye County, Hydrologic Unit 15010011, on right bank, 1 mi west of Hardy Springs, and 17 mi south of Lund.

DRAINAGE AREA.--703 mi^2.

PERIOD OF RECORD.--September 1990 to September 1994, December 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44 ft^3/s, March 3, 2000, gage height, 2.24 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--No flow this year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	e0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	0.000	0.000	0.000	0.000	0.55	3.92	0.36	0.000	0.003	0.000	0.000	0.000
MAX	0.001	0.000	0.000	0.000	1.42	11.7	1.46	0.000	0.018	0.000	0.000	0.000
(WY)	2001	1991	1991	1991	2000	2000	1993	1991	1993	1991	1991	1991
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1991	1991	1991	1991	1991	1994	1991	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	17.46		0.00			
ANNUAL MEAN	0.048		0.000		0.29	
HIGHEST ANNUAL MEAN					1.00	1993
LOWEST ANNUAL MEAN					0.000	1994
HIGHEST DAILY MEAN	3.9	Apr 13	0.00	Oct 1	42	Mar 10 2000
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
MAXIMUM PEAK FLOW					44	Mar 3 2000
MAXIMUM PEAK STAGE					3.26	Mar 8 1993
ANNUAL RUNOFF (AC-FT)	35		0.00		209	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

VIRGIN RIVER BASIN

09415590 CRYSTAL SPRING NEAR HIKO, NV

LOCATION.--Lat 37°31'55", long 115°13'54", in SE $^1/_4$ NE $^1/_4$ sec.10, T.5 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on right bank, 75 ft south of State Highway 25, 200 ft southeast of junction of State Highway 38, and 4.5 mi south of Hiko.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1985 to September 1988, March 1990 to September 1994, December 1998 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 3,800 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversion for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft^3/s, June 29, 1999, gage height, 1.39 ft; minimum daily, 1.0 ft^3/s, September 24, 27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s, September 17, gage height, 1.25 ft; minimum daily, 4.4 ft^3/s, several days, February and March.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.6	13	14	13	13	4.5	11	4.7	13	13	5.4
2	12	4.6	13	14	13	13	4.5	13	4.7	13	13	5.4
3	12	4.6	13	14	13	13	10	13	4.7	13	13	7.8
4	12	4.6	14	14	7.2	13	12	13	4.7	13	13	13
5	12	4.6	14	14	4.4	13	12	13	8.5	13	13	13
6	12	4.6	14	13	4.4	13	12	13	13	13	13	13
7	12	4.6	14	13	4.4	13	12	13	13	7.5	13	13
8	12	4.6	14	13	4.4	13	12	13	13	4.8	13	13
9	12	4.6	14	13	4.4	12	12	13	13	5.5	13	13
10	12	4.6	14	13	4.4	12	12	13	13	4.9	13	13
11	12	4.6	14	13	4.4	12	12	13	13	4.9	13	13
12	12	4.6	14	13	4.4	12	12	13	13	11	13	10
13	12	4.6	14	13	10	12	12	13	13	13	13	5.5
14	12	4.6	14	13	13	12	12	13	13	13	13	5.5
15	12	4.6	14	13	13	12	12	13	7.9	13	13	5.5
16	12	7.5	14	13	13	12	12	13	4.9	13	9.7	5.5
17	12	13	14	13	13	12	12	13	4.8	13	5.2	11
18	12	13	14	13	13	12	13	13	4.7	13	5.2	13
19	12	13	14	13	13	12	13	13	4.7	13	5.2	13
20	12	13	14	13	13	12	13	13	4.7	9.5	5.3	13
21	12	13	14	13	13	12	13	13	4.7	5.0	11	13
22	12	13	14	13	13	12	13	13	11	5.0	13	13
23	12	13	14	13	13	12	13	13	9.6	5.0	13	13
24	12	13	14	13	13	12	8.3	13	5.8	5.0	13	13
25	12	13	14	13	13	12	4.9	13	13	11	13	13
26	12	12	14	13	13	12	4.7	13	13	13	13	13
27	12	13	14	13	13	6.9	4.6	13	13	13	13	13
28	12	13	14	13	13	4.4	4.6	10	13	13	13	13
29	12	13	14	13	---	4.4	4.6	4.7	13	13	12	13
30	12	13	14	13	---	4.4	4.7	4.7	13	13	5.4	13
31	12	---	14	13	---	4.4	---	4.7	---	13	5.4	---
TOTAL	372	260.5	431	408	286.4	344.5	301.4	373.1	285.1	326.1	350.4	334.6
MEAN	12.0	8.68	13.9	13.2	10.2	11.1	10.0	12.0	9.50	10.5	11.3	11.2
MAX	12	13	14	14	13	13	13	13	13	13	13	13
MIN	12	4.6	13	13	4.4	4.4	4.5	4.7	4.7	4.8	5.2	5.4
AC-FT	738	517	855	809	568	683	598	740	565	647	695	664

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	9.47	10.3	10.8	11.1	10.4	9.78	9.74	9.77	8.45	9.18	9.47	9.52
MAX	12.0	13.0	13.9	13.2	12.7	13.0	12.8	12.0	10.8	11.9	11.3	11.7
(WY)	1991	2001	2002	2002	1994	2000	2001	2002	1994	2001	2002	1986
MIN	5.73	7.21	7.85	8.49	8.33	7.60	6.79	7.60	4.96	5.70	7.45	4.85
(WY)	1992	1987	1991	1992	1992	1992	1992	1993	1992	1992	1988	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	4171.2		4073.1			
ANNUAL MEAN	11.4		11.2		9.84	
HIGHEST ANNUAL MEAN					11.6	2001
LOWEST ANNUAL MEAN					7.29	1992
HIGHEST DAILY MEAN	14	Jun 27	14	Dec 4	14	Jun 27 2001
LOWEST DAILY MEAN	3.2	May 30	4.4	Feb 5	1.0	Sep 24 1991
ANNUAL SEVEN-DAY MINIMUM	4.0	May 29	4.4	Feb 5	1.5	Jun 13 1991
MAXIMUM PEAK FLOW			17	Sep 17	20	Sep 17 2002
MAXIMUM PEAK STAGE			1.25	Sep 17	1.39	Jun 29 1999
ANNUAL RUNOFF (AC-FT)	8270		8080		7130	
10 PERCENT EXCEEDS	14		13		13	
50 PERCENT EXCEEDS	13		13		11	
90 PERCENT EXCEEDS	4.6		4.7		4.1	

09415640 ASH SPRINGS CREEK BELOW HIGHWAY 93 AT ASH SPRINGS, NV

LOCATION.--Lat 37°27'37", long 115°11'37", in NE $^1/_4$ NE $^1/_4$ sec.1, T.6 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on left bank, downstream of culvert at US Highway 93 and .2 mi southeast of Ash Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,589.94 ft above NAVD88.

REMARKS.--No estimated daily discharges. Records fair. Diversion for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27 ft^3/s, July 13, 2000, gage height, 4.57 ft; minimum daily, 7.2 ft^3/s, May 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft^3/s, February 11, gage height, 4.15 ft; minimum daily, 7.2 ft^3/s, May 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	15	13	11	16	15	14	14	13	15	11
2	15	15	14	13	10	16	15	14	14	12	15	11
3	15	15	13	13	11	15	16	13	13	14	15	14
4	15	14	13	13	11	15	14	14	13	15	15	16
5	15	15	13	13	11	15	15	13	13	15	15	16
6	15	15	14	14	11	15	14	13	15	15	15	15
7	15	14	13	14	11	16	14	13	14	15	15	15
8	14	15	14	14	10	16	14	14	15	16	15	15
9	14	15	14	13	10	16	14	14	17	16	15	15
10	15	15	14	14	11	16	14	14	17	16	15	15
11	15	15	14	14	13	16	14	13	16	16	12	15
12	15	15	14	13	15	15	14	14	16	15	12	15
13	14	15	14	14	15	15	12	13	16	15	15	15
14	15	15	14	14	16	15	9.0	13	17	15	15	15
15	15	14	14	14	16	14	8.3	13	16	15	15	15
16	14	14	14	14	16	12	10	13	16	15	15	15
17	15	14	13	13	16	10	15	11	13	15	15	15
18	14	14	13	12	16	11	14	7.2	13	13	15	15
19	13	14	13	12	16	11	14	12	16	11	15	15
20	11	15	13	11	16	11	14	14	15	11	15	15
21	11	15	13	11	16	11	14	14	15	11	15	15
22	11	15	14	11	16	11	14	14	16	11	15	15
23	11	15	14	11	16	13	13	14	15	11	15	15
24	11	15	14	11	16	15	13	14	15	11	15	15
25	10	15	14	11	17	15	13	15	15	11	15	14
26	11	15	14	11	16	15	13	16	15	11	15	14
27	11	15	14	11	17	15	14	16	15	12	15	13
28	10	15	13	10	17	15	13	15	15	15	15	11
29	12	15	13	11	---	15	13	15	15	15	15	11
30	15	15	13	11	---	15	13	14	15	15	14	12
31	15	---	14	10	---	15	---	14	---	15	11	---
TOTAL	416	443	423	384	393	441	402.3	420.2	450	426	454	428
MEAN	13.4	14.8	13.6	12.4	14.0	14.2	13.4	13.6	15.0	13.7	14.6	14.3
MAX	15	15	15	14	17	16	16	16	17	16	15	16
MIN	10	14	13	10	10	10	8.3	7.2	13	11	11	11
AC-FT	825	879	839	762	780	875	798	833	893	845	901	849

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

MEAN	14.9	14.4	13.6	13.6	15.0	14.9	14.4	14.5	15.2	14.9	15.0	15.4
MAX	16.3	14.8	13.8	15.2	16.2	15.6	15.5	16.4	16.8	16.0	15.8	16.4
(WY)	2001	2002	2000	2001	2001	1999	2001	2001	2001	2000	1999	2000
MIN	13.4	13.7	13.3	12.4	14.0	14.2	13.4	13.3	13.7	13.7	14.3	14.3
(WY)	2002	2000	2001	2002	2002	2002	2002	1999	1999	1999	2001	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	5538		5080.5			
ANNUAL MEAN	15.2		13.9		14.7	
HIGHEST ANNUAL MEAN					15.4	2001
LOWEST ANNUAL MEAN					13.9	2002
HIGHEST DAILY MEAN	18	May 28	17	Feb 25	18	May 28 2001
LOWEST DAILY MEAN	10	Oct 25	7.2	May 18	7.2	May 18 2002
ANNUAL SEVEN-DAY MINIMUM	11	Oct 22	11	Jan 27	11	Jan 27 2002
MAXIMUM PEAK FLOW			20	Feb 11	27	Jul 13 2000
MAXIMUM PEAK STAGE			4.15	Feb 11	4.57	Jul 13 2000
ANNUAL RUNOFF (AC-FT)	10980		10080		10640	
10 PERCENT EXCEEDS	17		16		17	
50 PERCENT EXCEEDS	15		14		15	
90 PERCENT EXCEEDS	14		11		12	

VIRGIN RIVER BASIN

09415900 MUDDY SPRING AT L.D.S FARM NEAR MOAPA, NV

LOCATION.--Lat 36°43'18", long 114°42'53", in SE $^1/_4$ NE $^1/_4$ sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi downstream from L.D.S. mansion, and 6 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,770 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Regulation for recreational purposes occurs 0.1 mi upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41 ft^3/s, February 23, 2002, gage height, 2.18 ft; the gage was submerged by backwater and over bank flow from Muddy River on August 15, 1990, discharge and gage height unknown; minimum daily, 5.9 ft^3/s, May 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41 ft^3/s, February 23, gage height, 2.18 ft; minimum daily, 7.6 ft^3/s, September 9, 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	8.3	8.4	8.4	8.6	8.5	8.8	8.2	8.3	7.8	8.3	8.8
2	8.3	8.3	8.4	8.4	8.6	8.8	8.2	8.3	8.6	8.2	9.0	7.7
3	7.9	8.7	8.6	8.4	9.0	8.7	8.5	8.2	8.0	8.3	9.0	8.1
4	8.2	8.3	8.4	8.4	8.1	8.2	8.5	8.3	8.3	8.2	8.9	8.1
5	8.2	8.0	8.4	8.4	8.5	8.6	8.5	8.3	8.3	8.2	8.9	8.1
6	8.1	8.4	8.4	8.4	8.5	8.5	8.5	8.3	8.3	8.2	8.9	8.1
7	8.1	8.3	8.4	8.4	8.4	8.6	8.8	8.3	8.3	8.6	8.9	9.1
8	8.2	8.3	8.8	8.4	8.4	8.5	8.1	8.3	8.3	7.9	8.9	8.8
9	8.2	8.3	8.6	8.4	8.4	8.6	8.4	8.2	8.6	8.2	8.9	7.6
10	8.2	8.3	8.1	8.4	8.4	8.6	8.4	8.3	8.0	8.2	7.7	8.1
11	8.2	8.7	8.4	8.4	8.4	e8.6	8.4	8.3	8.3	8.2	8.2	8.1
12	8.3	8.0	8.4	8.4	8.4	8.6	8.4	8.6	8.2	8.2	8.2	8.1
13	8.6	8.3	8.4	8.5	8.4	8.5	8.4	8.2	8.2	8.2	8.2	8.1
14	8.3	8.3	8.4	8.6	8.4	8.4	8.4	8.6	8.2	8.5	8.2	8.9
15	7.9	8.4	8.4	8.4	8.4	8.4	8.3	8.0	8.2	7.8	8.2	8.8
16	8.2	8.4	8.4	8.4	8.8	8.4	8.0	8.3	8.5	8.1	8.1	7.6
17	8.2	8.4	8.5	8.4	8.6	8.6	7.8	8.3	7.9	8.2	8.7	8.1
18	8.2	8.4	8.4	8.5	8.1	8.5	7.9	8.3	8.3	8.2	8.9	8.1
19	8.2	8.4	8.4	8.6	8.4	8.5	7.9	8.3	8.2	8.2	7.7	8.1
20	8.5	8.4	8.4	8.6	8.4	8.5	8.3	8.7	8.2	8.2	8.1	8.1
21	8.3	8.4	8.4	8.6	8.4	8.6	8.5	8.0	8.2	8.5	8.1	8.8
22	7.9	8.4	8.7	8.6	8.4	8.6	8.6	8.3	8.2	8.0	8.1	8.0
23	8.3	8.4	8.4	8.6	9.4	8.6	8.0	8.4	8.5	8.2	8.1	8.8
24	8.3	8.9	8.4	8.6	8.4	8.7	8.3	8.3	7.7	8.1	8.9	8.8
25	8.3	8.7	8.1	8.5	8.5	8.6	8.3	8.3	8.1	8.1	8.8	7.9
26	8.3	8.1	8.4	8.5	8.4	8.6	8.4	8.4	8.1	8.1	7.7	8.0
27	8.3	8.4	8.4	8.4	8.4	8.6	8.4	8.7	8.2	8.5	8.5	8.1
28	8.3	8.4	8.4	8.5	8.5	8.6	8.3	8.0	8.2	9.1	7.7	8.9
29	8.3	8.4	8.4	8.6	---	8.5	8.6	8.3	8.3	7.8	8.1	8.0
30	8.3	8.4	8.4	8.5	---	8.5	7.9	8.3	8.7	8.3	8.1	8.4
31	8.3	---	8.4	8.6	---	8.5	---	8.3	---	8.2	9.1	---
TOTAL	255.5	251.4	261.0	262.8	237.6	265.0	249.8	257.6	247.4	254.5	261.1	248.2
MEAN	8.24	8.38	8.42	8.48	8.49	8.55	8.33	8.31	8.25	8.21	8.42	8.27
MAX	8.6	8.9	8.8	8.6	9.4	8.8	8.8	8.7	8.7	9.1	9.1	9.1
MIN	7.9	8.0	8.1	8.4	8.1	8.2	7.8	8.0	7.7	7.8	7.7	7.6
AC-FT	507	499	518	521	471	526	495	511	491	505	518	492

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	7.35	7.37	7.37	7.45	7.48	7.41	7.38	7.28	7.26	7.17	7.20	7.28
MAX	8.24	8.38	8.42	8.48	9.22	8.55	8.33	8.31	8.25	8.21	8.42	8.27
(WY)	2002	2002	2002	2002	1993	2002	2002	2002	2002	2002	2002	2002
MIN	6.77	6.92	6.70	6.91	6.85	6.71	6.96	6.69	6.64	6.43	6.58	6.57
(WY)	2001	2001	1991	2001	1991	1997	1997	1993	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	2676.8		3051.9			
ANNUAL MEAN	7.33		8.36		7.33	
HIGHEST ANNUAL MEAN					8.36	2002
LOWEST ANNUAL MEAN					6.96	1997
HIGHEST DAILY MEAN	8.9	Nov 24	9.4	Feb 23	10	Jan 25 1993
LOWEST DAILY MEAN	6.4	Apr 3	7.6	Sep 9	5.9	May 10 1993
ANNUAL SEVEN-DAY MINIMUM	6.8	Jan 2	8.1	Apr 14	6.2	May 5 1993
MAXIMUM PEAK FLOW			41	Feb 23	41	Feb 23 2002
MAXIMUM PEAK STAGE			2.18	Feb 23	2.18	Feb 23 2002
ANNUAL RUNOFF (AC-FT)	5310		6050		5310	
10 PERCENT EXCEEDS	8.4		8.7		8.1	
50 PERCENT EXCEEDS	7.0		8.4		7.2	
90 PERCENT EXCEEDS	6.9		8.1		6.8	

e Estimated

09415908 PEDERSON EAST SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE $^1/_4$ NE $^1/_4$ sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and 45° V-notch weir. Elevation of gage is 1,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. See schematic diagram of Colorado River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.23 ft^3/s, May 21, June 1, 8, 23 and July 23,2002, gage height, 0.39 ft; minimum daily, 0.19 ft^3/s, many days, August and September 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period May to September, 0.23 ft^3/s, May 21, June 1, 8, 23 and July 23, gage height, 0.39 ft; minimum daily, 0.19 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

1	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.19
2	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
3	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
4	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21
5	---	---	---	---	---	---	---	---	0.21	0.22	0.21	0.20
6	---	---	---	---	---	---	---	---	0.21	0.22	0.21	0.21
7	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21
8	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21
9	---	---	---	---	---	---	---	---	0.21	0.22	0.21	0.20
10	---	---	---	---	---	---	---	0.22	0.21	0.22	0.21	0.20
11	---	---	---	---	---	---	---	0.21	0.21	0.22	0.21	0.20
12	---	---	---	---	---	---	---	0.21	0.21	0.22	0.21	0.21
13	---	---	---	---	---	---	---	0.21	0.21	0.22	0.21	0.20
14	---	---	---	---	---	---	---	0.22	0.21	0.22	0.21	0.20
15	---	---	---	---	---	---	---	0.22	0.21	0.21	0.21	0.20
16	---	---	---	---	---	---	---	0.22	0.21	0.21	0.20	0.21
17	---	---	---	---	---	---	---	0.22	0.21	0.22	0.21	0.21
18	---	---	---	---	---	---	---	0.22	0.21	0.22	0.21	0.20
19	---	---	---	---	---	---	---	0.22	0.22	0.22	0.21	0.19
20	---	---	---	---	---	---	---	0.22	0.22	0.22	0.21	0.19
21	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21	0.19
22	---	---	---	---	---	---	---	0.22	0.22	0.22	0.21	0.19
23	---	---	---	---	---	---	---	0.22	0.22	0.22	0.20	0.19
24	---	---	---	---	---	---	---	0.22	0.22	0.22	0.21	0.19
25	---	---	---	---	---	---	---	0.22	0.22	0.22	0.20	0.19
26	---	---	---	---	---	---	---	0.22	0.22	0.22	0.20	0.19
27	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21	0.19
28	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20	0.19
29	---	---	---	---	---	---	---	0.21	0.22	0.21	0.19	0.19
30	---	---	---	---	---	---	---	0.21	0.22	0.21	0.19	0.19
31	---	---	---	---	---	---	---	0.22	---	0.21	0.19	---
TOTAL	---	---	---	---	---	---	---	---	6.48	6.74	6.40	5.94
MEAN	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
MAX	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.21
MIN	---	---	---	---	---	---	---	---	0.21	0.21	0.19	0.19
AC-FT	---	---	---	---	---	---	---	---	13	13	13	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2002, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
MAX	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002
MIN	---	---	---	---	---	---	---	---	0.22	0.22	0.21	0.20
(WY)	---	---	---	---	---	---	---	---	2002	2002	2002	2002

VIRGIN RIVER BASIN

09415910 PEDERSON SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE $^1/_4$ NE $^1/_4$ sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1986 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder and 45° V-notch weir. Elevation of gage is 1,800 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Records subsequent to 1994 water year to 2001 water year, currently under revision due to changes in weir. See schematic diagram of Colorado River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.34 ft^3/s, August 30, 1992, gage height, 0.64 ft; minimum daily, 0.17 ft^3/s, many days, several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.24 ft^3/s, April 26, May 10, 14; minimum daily, 0.17 ft^3/s, September 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.20	0.19	0.20	0.20	0.20	0.20	0.21	0.22	0.22	0.20	0.18	0.17
2	0.19	0.19	0.20	0.20	0.20	0.19	0.21	0.23	0.21	0.20	0.19	0.17
3	0.19	0.19	0.21	0.20	0.19	0.19	0.21	0.22	0.22	0.20	0.18	0.17
4	0.19	0.19	0.20	0.20	0.19	0.20	0.20	0.22	0.21	0.20	0.18	0.18
5	0.19	0.19	0.20	0.19	0.19	0.20	0.21	0.22	0.21	0.20	0.19	0.18
6	0.19	0.19	0.20	0.20	0.19	0.20	0.21	0.23	0.22	0.20	0.19	0.18
7	0.19	0.19	0.20	0.20	0.19	0.21	0.21	0.23	0.22	0.20	0.19	0.18
8	0.19	0.18	0.19	0.20	0.20	0.20	0.20	0.22	0.21	0.20	0.18	0.18
9	0.19	0.19	0.20	0.20	0.19	0.19	0.20	0.22	0.21	0.20	0.19	0.18
10	0.19	0.19	0.20	0.20	0.18	0.20	0.21	0.23	0.21	0.20	0.19	0.19
11	0.19	0.20	0.20	0.19	0.19	0.20	0.20	0.22	0.21	0.20	0.20	0.18
12	0.19	0.20	0.20	0.20	0.20	0.20	0.19	0.22	0.21	0.21	0.20	0.18
13	0.19	0.20	0.20	0.20	0.19	0.21	0.18	0.22	0.21	0.21	0.19	0.18
14	0.19	0.19	0.20	0.20	0.20	0.20	0.19	0.22	0.21	0.21	0.19	0.17
15	0.19	0.19	0.20	0.20	0.19	0.20	0.21	0.22	0.21	0.20	0.18	0.17
16	0.19	0.19	0.19	0.20	0.19	0.20	0.21	0.22	0.21	0.20	0.17	0.18
17	0.19	0.19	0.20	0.19	0.20	0.20	e0.21	0.22	0.21	0.20	0.17	0.18
18	0.19	0.19	0.20	0.20	0.21	0.19	0.19	0.22	0.21	0.20	0.17	0.18
19	0.19	0.19	0.20	0.20	0.20	0.19	0.20	0.22	0.21	0.20	0.17	0.17
20	0.20	0.19	0.20	0.20	0.20	0.19	0.21	0.22	0.21	0.19	0.17	0.18
21	0.20	0.20	0.20	0.20	0.19	0.20	0.19	0.21	0.21	0.19	0.17	0.18
22	0.20	0.20	0.20	0.20	0.19	0.20	0.19	0.21	0.20	0.19	0.17	0.17
23	0.20	0.20	0.20	0.19	0.20	0.20	0.20	0.22	0.21	0.19	0.17	0.18
24	0.19	0.20	0.20	0.19	0.19	0.20	0.21	0.22	0.21	0.20	0.18	0.18
25	0.19	0.20	0.20	0.20	0.19	0.19	0.22	0.22	0.21	0.19	0.18	0.18
26	0.19	0.20	0.20	0.20	0.19	0.19	0.22	0.22	0.21	0.19	0.18	0.18
27	0.19	0.20	0.20	0.20	0.20	0.20	0.22	0.22	0.21	0.19	0.18	0.18
28	0.19	0.20	0.20	0.20	0.21	0.20	0.22	0.21	0.20	0.19	0.18	0.18
29	0.19	0.20	0.20	0.20	---	0.20	0.22	0.21	0.20	0.18	0.18	0.18
30	0.19	0.20	0.20	0.20	---	0.20	0.22	0.21	0.20	0.19	0.18	0.18
31	0.19	---	0.20	0.19	---	0.20	---	0.22	---	0.18	0.17	---
TOTAL	5.94	5.82	6.19	6.14	5.45	6.14	6.17	6.81	6.30	6.10	5.61	5.34
MEAN	0.19	0.19	0.20	0.20	0.19	0.20	0.21	0.22	0.21	0.20	0.18	0.18
MAX	0.20	0.20	0.21	0.20	0.21	0.21	0.22	0.23	0.22	0.21	0.20	0.19
MIN	0.19	0.18	0.19	0.19	0.18	0.19	0.18	0.21	0.20	0.18	0.17	0.17
AC-FT	12	12	12	12	11	12	12	14	12	12	11	11

CAL YR 2001 TOTAL 75.13 MEAN 0.21 MAX 0.25 MIN 0.18 AC-FT 149
WTR YR 2002 TOTAL 72.01 MEAN 0.20 MAX 0.23 MIN 0.17 AC-FT 143

e Estimated

09415920 WARM SPRINGS WEST NEAR MOAPA, NV

LOCATION.--Lat 36°42'41", long 114°42'48", in SE $^1/_4$ SE $^1/_4$ sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, at U.S. Fish and Wildlife Station, 0.6 mi upstream from confluence with Muddy River, 1.9 mi west of State Highway 168, and 6.5 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to September 1994, June 1996 to current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,770 ft above NGVD of 1929, from topographic map. At datum 0.38 ft higher prior to July 12, 1993.

REMARKS.--No estimated daily discharges. Records good. Diversion for irrigation and fish hatchery above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft^3/s, May 15, 1990, gage height, 2.16 ft; minimum daily, 2.8 ft^3/s, September 28, 29, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.1 ft^3/s, April 10, gage height, 1.02 ft; minimum daily, 3.5 ft^3/s, several days, August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.6	3.6	3.7	3.8	3.8	3.8	3.6	3.6	3.6	3.6	3.6
2	3.6	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
3	3.7	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
4	3.7	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
5	3.7	3.7	3.6	3.7	3.8	3.8	3.8	3.6	3.6	3.6	3.6	3.5
6	3.7	3.7	3.6	3.7	3.8	3.8	3.8	3.6	3.6	3.6	3.6	3.5
7	3.7	3.6	3.6	3.7	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.5
8	3.7	3.6	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.5
9	3.6	3.6	3.7	3.7	3.7	3.7	3.8	3.6	3.6	3.6	3.6	3.5
10	3.6	3.7	3.7	3.7	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6
11	3.6	3.7	3.6	3.7	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.6
12	3.7	3.7	3.6	3.7	3.8	3.7	3.7	3.6	3.6	3.6	3.6	3.6
13	3.7	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
14	3.7	3.7	3.7	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
15	3.7	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
16	3.7	3.7	3.6	3.7	3.8	3.7	3.8	3.6	3.6	3.6	3.6	3.6
17	3.7	3.7	3.6	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6
18	3.7	3.7	3.6	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6
19	3.7	3.7	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6
20	3.7	3.6	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.6	3.6
21	3.7	3.7	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
22	3.7	3.7	3.6	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
23	3.7	3.7	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
24	3.7	3.7	3.6	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
25	3.7	3.6	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
26	3.7	3.6	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.6
27	3.7	3.6	3.7	3.7	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
28	3.7	3.6	3.7	3.8	3.8	3.7	3.6	3.6	3.6	3.6	3.5	3.6
29	3.7	3.6	3.7	3.8	---	3.7	3.6	3.6	3.6	3.6	3.5	3.6
30	3.7	3.6	3.7	3.7	---	3.7	3.6	3.6	3.6	3.6	3.5	3.5
31	3.7	---	3.7	3.7	---	3.8	---	3.6	---	3.6	3.5	---
TOTAL	114.3	109.9	113.0	114.9	106.1	115.3	111.0	111.8	108.0	111.6	110.5	107.4
MEAN	3.69	3.66	3.65	3.71	3.79	3.72	3.70	3.61	3.60	3.60	3.56	3.58
MAX	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.7	3.6	3.6	3.6	3.6
MIN	3.6	3.6	3.6	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5
AC-FT	227	218	224	228	210	229	220	222	214	221	219	213

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	3.65	3.70	3.71	3.70	3.71	3.70	3.70	3.70	3.70	3.65	3.64	3.62
MAX	3.97	4.10	4.04	4.10	4.05	4.11	4.11	4.08	4.00	3.89	3.89	3.93
(WY)	1994	1994	1994	1994	1994	1998	1998	1998	1998	1998	1990	1998
MIN	3.20	3.37	3.34	3.30	3.31	3.23	3.14	3.12	3.20	3.19	3.17	3.29
(WY)	1993	1993	1986	1988	1986	1992	1992	1992	1992	1992	1992	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	1358.6		1333.8			
ANNUAL MEAN	3.72		3.65		3.68	
HIGHEST ANNUAL MEAN					3.96	1998
LOWEST ANNUAL MEAN					3.38	1992
HIGHEST DAILY MEAN	3.8	Jan 1	3.8	Jan 28	4.4	Sep 11 1998
LOWEST DAILY MEAN	3.6	Oct 2	3.5	Aug 21	2.8	Sep 28 1993
ANNUAL SEVEN-DAY MINIMUM	3.6	Nov 25	3.5	Aug 21	3.0	May 12 1992
MAXIMUM PEAK FLOW			4.1	Apr 10	13	May 15 1990
MAXIMUM PEAK STAGE			1.02	Apr 10	2.16	May 15 1990
ANNUAL RUNOFF (AC-FT)	2690		2650		2670	
10 PERCENT EXCEEDS	3.8		3.8		4.0	
50 PERCENT EXCEEDS	3.7		3.6		3.7	
90 PERCENT EXCEEDS	3.7		3.6		3.4	

VIRGIN RIVER BASIN

09415927 WARM SPRINGS CONFLUENCE AT IVERSON FLUME NEAR MOAPA, NV

LOCATION.--Lat 36°42'41.1", long 114°42'31.7", in SW $^1/_4$ SW $^1/_4$ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on right bank, at U.S. Fish and Wildlife Station, 1.9 mi west of State Highway 168, and 6.5 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 2001 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 1,780 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9.9 ft^3/s, May 29, 2002, gage height, 7.52 ft; minimum daily, 7.3 ft^3/s, several days, November and December 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.9 ft^3/s, May 29, 2002, gage height, 7.52 ft; minimum daily, 7.3 ft^3/s, several days, November and December 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.8	7.4	7.4	7.7	7.8	9.0	9.4	9.3	9.1	9.1	8.7	8.5
2	e7.8	7.4	7.5	7.7	7.8	9.0	9.3	9.2	9.2	9.1	8.6	8.5
3	e7.8	7.3	7.5	7.8	7.9	9.1	9.3	9.1	9.2	9.1	8.7	8.5
4	7.8	7.3	7.4	7.8	8.0	9.2	9.2	9.2	9.1	9.2	8.7	8.5
5	7.8	7.3	7.3	7.7	8.0	9.2	9.2	9.4	9.1	9.2	8.8	8.5
6	7.8	7.4	7.3	7.7	8.0	9.2	9.3	9.4	9.1	9.1	8.7	8.5
7	7.8	7.4	7.4	7.7	8.1	9.3	9.2	9.3	9.1	9.1	8.7	8.4
8	7.8	7.3	7.3	7.8	8.0	9.2	9.1	9.2	9.2	9.1	8.7	8.3
9	7.8	7.4	7.5	7.8	8.0	9.2	9.1	9.1	9.2	9.0	8.7	8.3
10	7.8	7.4	7.5	7.7	8.1	9.3	9.2	9.2	9.1	9.0	8.8	8.5
11	7.9	7.5	7.4	7.8	8.3	9.3	9.3	9.1	9.2	9.0	8.7	8.8
12	7.9	7.5	7.4	7.7	8.3	9.3	9.4	9.0	9.3	9.0	8.6	8.7
13	7.9	7.5	7.4	7.7	8.3	9.4	9.5	9.1	9.3	9.0	8.5	8.5
14	7.9	7.5	7.5	7.8	8.4	9.4	9.5	9.1	9.2	9.0	8.6	8.2
15	7.9	7.5	7.4	7.8	8.4	9.4	9.6	9.1	9.1	9.0	8.6	8.2
16	7.8	7.5	7.3	7.8	8.4	9.5	9.5	9.0	9.3	9.0	8.6	8.3
17	7.9	7.5	7.5	7.8	8.5	9.4	9.3	8.9	9.3	9.0	8.5	8.3
18	7.9	7.5	7.5	7.8	8.6	9.4	9.1	8.9	9.1	8.9	8.6	8.2
19	7.7	7.5	7.5	7.8	8.5	9.3	9.2	9.0	9.2	8.8	8.6	8.1
20	7.4	7.5	7.5	7.8	8.5	9.3	9.2	9.0	9.2	8.8	8.6	8.1
21	7.5	7.5	7.5	7.8	8.6	9.4	9.1	9.0	9.2	8.8	8.6	8.0
22	7.4	7.5	7.5	7.8	8.7	9.3	9.2	9.0	9.2	8.8	8.6	8.0
23	7.4	7.5	7.4	7.8	8.7	9.2	9.2	9.1	9.3	8.7	8.6	7.9
24	7.4	7.5	7.3	7.8	8.8	9.3	9.1	9.3	9.3	8.8	8.6	7.9
25	7.4	7.5	7.3	7.8	8.9	9.4	9.0	9.3	9.3	8.8	8.4	8.0
26	7.4	7.5	7.4	7.8	8.9	9.4	9.1	9.3	9.2	8.8	8.5	8.0
27	7.4	7.5	7.4	7.8	8.9	9.4	9.1	9.3	9.1	8.8	8.4	7.9
28	7.4	7.5	7.4	7.8	9.1	9.5	9.0	9.1	9.1	8.8	8.4	7.9
29	7.4	7.5	7.4	7.8	---	9.4	9.2	9.1	9.1	8.8	8.4	7.9
30	7.5	7.5	7.5	7.7	---	9.3	9.2	9.1	9.1	8.8	8.5	7.9
31	7.5	---	7.6	7.8	---	9.3	---	9.1	---	8.7	8.5	---
TOTAL	237.9	223.6	230.2	240.9	234.5	288.3	277.1	283.3	275.5	277.1	266.5	247.3
MEAN	7.67	7.45	7.43	7.77	8.38	9.30	9.24	9.14	9.18	8.94	8.60	8.24
MAX	7.9	7.5	7.6	7.8	9.1	9.5	9.6	9.4	9.3	9.2	8.8	8.8
MIN	7.4	7.3	7.3	7.7	7.8	9.0	9.0	8.9	9.1	8.7	8.4	7.9
AC-FT	472	444	457	478	465	572	550	562	546	550	529	491

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2002, BY WATER YEAR (WY)

MEAN	7.67	7.45	7.43	7.77	7.66	7.47	7.25	7.14	7.18	7.03	7.01	7.05
MAX	7.67	7.45	7.43	7.77	7.66	7.47	7.25	7.14	7.18	7.03	7.01	7.05
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	7.67	7.45	7.43	7.77	7.66	7.47	7.25	7.14	7.18	7.03	7.01	7.05
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2002 WATER YEAR

ANNUAL TOTAL	2679.8	
ANNUAL MEAN	7.34	
HIGHEST DAILY MEAN	7.9	Oct 11
LOWEST DAILY MEAN	6.8	Sep 23
ANNUAL SEVEN-DAY MINIMUM	6.9	Sep 21
MAXIMUM PEAK FLOW	9.9	May 29
MAXIMUM PEAK STAGE	7.52	May 29
ANNUAL RUNOFF (AC-FT)	5320	
10 PERCENT EXCEEDS	7.8	
50 PERCENT EXCEEDS	7.3	
90 PERCENT EXCEEDS	7.0	

e Estimated

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE $^1/_4$ SE $^1/_4$ sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, 9.5 mi upstream from Meadow Valley Wash, and 26 mi upstream from Lake Mead.

DRAINAGE AREA.--3,820 mi^2, approximately, of which about 40 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--July 1913 to September 1915, April 1916 to September 1918, June 1928 to October 1931, April to July 1932, October 1944 to current year.

REVISED RECORDS.--WSP 1243: 1914 (M). WSP 1343: 1950 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder and Cipolletti weir. Recording tipping bucket rain gage with 0.04 inch increment since December 1989. Elevation of gage is 1,710 ft above NGVD of 1929, from river-profile map. October 21, 1944, to September 30, 1948, water-stage recorder at datum 0.08 ft higher.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation above station. Beginning October 1, 1976, records do not include part-time diversion about 100 ft upstream, for cooling of powerplants downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi upstream from station. Flood peaks may be dampened by Arrow Canyon Dam. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft^3/s, August 16, 1990, gage height, 13.33 ft, on basis of slope-area measurement of peak flow; minimum daily, 19 ft^3/s, October 10, 1997. Maximum daily precipitation, 2.12 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep 14	2130	*47	*0.86				

Maximum daily precipitation, 0.88 in. Sep 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	27	31	28	35	31	38	32	30	30	33	33
2	25	25	32	27	37	30	34	37	31	30	34	32
3	25	25	36	27	40	31	31	36	32	31	33	31
4	25	25	33	28	40	29	29	35	32	30	34	31
5	25	27	31	27	37	30	29	35	32	30	33	32
6	25	26	30	28	38	34	34	34	33	31	32	33
7	25	25	26	29	34	37	35	34	32	33	33	35
8	24	25	27	30	33	35	34	34	32	33	32	34
9	25	25	28	32	31	36	34	36	32	33	33	34
10	27	25	28	34	31	37	33	36	33	32	31	36
11	29	26	29	33	31	35	33	35	34	31	34	37
12	31	27	27	32	32	35	32	35	34	31	34	37
13	30	26	25	29	34	35	31	37	33	31	32	37
14	31	24	25	33	35	34	26	35	33	31	32	37
15	30	24	25	34	31	33	33	33	33	29	35	37
16	29	24	27	32	29	34	34	32	32	31	33	37
17	29	25	26	31	31	35	30	31	32	34	30	37
18	27	27	25	31	30	36	31	31	33	34	33	37
19	25	28	26	31	31	35	33	31	34	34	31	37
20	25	27	26	31	32	36	35	30	32	34	30	38
21	27	27	25	32	33	38	35	31	30	33	30	35
22	27	27	24	33	33	37	35	31	31	32	30	35
23	29	27	26	32	32	36	32	32	30	32	30	34
24	29	28	28	30	31	36	31	32	29	32	30	36
25	26	30	28	31	33	36	31	32	32	32	32	35
26	27	31	29	29	35	35	31	32	34	32	31	34
27	29	30	29	29	34	33	31	32	35	32	31	34
28	30	31	29	29	32	33	31	32	31	32	33	34
29	29	31	29	29	---	33	33	31	30	32	30	37
30	29	31	29	33	---	36	32	31	30	32	30	37
31	29	---	30	35	---	40	---	31	---	32	32	---
TOTAL	850	806	869	949	935	1071	971	1026	961	986	991	1053
MEAN	27.4	26.9	28.0	30.6	33.4	34.5	32.4	33.1	32.0	31.8	32.0	35.1
MAX	31	31	36	35	40	40	38	37	35	34	35	38
MIN	24	24	24	27	29	29	26	30	29	29	30	31
AC-FT	1690	1600	1720	1880	1850	2120	1930	2040	1910	1960	1970	2090
†	0.00	0.48	0.28	0.04	0.00	0.56	0.00	0.00	0.28	0.00	0.00	1.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

MEAN	40.1	42.3	43.6	44.4	44.6	43.7	41.7	41.3	39.0	38.7	39.6	40.6
MAX	61.9	61.6	54.9	55.4	58.6	53.5	52.4	48.5	46.1	56.5	61.1	91.2
(WY)	1973	1961	1960	1960	1914	1958	1965	1958	1957	1984	1990	1967
MIN	25.5	26.9	28.0	30.5	30.3	28.9	31.3	33.1	32.0	30.5	27.3	28.9
(WY)	1997	2002	2002	1997	1997	1999	1989	2002	2002	1978	1995	1996

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1913 - 2002	
ANNUAL TOTAL	11455		11466			
ANNUAL MEAN	31.4		31.4		41.5	
HIGHEST ANNUAL MEAN					49.6	1958
LOWEST ANNUAL MEAN					31.4	2002
HIGHEST DAILY MEAN	42	Mar 14	40	Feb 3	930	Aug 16 1990
LOWEST DAILY MEAN	24	Oct 8	24	Oct 8	19	Oct 10 1997
ANNUAL SEVEN-DAY MINIMUM	25	Oct 2	25	Oct 2	23	Oct 16 1995
MAXIMUM PEAK FLOW			47	Sep 14	5760	Aug 16 1990
MAXIMUM PEAK STAGE			0.86	Sep 14	13.33	Aug 16 1990
ANNUAL RUNOFF (AC-FT)	22720		22740		30100	
10 PERCENT EXCEEDS	36		36		49	
50 PERCENT EXCEEDS	31		32		42	
90 PERCENT EXCEEDS	26		26		32	

† Precipitation total, in inches

09418500 MEADOW VALLEY WASH NEAR CALIENTE, NV

LOCATION.--Lat 37°33'20", long 114°33'50", in SW $^1/_4$ NE $^1/_4$ sec.35, T.4 S., R.66 E., Lincoln County, Hydrologic Unit 15010013, on left bank, 0.5 mi east of Etna, 4.5 mi southwest of Caliente, and 6 mi downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi^2.

PERIOD OF RECORD.--January 1951 to September 1960, November 1964 to September 1983, and October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft above NGVD of 1929, by barometer. Prior to June 16, 1955, at site 1.8 mi downstream at different datum. Prior to October 29, 1998 at site 3.0 mi downstream at different datum.

REMARKS.--Records poor. Several diversions for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft^3/s, March 5, 1978, gage height, 9.41 ft, from floodmarks; maximum gage height, 12.58 ft, March 28, 1998; no flow July 26-28, 1966, several days, May through September, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 5	1300	*4.1	*4.13				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.20	0.47	e1.5	e0.95	1.2	0.66	0.55	0.00	0.36	0.17	0.14
2	0.14	0.20	0.84	e1.4	e0.96	1.0	1.0	0.74	0.00	0.12	0.11	0.25
3	0.18	0.20	1.5	e1.5	e0.97	0.99	0.89	0.61	0.10	0.01	0.04	0.29
4	0.20	0.20	3.1	e1.3	e0.97	e1.0	1.1	0.50	0.05	0.00	0.02	0.26
5	0.14	0.20	3.5	e1.3	e0.98	e1.1	1.2	0.39	0.25	0.00	0.02	0.10
6	0.14	0.20	2.4	e1.1	e0.99	e1.2	1.2	0.35	0.16	0.01	0.05	0.07
7	0.14	0.20	1.7	e1.0	e1.0	e1.3	0.68	0.35	0.05	0.01	0.05	0.04
8	0.14	0.41	1.4	e0.97	e1.0	e1.3	0.60	0.33	0.02	0.01	0.06	0.01
9	0.14	0.47	1.6	e0.95	e1.6	e1.2	0.73	0.30	0.02	0.00	0.07	0.00
10	0.14	0.43	1.8	e0.96	e1.4	e1.1	1.2	0.56	0.02	0.00	0.08	0.04
11	0.14	0.79	2.3	e0.96	e1.3	e1.1	1.3	0.90	0.02	0.00	0.06	0.10
12	0.14	1.2	2.4	e0.95	e1.2	e1.1	1.2	0.62	0.02	0.01	0.05	0.05
13	0.14	0.50	1.3	e0.95	e1.1	e1.1	0.49	0.40	0.02	0.01	0.05	0.00
14	0.20	0.40	1.2	e0.98	e1.0	0.99	0.40	0.31	0.02	0.00	0.05	0.05
15	0.20	0.40	1.1	e0.97	e1.3	e1.1	0.36	0.83	0.02	0.00	0.05	0.04
16	0.20	0.36	0.73	e0.95	e1.3	e1.1	0.26	0.69	0.03	0.00	0.06	0.03
17	0.20	0.35	0.65	e0.90	e1.3	e1.2	0.40	0.48	0.12	0.01	0.05	0.01
18	0.20	0.32	0.53	e0.86	e1.4	e1.2	0.38	0.28	0.03	0.02	0.12	0.01
19	0.16	0.30	0.48	0.76	e1.4	e1.2	0.48	0.51	0.06	0.01	0.34	0.00
20	0.14	0.29	0.52	e0.94	e1.4	e1.2	0.57	0.99	0.06	0.00	0.03	0.00
21	0.14	0.25	0.66	e0.95	e1.4	e1.1	0.60	0.79	0.04	0.00	0.00	0.00
22	0.14	0.24	0.79	e0.92	e1.4	e1.0	0.65	0.58	0.00	0.06	0.00	0.05
23	0.14	0.25	0.89	e0.89	e1.5	0.89	0.48	0.10	0.01	0.12	0.00	0.13
24	0.14	0.27	1.1	e0.89	e1.5	0.84	0.40	0.07	0.07	0.09	0.00	0.04
25	0.14	0.33	0.92	e0.93	e1.5	0.85	0.33	0.10	0.19	0.08	0.02	0.00
26	0.14	0.32	0.95	e0.97	1.6	0.65	0.40	0.12	0.23	0.07	0.14	0.17
27	0.17	0.32	1.2	e0.96	1.5	0.62	0.45	0.30	0.32	0.03	0.17	0.45
28	0.19	0.28	e1.3	e0.96	1.5	0.50	0.47	0.13	0.39	0.07	0.21	0.54
29	0.14	0.30	e1.5	e0.98	---	0.62	0.52	0.01	0.34	0.05	0.18	0.47
30	0.19	0.37	e1.8	e0.97	---	0.71	0.51	0.00	0.30	0.03	0.17	0.11
31	0.20	---	e1.7	e0.97	---	0.70	---	0.00	---	0.08	0.09	---
TOTAL	4.95	10.55	42.33	31.59	35.42	31.16	19.91	12.89	2.96	1.26	2.51	3.45
MEAN	0.16	0.35	1.37	1.02	1.26	1.01	0.66	0.42	0.099	0.041	0.081	0.12
MAX	0.20	1.2	3.5	1.5	1.6	1.3	1.3	0.99	0.39	0.36	0.34	0.54
MIN	0.14	0.20	0.47	0.76	0.95	0.50	0.26	0.00	0.00	0.00	0.00	0.00
AC-FT	9.8	21	84	63	70	62	39	26	5.9	2.5	5.0	6.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2002, BY WATER YEAR (WY)

MEAN	2.87	4.36	7.15	13.0	27.6	34.9	16.9	5.96	3.05	2.79	4.89	2.70
MAX	12.6	12.7	27.7	127	297	280	160	28.9	11.5	13.9	44.4	16.8
(WY)	1973	1958	1952	1993	1993	1978	1969	1998	1956	1956	1955	1998
MIN	0.16	0.35	1.37	1.02	1.26	1.01	0.66	0.42	0.099	0.041	0.081	0.11
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1951 - 2002	
ANNUAL TOTAL	1116.33		198.98			
ANNUAL MEAN	3.06		0.55		10.7	
HIGHEST ANNUAL MEAN					61.5	1993
LOWEST ANNUAL MEAN					0.55	2002
HIGHEST DAILY MEAN	37	Mar 10	3.5	Dec 5	1480	Mar 5 1978
LOWEST DAILY MEAN	0.00	Jun 8	0.00	May 30	0.00	Jul 26 1966
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 8	0.00	Jul 9	0.00	Jul 11 2000
MAXIMUM PEAK FLOW			4.1	Dec 5	2400	Mar 5 1978
MAXIMUM PEAK STAGE			4.13	Dec 5	12.58	Mar 28 1998
ANNUAL RUNOFF (AC-FT)	2210		395		7740	
10 PERCENT EXCEEDS	9.0		1.3		16	
50 PERCENT EXCEEDS	0.52		0.35		3.4	
90 PERCENT EXCEEDS	0.08		0.01		1.2	

e Estimated

VIRGIN RIVER BASIN

09418700 MEADOW VALLEY WASH NEAR ROX, NV

LOCATION.--Lat 36°52'09", long 114°39'53", in NW $^1/_4$ NW $^1/_4$ sec.25, T.12 S., R.65 E., Lincoln County, Hydrologic Unit 15010013, on right bank, downstream side of service road wingwall, 0.5 mi south of Rox , and 4.1 mi north of Farrier.

DRAINAGE AREA.--2,384 mi^2.

PERIOD OF RECORD.--February 1987 to September 1994, October 2001 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 1,855 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Several diversions for irrigation above station. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,620 ft^3/s, February 10, 1993, gage height, 7.02 ft; minimum daily, 0.14 ft^3/s August 9, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft^3/s, March 7, gage height, 2.05 ft; minimum daily, 0.23 ft^3/s August 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.55	1.8	1.2	1.2	1.5	1.9	2.1	1.2	0.89	0.46	0.26	0.32
2	0.57	1.9	1.2	1.2	1.5	1.8	1.9	1.3	0.87	0.47	0.26	0.31
3	0.60	1.9	1.2	1.2	1.5	1.8	1.8	1.2	0.89	0.47	0.26	0.30
4	0.64	1.8	1.2	1.2	1.5	1.9	1.8	1.2	0.89	0.46	0.26	0.30
5	0.66	1.9	1.2	1.2	1.5	1.8	1.8	1.2	0.85	0.46	0.28	0.33
6	0.69	1.9	1.2	1.3	1.5	1.8	1.9	1.1	0.62	0.43	0.30	0.36
7	0.74	1.9	1.2	1.3	1.5	2.0	1.9	1.1	0.51	0.42	0.30	0.38
8	0.81	1.6	1.2	1.3	1.5	1.8	1.9	1.1	0.51	0.41	0.30	0.41
9	0.83	1.5	1.2	1.4	1.5	1.7	1.7	1.1	0.53	0.38	0.30	0.41
10	0.83	1.6	1.2	1.3	1.5	1.7	1.6	1.1	0.56	0.39	0.29	0.41
11	0.92	1.6	1.2	1.3	1.5	1.7	1.4	1.1	0.58	0.41	0.28	0.46
12	0.97	1.6	1.2	1.4	1.5	1.7	1.5	1.1	0.61	0.40	0.27	0.46
13	1.0	1.6	1.2	1.4	1.5	1.9	1.5	1.1	0.61	0.37	0.25	0.45
14	0.99	1.6	1.3	1.4	1.5	1.7	1.5	1.1	0.61	0.36	0.24	0.43
15	1.0	1.5	1.3	1.4	1.5	1.8	1.4	1.1	0.60	0.36	0.24	0.42
16	1.1	1.6	1.2	1.4	1.5	1.9	1.6	1.1	0.57	0.37	0.23	0.43
17	1.1	1.6	1.3	1.4	1.6	1.8	1.6	0.93	0.57	0.40	0.24	0.45
18	1.1	1.6	1.3	1.4	1.6	1.9	1.3	0.93	0.55	0.40	0.24	0.48
19	1.1	1.5	1.3	1.4	1.6	1.6	1.4	0.93	0.56	0.37	0.24	0.48
20	1.2	1.6	1.4	1.5	1.7	1.7	1.5	0.94	0.50	0.36	0.26	0.48
21	1.2	1.6	1.4	1.5	1.6	1.8	1.3	1.0	0.51	0.35	0.26	0.48
22	1.3	1.5	1.3	1.5	1.6	1.8	1.2	1.0	0.54	0.32	0.26	0.45
23	1.3	1.2	1.4	1.5	1.8	1.9	1.2	1.0	0.54	0.29	0.26	0.44
24	1.3	1.2	1.3	1.4	1.7	2.0	1.1	1.0	0.52	0.29	0.29	0.43
25	1.4	1.2	1.3	1.5	1.7	1.9	1.2	0.97	0.52	0.29	0.28	0.42
26	1.4	1.2	1.3	1.6	1.7	1.9	1.2	0.97	0.52	0.27	0.28	0.42
27	1.5	1.2	1.2	1.6	1.8	2.1	1.3	0.96	0.50	0.27	0.28	0.43
28	1.6	1.2	1.2	1.6	2.1	2.1	1.2	1.00	0.49	0.28	0.29	0.45
29	1.6	1.3	1.2	1.6	---	2.2	1.2	1.00	0.49	0.29	0.29	0.46
30	1.7	1.2	1.2	1.5	---	2.1	1.2	0.96	0.47	0.28	0.31	0.47
31	1.8	---	1.2	1.5	---	2.1	---	0.92	---	0.27	0.32	---
TOTAL	33.50	46.4	38.7	43.4	44.5	57.8	45.2	32.71	17.98	11.35	8.42	12.52
MEAN	1.08	1.55	1.25	1.40	1.59	1.86	1.51	1.06	0.60	0.37	0.27	0.42
MAX	1.8	1.9	1.4	1.6	2.1	2.2	2.1	1.3	0.89	0.47	0.32	0.48
MIN	0.55	1.2	1.2	1.2	1.5	1.6	1.1	0.92	0.47	0.27	0.23	0.30
AC-FT	66	92	77	86	88	115	90	65	36	23	17	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

MEAN	0.80	1.38	1.69	4.31	12.8	6.15	2.15	1.41	0.76	0.69	0.74	0.75
MAX	1.08	2.98	3.22	21.0	84.2	21.7	3.64	2.07	1.08	1.40	2.52	2.18
(WY)	2002	1988	1988	1993	1993	1992	1988	1989	1993	1992	1988	1990
MIN	0.66	0.95	1.25	1.32	1.42	1.38	1.00	0.79	0.48	0.27	0.27	0.37
(WY)	1992	1990	2002	1989	1990	1994	1994	1994	1994	1994	2002	1994

SUMMARY STATISTICS	FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	392.48			
ANNUAL MEAN	1.08		2.80	
HIGHEST ANNUAL MEAN			10.8	1993
LOWEST ANNUAL MEAN			1.02	1994
HIGHEST DAILY MEAN	2.2	Mar 29	693	Feb 10 1993
LOWEST DAILY MEAN	0.23	Aug 16	0.14	Aug 9 1987
ANNUAL SEVEN-DAY MINIMUM	0.24	Aug 13	0.22	Jul 21 1990
MAXIMUM PEAK FLOW	2.5	Mar 7	1620	Feb 10 1993
MAXIMUM PEAK STAGE	2.05	Mar 7	7.02	Feb 10 1993
ANNUAL RUNOFF (AC-FT)	778		2030	
10 PERCENT EXCEEDS	1.8		2.9	
50 PERCENT EXCEEDS	1.2		1.2	
90 PERCENT EXCEEDS	0.30		0.44	

VIRGIN RIVER BASIN

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in NE $^1/_4$ SW $^1/_4$ sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank, at the Narrows, 150 ft downstream from Weiser Wash, 2 mi southeast of Glendale, 2.4 mi downstream from Meadow Valley Wash, 4.5 mi northwest of Logandale, and 16 mi upstream from Lake Mead.

DRAINAGE AREA.--6,780 mi^2, approximately, of which about 3,000 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--January 1904 to December 1906 (gage heights only) and April to October 1910 (published as "near Moapa"), July 1913 to February 1914 (published as "near Logan"), February 1950 to September 1983, and October 1984 to current year.

REVISED RECORDS.--WSP 1243: 1906 (M). WSP 1733: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,460 ft above NGVD of 1929, from river-profile map. January 1, 1904, to December 31, 1906, non-recording gage just upstream at different datum. April 22, 1910, to February 21, 1914, non-recording gage and rating flume at lower end of the Narrows, 1.2 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft^3/s, August 10, 1981, gage height, 27.10 ft; minimum, 15 ft^3/s, October 10, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 30 ft, March 26, 1906 (datum then in use), discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge greater than base discharge of 210 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 20	1430	*48	*5.07				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	30	34	35	36	39	34	30	e28	e23	28	31
2	27	29	35	35	40	38	34	33	e28	e22	30	31
3	27	30	37	36	42	38	34	34	e28	e23	29	30
4	27	30	37	36	42	40	32	32	e29	21	26	30
5	28	32	35	34	41	40	32	31	e30	22	26	30
6	28	32	35	35	38	40	33	30	e29	23	25	29
7	28	32	35	38	37	41	33	31	e29	24	27	27
8	28	32	36	38	37	41	33	30	e28	25	27	27
9	28	31	36	40	37	40	32	31	e27	27	27	27
10	29	32	36	40	37	41	30	31	e27	27	26	28
11	31	32	35	39	38	41	29	32	e29	26	26	29
12	32	32	35	40	38	40	28	34	e27	25	26	32
13	32	31	34	38	40	39	27	35	e27	26	27	30
14	31	30	34	40	43	38	27	31	e27	27	26	30
15	30	30	34	38	41	38	28	30	e26	28	26	30
16	31	31	34	35	37	35	32	29	e26	29	26	29
17	30	32	33	35	37	35	30	30	e27	31	27	30
18	31	34	32	34	39	37	29	30	e28	32	28	29
19	28	34	32	36	38	37	30	30	e28	29	26	29
20	26	31	32	34	41	37	30	30	e27	29	27	32
21	26	31	32	34	42	39	31	30	e24	30	27	30
22	27	32	32	35	40	37	32	e31	e25	29	27	30
23	29	31	33	35	39	36	31	e30	e23	26	27	29
24	30	32	35	35	40	36	30	e30	e23	26	27	29
25	30	33	35	35	42	35	30	e31	e25	26	28	30
26	30	34	36	33	40	34	30	e31	e28	26	28	32
27	31	33	36	34	40	34	30	e31	e27	27	29	32
28	32	35	36	35	40	33	31	e31	e24	26	29	32
29	32	34	35	34	---	32	31	e30	e23	28	30	32
30	32	33	36	32	---	31	30	e30	e23	28	30	32
31	32	---	38	34	---	33	---	e29	---	27	30	---
TOTAL	911	955	1075	1112	1102	1155	923	958	800	818	848	898
MEAN	29.4	31.8	34.7	35.9	39.4	37.3	30.8	30.9	26.7	26.4	27.4	29.9
MAX	32	35	38	40	43	41	34	35	30	32	30	32
MIN	26	29	32	32	36	31	27	29	23	21	25	27
AC-FT	1810	1890	2130	2210	2190	2290	1830	1900	1590	1620	1680	1780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

MEAN	37.4	44.7	44.9	47.6	54.9	53.6	43.0	38.1	33.7	32.9	40.1	41.4
MAX	61.0	209	58.0	98.0	230	237	100	48.0	50.6	51.5	136	225
(WY)	1973	1961	1961	1969	1993	1983	1969	1991	1965	1961	1981	1998
MIN	23.8	29.8	30.6	34.2	32.0	29.5	27.4	28.2	23.6	23.3	24.1	24.6
(WY)	1997	1996	1997	1998	1997	1989	1989	1997	1997	1990	2001	1996

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1950 - 2002	
ANNUAL TOTAL	11690		11555			
ANNUAL MEAN	32.0		31.7		42.6	
HIGHEST ANNUAL MEAN					60.7	1961
LOWEST ANNUAL MEAN					30.4	1997
HIGHEST DAILY MEAN	60	Mar 10	43	Feb 14	2990	Nov 6 1960
LOWEST DAILY MEAN	22	Aug 3	21	Jul 4	15	Oct 10 1997
ANNUAL SEVEN-DAY MINIMUM	23	Jul 28	22	Jun 29	18	Jul 23 1990
MAXIMUM PEAK FLOW			48	Feb 20	16400	Aug 10 1981
MAXIMUM PEAK STAGE			5.07	Feb 20	27.10	Aug 10 1981
INSTANTANEOUS LOW FLOW			19	Aug 21		
ANNUAL RUNOFF (AC-FT)	23190		22920		30870	
10 PERCENT EXCEEDS	39		38		51	
50 PERCENT EXCEEDS	32		31		38	
90 PERCENT EXCEEDS	24		26		28	

e Estimated

09419507 MUDDY RIVER AT LEWIS AVENUE AT OVERTON, NV

LOCATION.--Lat 36°32'07", long 114°25'42", in NE $^1/_4$ NW $^1/_4$ sec.19, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010012, on left wing wall of upstream side of arched, concrete/corrugated-metal culvert on Lewis Avenue, .25 mi east of State Route 169, .05 mi upstream of Overton Wash, and 1.5 mi upstream from Lake Mead.

DRAINAGE AREA.--6,940 mi^2, of which approximately 3,240 mi^2 contributes directly to surface runoff.

PERIOD OF RECORD.--August 1997 to current year. Records for August and September 1997 available from Southern Nevada Water Authority.

REVISED RECORDS.--WDR NV-99-1: 1998.

GAGE.--Water-stage recorder. Elevation of gage is 1,251 ft above mean sea level, from gps static observation, using NAVD-88, by Southern Nevada Water Authority.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge at gage is predominantly irrigation return flow. An irrigation diversion approximately 7 mi upstream of the gage diverts the entire base flow of the Muddy River. At discharges greater than 215 ft^3/s, flow can bypass the main channel immediately above the gage. See schematic diagram of Colorado River Basin.

COOPERATION.--Records were provided by Southern Nevada Water Authority and reviewed by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1300 ft^3/s, September 12, 1998, gage height 9.88 ft; minimum daily, 3.1 ft^3/s, August 2, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 223 ft^3/s, July 17, gage height, 6.66 ft; minimum daily, 3.3 ft^3/s, July 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	6.7	8.3	8.6	13	e12	e9.1	7.8	9.3	3.6	5.5	16
2	9.1	8.8	9.3	8.5	13	e12	e9.0	13	6.1	3.9	8.6	12
3	6.6	7.4	8.4	9.0	14	e12	e8.9	7.7	8.3	3.9	8.0	12
4	8.1	9.4	9.9	7.6	14	e11	e8.8	5.7	6.8	5.7	5.5	11
5	9.9	8.7	10	8.8	e14	e11	e8.7	6.5	6.5	5.8	7.2	11
6	10	5.0	7.6	8.4	e14	e11	e8.6	10	5.4	4.9	7.0	11
7	11	4.0	7.0	8.2	e14	e11	e8.5	7.4	5.2	7.6	5.4	11
8	10	6.9	5.0	9.0	e14	e11	e8.5	5.9	11	4.1	7.6	11
9	8.1	9.8	6.4	10	e13	e11	e8.4	6.7	5.9	3.3	9.8	11
10	5.9	11	6.2	7.9	e13	e11	e8.3	8.6	4.6	4.2	8.9	11
11	7.2	8.6	7.7	8.5	e13	e11	8.2	6.1	5.4	9.8	11	13
12	13	6.6	10	9.5	e13	e11	11	8.7	4.7	11	10	20
13	12	7.2	7.2	9.1	e13	e11	11	14	5.7	6.4	9.0	21
14	14	9.1	8.3	8.2	e13	e11	12	12	4.7	4.1	7.4	25
15	17	7.7	10	8.9	e13	e11	10	9.0	7.0	3.4	6.6	25
16	14	8.5	8.3	12	e13	e10	6.5	7.1	6.3	3.5	8.9	20
17	9.7	6.5	6.6	14	e13	e10	6.2	11	5.3	14	7.5	19
18	8.6	5.4	5.9	11	e13	e10	8.0	5.9	8.7	13	8.6	17
19	10	12	6.1	11	e13	e10	7.8	8.5	8.1	12	9.1	15
20	8.1	11	6.6	11	e13	e10	7.2	8.6	9.3	5.6	11	15
21	10	7.0	6.7	12	e12	e10	11	9.0	7.4	8.8	8.3	14
22	13	6.0	6.7	12	e12	e9.9	10	13	5.8	8.3	9.0	14
23	7.9	8.5	6.7	12	e12	e9.8	8.8	13	9.4	5.8	8.7	15
24	7.7	9.2	6.9	11	e12	e9.8	7.0	7.8	5.5	4.0	12	15
25	5.9	11	7.5	12	e12	e9.7	6.4	9.8	3.6	3.3	9.7	14
26	9.7	6.7	9.7	12	e12	e9.6	6.0	7.0	5.4	e4.2	9.3	14
27	13	5.9	8.9	13	e12	e9.5	7.4	5.4	5.1	e4.4	9.8	13
28	8.1	8.4	8.1	12	e12	e9.4	9.3	6.5	4.9	4.8	9.4	12
29	8.0	7.2	9.7	12	---	e9.3	12	11	8.1	9.0	9.2	11
30	11	6.8	11	13	---	e9.2	6.3	13	8.0	5.2	12	14
31	6.5	---	10	12	---	e9.1	---	9.5	---	6.9	12	---
TOTAL	299.8	237.0	246.7	322.2	362	323.3	258.9	275.2	197.5	194.5	272.0	443
MEAN	9.67	7.90	7.96	10.4	12.9	10.4	8.63	8.88	6.58	6.27	8.77	14.8
MAX	17	12	11	14	14	12	12	14	11	14	12	25
MIN	5.9	4.0	5.0	7.6	12	9.1	6.0	5.4	3.6	3.3	5.4	11
AC-FT	595	470	489	639	718	641	514	546	392	386	540	879

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	16.5	16.2	11.1	9.25	15.9	18.3	15.6	12.2	8.57	10.8	10.2	20.9
MAX	23.7	21.2	17.7	12.3	33.0	25.0	20.4	16.9	13.8	21.2	18.5	56.2
(WY)	1999	2000	1999	2000	1998	2000	1998	1999	1999	1998	2000	1998
MIN	9.67	7.90	7.96	7.23	9.65	10.4	8.63	8.88	6.58	5.87	6.26	7.33
(WY)	2002	2002	2002	2001	2001	2002	2002	2002	2002	2000	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	3724.1		3432.1			
ANNUAL MEAN	10.2		9.40		13.8	
HIGHEST ANNUAL MEAN					18.9	1998
LOWEST ANNUAL MEAN					9.40	2002
HIGHEST DAILY MEAN	35	Mar 15	25	Sep 14	630	Sep 12 1998
LOWEST DAILY MEAN	3.1	Aug 2	3.3	Jul 9	3.1	Aug 2 2001
ANNUAL SEVEN-DAY MINIMUM	4.0	Jan 28	5.0	Jul 22	4.0	Jan 28 2001
MAXIMUM PEAK FLOW			223	Jul 17	1300	Sep 12 1998
MAXIMUM PEAK STAGE			6.66	Jul 17	9.88	Sep 12 1998
ANNUAL RUNOFF (AC-FT)	7390		6810		9970	
10 PERCENT EXCEEDS	19		13		23	
50 PERCENT EXCEEDS	8.1		9.1		11	
90 PERCENT EXCEEDS	4.6		5.6		5.9	

e Estimated

VIRGIN RIVER BASIN

09419547 BLUE POINT SPRINGS NEAR VALLEY OF FIRE STATE PARK, NV

LOCATION.--Lat 36°23'24", long 114°25'59", in NW $^1/_4$ NE $^1/_4$ sec.7, T.18 S., R.68 E., Clark County, Hydrologic Unit 15010005, on left bank, in Lake Mead National Recreation Area, about 4 mi east of Valley of Fire State Park, and 13 mi south of Overton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1998 to September 1999 (discharge measurements only); October 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,540 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.70 ft^3/s, October 16, 18, 19, 1999, gage height, 4.04 ft; minimum daily, 0.45 ft^3/s, March 8, 9, 2000, January 10 through February 3.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.64 ft^3/s, October 1-7, gage height, 3.99 ft; minimum daily, 0.45 ft^3/s, January 10 through February 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.64	0.54	0.54	0.47	0.45	0.49	0.53	0.54	0.47	0.47	0.47	e0.49
2	0.64	0.54	0.52	0.47	0.45	0.49	0.52	0.54	0.47	0.47	0.48	e0.49
3	0.63	0.54	0.52	0.47	0.45	0.49	0.52	0.54	0.47	0.48	0.48	e0.49
4	0.64	0.54	0.52	0.47	0.46	0.49	0.52	0.54	0.47	0.49	0.47	e0.49
5	0.64	0.54	0.52	0.47	0.47	0.49	0.52	0.54	0.47	0.49	0.47	e0.49
6	0.64	0.54	0.52	0.47	0.47	0.51	0.53	0.54	0.47	0.49	0.47	0.49
7	0.64	0.54	0.49	0.47	0.47	0.53	0.52	0.54	0.48	0.49	0.47	0.49
8	0.62	0.54	0.47	0.47	0.47	0.54	0.52	0.53	0.49	0.49	0.47	0.49
9	0.62	0.54	0.47	0.47	0.47	0.54	0.52	0.54	0.47	0.49	0.47	0.49
10	0.59	0.52	0.48	0.45	0.47	0.54	0.53	0.54	0.47	0.49	0.47	0.49
11	0.60	0.52	0.49	0.45	0.47	0.54	0.53	0.54	0.47	0.49	0.49	0.49
12	0.59	0.52	0.48	0.45	0.48	0.52	0.55	0.53	0.47	0.49	0.49	0.49
13	0.59	0.52	0.47	0.45	0.48	0.51	0.55	0.52	0.47	0.49	0.49	0.49
14	0.59	0.52	0.49	0.45	0.49	0.49	0.56	0.52	0.48	0.49	0.49	0.49
15	0.59	0.52	0.47	0.45	0.47	0.50	0.56	0.52	0.48	0.49	0.49	0.49
16	0.59	0.52	0.47	0.45	0.48	0.49	0.56	0.52	0.47	0.48	0.49	0.49
17	0.59	0.52	0.47	0.45	0.49	0.50	0.56	0.52	0.48	0.47	0.49	0.49
18	0.59	0.52	0.47	0.45	0.48	0.50	0.56	0.52	0.48	0.47	0.49	0.49
19	0.56	0.52	0.47	0.45	0.47	0.52	0.56	0.52	0.49	0.48	0.49	0.49
20	0.56	0.52	0.47	0.45	0.47	0.52	0.56	0.52	0.49	0.48	0.50	0.49
21	0.56	0.49	0.47	0.45	0.47	0.52	0.56	0.52	0.48	0.49	0.50	0.49
22	0.56	0.49	0.47	0.45	0.47	0.53	0.56	0.52	0.47	0.49	0.49	0.49
23	0.56	0.49	0.47	0.45	0.48	0.53	0.56	0.52	0.48	0.48	0.49	0.49
24	0.56	0.50	0.47	0.45	0.50	0.52	0.56	0.52	0.48	0.47	0.49	0.49
25	0.56	0.52	0.47	0.45	0.50	0.52	0.56	0.50	0.48	0.48	0.49	0.49
26	0.56	0.52	0.47	0.45	0.50	0.52	0.56	0.49	0.48	0.49	0.49	0.49
27	0.56	0.52	0.47	0.45	0.52	0.52	0.56	0.49	0.48	0.49	0.49	0.49
28	0.56	0.52	0.48	0.45	0.52	0.53	0.56	0.49	0.48	0.47	0.49	0.49
29	0.56	0.53	0.49	0.45	---	0.54	0.56	0.49	0.47	0.48	e0.49	0.49
30	0.54	0.54	0.49	0.45	---	0.54	0.55	0.49	0.48	0.47	e0.49	0.49
31	0.54	---	0.49	0.45	---	0.54	---	0.48	---	0.47	e0.49	---
TOTAL	18.27	15.70	15.04	14.13	13.37	16.01	16.37	16.13	14.29	14.96	15.03	14.70
MEAN	0.59	0.52	0.49	0.46	0.48	0.52	0.55	0.52	0.48	0.48	0.48	0.49
MAX	0.64	0.54	0.54	0.47	0.52	0.54	0.56	0.54	0.49	0.49	0.50	0.49
MIN	0.54	0.49	0.47	0.45	0.45	0.49	0.52	0.48	0.47	0.47	0.47	0.49
AC-FT	36	31	30	28	27	32	32	32	28	30	30	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

MEAN	0.56	0.57	0.55	0.55	0.53	0.53	0.56	0.53	0.55	0.56	0.56	0.55
MAX	0.59	0.62	0.61	0.65	0.55	0.56	0.57	0.57	0.59	0.61	0.62	0.63
(WY)	2002	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001
MIN	0.52	0.52	0.49	0.46	0.48	0.51	0.55	0.50	0.48	0.48	0.48	0.49
(WY)	2001	2002	2002	2002	2002	2000	2002	2000	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 2000 - 2002	
ANNUAL TOTAL	208.07		184.00			
ANNUAL MEAN	0.57		0.50		0.55	
HIGHEST ANNUAL MEAN					0.57	2001
LOWEST ANNUAL MEAN					0.50	2002
HIGHEST DAILY MEAN	0.64	Sep 20	0.64	Oct 1	0.67	Oct 19 1999
LOWEST DAILY MEAN	0.47	Dec 8	0.45	Jan 10	0.45	Mar 8 2000
ANNUAL SEVEN-DAY MINIMUM	0.47	Dec 15	0.45	Jan 10	0.45	Jan 10 2002
MAXIMUM PEAK FLOW			0.64	Oct 1	0.70	Oct 16 1999
MAXIMUM PEAK STAGE			3.99	Oct 1	4.04	Oct 16 1999
ANNUAL RUNOFF (AC-FT)	413		365		398	
10 PERCENT EXCEEDS	0.62		0.56		0.62	
50 PERCENT EXCEEDS	0.56		0.49		0.56	
90 PERCENT EXCEEDS	0.52		0.47		0.48	

e Estimated

09419550 ROGERS SPRING NEAR OVERTON BEACH, NV

LOCATION.--Lat 36°22'36", long 114°26'33", in SE $^1/_4$ SE $^1/_4$ sec.12, T.18 S., R.67 E., Clark County, Hydrologic Unit 15010005, on left bank, in Lake Mead National Recreation Area, 6.6 mi southwest of Overton Beach, and 14 mi south of Overton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,570 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Minor temporary regulation for recreation upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26 ft^3/s, August 16, 1990, from rating curve extended above 2.2 ft^3/s, on basis of velocity-area study; minimum daily, 0.90 ft^3/s, August 25, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.2 ft^3/s, June 9, gage height, 1.03 ft, result of recreational regulation at pool outlet above gage; minimum daily, 1.7 ft^3/s, most days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.8	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2	1.7	1.7	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
3	1.7	1.7	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
4	1.7	1.7	1.7	1.7	e1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
5	1.7	1.8	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
6	1.7	1.7	1.7	1.7	e1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
7	1.7	1.7	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
10	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
11	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
12	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7
13	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
14	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
15	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
16	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
17	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
18	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
19	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
20	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
21	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
22	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
23	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
24	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
25	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
26	1.9	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
27	1.9	1.7	1.7	e1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
28	1.9	1.7	1.7	e1.7	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7
29	1.9	1.7	1.7	e1.7	---	1.7	1.7	1.7	1.7	1.7	1.7	1.7
30	1.8	1.7	1.7	e1.7	---	1.7	1.7	1.7	1.7	1.7	1.7	1.7
31	1.8	---	1.7	e1.7	---	1.7	---	1.7	---	1.7	1.7	---
TOTAL	55.9	51.2	52.7	52.7	47.7	53.1	51.0	52.7	51.0	52.7	52.7	51.0
MEAN	1.80	1.71	1.70	1.70	1.70	1.71	1.70	1.70	1.70	1.70	1.70	1.70
MAX	1.9	1.8	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7
MIN	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
AC-FT	111	102	105	105	95	105	101	105	101	105	105	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	1.69	1.68	1.66	1.64	1.66	1.63	1.61	1.62	1.67	1.67	1.68	1.67
MAX	1.85	1.92	1.89	2.16	2.28	1.94	1.82	1.80	1.89	1.88	2.02	1.91
(WY)	2000	1991	1993	1993	1993	1993	2000	1995	1993	1993	1993	1993
MIN	1.54	1.55	1.43	1.27	1.23	1.25	1.22	1.37	1.46	1.38	1.35	1.46
(WY)	1996	1997	1997	1986	1992	1987	1987	1992	1992	1992	1992	1989

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	634.3		624.4			
ANNUAL MEAN	1.74		1.71		1.66	
HIGHEST ANNUAL MEAN					1.88	1993
LOWEST ANNUAL MEAN					1.47	1992
HIGHEST DAILY MEAN	1.9	Jul 11	1.9	Oct 16	2.8	Aug 16 1990
LOWEST DAILY MEAN	1.6	Aug 19	1.7	Oct 1	0.90	Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	1.7	Aug 14	1.7	Oct 1	1.1	Feb 25 1986
MAXIMUM PEAK FLOW			3.2	Jun 9	26	Aug 16 1990
MAXIMUM PEAK STAGE			1.03	Jun 9	3.31	Aug 16 1990
ANNUAL RUNOFF (AC-FT)	1260		1240		1200	
10 PERCENT EXCEEDS	1.8		1.7		1.8	
50 PERCENT EXCEEDS	1.7		1.7		1.7	
90 PERCENT EXCEEDS	1.7		1.7		1.5	

e Estimated

09419625 CORN CREEK SPRING AT NATIONAL FISH AND WILDLIFE HEADQUARTERS, NV

LOCATION.--Lat 36°26'20", long 115°21'26", in NW $^1/_4$ NE $^1/_4$ sec.34, T.17 S., R.59 E., Clark County, Hydrologic Unit 15010015, in Desert National Wildlife Range, on right bank, at National Fish and Wildlife Headquarters complex, 4 mi east of U. S. Highway 95, and 20 mi northwest of Las Vegas.

DRAINAGE AREA--Indeterminate.

PERIOD OF RECORD.--July 1985 to September 1994, January 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,790 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.10 ft^3/s, April 2, 1989, gage height, 1.44 ft; minimum daily, 0.24 ft^3/s, many days some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.41 ft^3/s, August 13, gage height, 1.30 ft, backwater from debris on weir; minimum daily, 0.36 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.36	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
2	0.36	0.36	0.37	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
3	0.36	0.36	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
4	0.36	0.36	0.38	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
5	0.36	0.36	0.38	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
6	0.36	0.36	0.38	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
7	0.36	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
8	0.36	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
9	0.37	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
10	0.38	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
11	0.38	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
12	0.37	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
13	0.36	0.37	0.39	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
14	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
15	0.36	0.36	0.39	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
16	0.36	0.36	0.39	0.37	0.39	0.39	0.38	0.39	0.39	0.39	0.38	0.39
17	0.36	0.36	0.39	0.38	0.39	0.39	0.38	0.39	0.39	0.39	0.38	0.39
18	0.36	0.36	0.39	0.37	0.39	0.39	0.38	0.39	0.39	0.39	0.38	0.39
19	0.36	0.36	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
20	0.36	0.38	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
21	0.36	0.38	0.39	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
22	0.36	0.39	0.39	0.36	0.38	0.39	0.39	0.39	0.39	0.39	0.38	0.39
23	0.36	0.39	0.39	0.36	0.38	0.39	0.39	0.39	0.39	0.39	0.38	0.39
24	0.36	0.39	0.39	0.37	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39
25	0.36	0.36	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
26	0.36	0.36	0.39	0.39	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39
27	0.36	0.36	0.39	0.39	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39
28	0.36	0.36	0.39	0.38	0.39	0.39	0.39	0.38	0.39	0.39	0.39	0.39
29	0.36	0.36	0.39	0.39	---	0.39	0.39	0.39	0.39	0.39	0.39	0.39
30	0.36	0.36	0.39	0.38	---	0.39	0.39	0.39	0.39	0.39	0.39	0.39
31	0.36	---	0.38	0.39	---	0.39	---	0.39	---	0.39	0.39	---
TOTAL	11.22	10.94	11.97	11.45	10.87	12.09	11.67	12.08	11.70	12.09	11.92	11.70
MEAN	0.36	0.36	0.39	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
MAX	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
MIN	0.36	0.36	0.36	0.36	0.38	0.39	0.38	0.38	0.39	0.39	0.38	0.39
AC-FT	22	22	24	23	22	24	23	24	23	24	24	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	0.30	0.30	0.31	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
MAX	0.36	0.36	0.39	0.37	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.39
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.24	0.24	0.24	0.25	0.25
(WY)	1987	1987	1987	1987	1987	1987	1994	1987	1987	1987	1987	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	128.82		139.70			
ANNUAL MEAN	0.35		0.38		0.30	
HIGHEST ANNUAL MEAN					0.38	2002
LOWEST ANNUAL MEAN					0.25	1987
HIGHEST DAILY MEAN	0.39	Nov 22	0.39	Nov 22	0.39	Oct 22 2000
LOWEST DAILY MEAN	0.32	Sep 4	0.36	Oct 1	0.24	Jul 14 1985
ANNUAL SEVEN-DAY MINIMUM	0.32	Sep 4	0.36	Oct 1	0.24	May 17 1987
MAXIMUM PEAK FLOW			0.41	Aug 13	1.1	Apr 2 1989
MAXIMUM PEAK STAGE			1.30	Aug 13	1.44	Apr 2 1989
ANNUAL RUNOFF (AC-FT)	256		277		217	
10 PERCENT EXCEEDS	0.37		0.39		0.36	
50 PERCENT EXCEEDS	0.35		0.39		0.28	
90 PERCENT EXCEEDS	0.34		0.36		0.25	

094196497 GOWAN DETENTION BASIN OUTLET NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°14'35", long 115°09'24", in SW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.04, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Camino Al Norte Road, 0.3 mi northeast of Craig Road, and 3.8 mi north of North Las Vegas.

DRAINAGE AREA.--113.06 mi^2.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,060 ft above NGVD of 1929, from topographic map. Prior to October 1, 1995 at datum 9.0 ft lower.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft^3/s, August 9, 1997, gage height, 10.33 ft, maximum gage height, 11.55 ft, July 8, 1999; no flow most of time. Maximum daily precipitation, 1.32 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s, November 24, gage height, 10.23 ft; no flow most days. Maximum daily precipitation, 0.52 inches, February 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.14	0.04	0.04	0.02	0.03	0.02	0.00	0.02	0.02	0.05	0.02
2	0.03	0.10	0.08	0.03	0.01	0.01	0.02	0.00	0.02	0.02	0.02	0.03
3	0.04	0.01	0.10	0.04	0.03	0.01	0.02	0.00	0.04	0.03	0.03	0.02
4	0.03	0.07	0.05	0.00	0.01	0.01	0.02	0.00	0.01	0.03	0.01	0.03
5	0.05	0.15	0.10	0.01	0.29	0.02	0.02	0.01	0.03	0.02	0.01	0.15
6	0.00	0.13	0.11	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.07
7	0.06	0.14	0.02	0.02	0.01	0.02	0.02	0.02	0.00	0.02	0.02	0.03
8	0.07	0.10	0.00	0.06	0.01	0.00	0.01	0.01	0.02	0.02	0.01	0.02
9	0.04	0.00	0.04	0.10	0.01	0.00	0.01	0.02	0.01	0.03	0.01	0.03
10	0.03	0.00	0.10	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03
11	0.06	0.02	0.02	0.00	0.02	0.01	0.11	0.02	0.06	0.02	0.02	0.52
12	0.00	0.08	0.03	0.01	0.03	0.03	0.02	0.00	0.03	0.02	0.00	0.07
13	0.03	0.00	0.00	0.01	0.02	0.01	0.02	0.00	0.02	0.04	0.01	0.04
14	0.03	0.00	0.20	0.00	0.04	0.00	0.03	0.02	0.02	0.03	0.02	0.02
15	0.06	0.00	0.19	0.00	0.03	0.01	0.00	0.02	0.02	0.03	0.02	0.02
16	0.04	0.07	0.02	0.00	0.02	0.02	0.03	0.00	0.01	0.02	0.02	0.04
17	0.00	0.02	0.04	0.00	0.01	0.00	0.01	0.01	0.02	0.08	0.02	0.02
18	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.01	0.12	0.03	0.02
19	0.00	0.00	0.10	0.00	0.01	0.00	0.00	0.00	0.01	0.08	0.02	0.04
20	0.00	0.15	0.06	0.00	0.01	0.05	0.01	0.00	0.03	0.07	0.03	0.03
21	0.11	0.17	0.01	0.00	0.02	0.03	0.04	0.00	0.02	0.07	0.02	0.03
22	0.02	0.11	0.09	0.00	0.02	0.02	0.20	0.20	0.02	0.06	0.02	0.02
23	0.00	0.00	0.00	0.00	0.02	0.00	0.06	0.03	0.02	0.08	0.02	0.03
24	0.00	2.9	0.03	0.00	0.02	0.07	0.03	0.02	0.02	0.09	0.03	0.03
25	0.05	0.24	0.00	0.01	0.03	0.05	0.02	0.01	0.02	0.09	0.03	0.08
26	0.02	0.13	0.00	0.00	0.02	0.03	0.02	0.01	0.02	0.07	0.02	0.02
27	0.04	0.14	0.00	0.00	0.02	0.03	0.00	0.01	0.02	0.07	0.03	0.02
28	0.02	0.09	0.02	0.00	0.04	0.03	0.00	0.05	0.02	0.05	0.02	0.02
29	0.00	0.03	0.03	0.00	---	0.02	0.01	0.06	0.02	0.04	0.02	0.02
30	0.00	0.00	0.05	0.01	---	0.02	0.00	0.02	0.02	0.04	0.02	0.02
31	0.07	---	0.04	0.03	---	0.03	---	0.02	---	0.02	0.03	---
TOTAL	0.92	4.99	1.58	0.39	0.80	0.59	0.81	0.59	0.62	1.42	0.65	1.54
MEAN	0.030	0.17	0.051	0.013	0.029	0.019	0.027	0.019	0.021	0.046	0.021	0.051
MAX	0.11	2.9	0.20	0.10	0.29	0.07	0.20	0.20	0.06	0.12	0.05	0.52
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02
AC-FT	1.8	9.9	3.1	0.8	1.6	1.2	1.6	1.2	1.2	2.8	1.3	3.1
†	0.00	0.20	0.04	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	0.17	0.33	0.38	0.81	3.98	1.03	0.93	0.55	0.29	2.28	0.96	1.31
MAX	0.62	2.89	1.79	5.47	16.1	7.21	5.69	4.44	1.09	17.6	5.75	7.79
(WY)	2001	1997	1995	1995	1998	1998	1997	1997	1997	1999	2000	1998
MIN	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.012	0.000
(WY)	1992	1993	1994	1994	1999	1993	1992	1993	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	337.78		14.94			
ANNUAL MEAN	0.93		0.041		1.16	
HIGHEST ANNUAL MEAN					2.79	1998
LOWEST ANNUAL MEAN					0.041	2002
HIGHEST DAILY MEAN	162	Feb 28	2.9	Nov 24	290	Jul 9 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 6	0.00	Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 16	0.00	Jan 14	0.00	Oct 1 1991
MAXIMUM PEAK FLOW			33	Nov 24	644	Aug 9 1997
MAXIMUM PEAK STAGE			10.23	Nov 24	11.55	Jul 8 1999
ANNUAL RUNOFF (AC-FT)	670		30		844	
10 PERCENT EXCEEDS	0.13		0.08		0.37	
50 PERCENT EXCEEDS	0.03		0.02		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

† Precipitation total, in inches

094196557 LAS VEGAS CREEK AT MEADOWS DETENTION BASIN AT LAS VEGAS, NV

LOCATION.--Lat 36°10'30", long 115°10'50", in SE $^1/_4$ SW $^1/_4$ sec.29, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank upstream of box culvert, 0.1 mi. downstream of Las Vegas Valley Water District reservoir, and 0.4 mi east of intersection of U.S. Highway 95 and Rancho Boulevard.

DRAINAGE AREA.--6.57 mi^2.

PERIOD OF RECORD.--March 1989 to March 20, 2002. Gage temporarily discontinued due to rehabilitation project on detention basin. Records prior to October 1993 not published but are available in files of U.S. Geological Survey.

REVISED RECORDS.-- WDR NV-99-1: 1996-98 (m).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,100 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft^3/s, July 15, 1996, gage height, 11.44 ft; maximum gage height, 11.76 ft., June 10, 1990; minimum daily, 0.02 ft^3/s, many days November 1997 to February 1998. Maximum daily precipitation, 1.72 inches, February 8, 1993

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period, October to March 20, 29 ft^3/s November 24, gage height, 10.60 ft; minimum daily, 0.15 ft^3/s, March 16-18. Maximum daily precipitation, 0.16 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.47	0.61	0.42	0.28	0.49	1.00	---	---	---	---	---	---
2	0.29	0.65	0.31	0.28	0.46	0.70	---	---	---	---	---	---
3	0.45	0.55	0.43	0.29	0.53	0.64	---	---	---	---	---	---
4	0.42	0.48	0.42	0.47	0.72	6.4	---	---	---	---	---	---
5	0.41	0.51	0.31	0.29	0.55	10	---	---	---	---	---	---
6	0.45	0.53	0.31	0.27	0.57	8.1	---	---	---	---	---	---
7	0.43	0.58	0.31	0.34	0.57	4.1	---	---	---	---	---	---
8	0.41	0.55	0.31	0.45	0.58	0.38	---	---	---	---	---	---
9	0.41	0.50	0.31	0.46	0.64	0.31	---	---	---	---	---	---
10	0.34	0.61	0.36	0.45	0.58	0.31	---	---	---	---	---	---
11	0.31	0.58	0.30	0.45	0.88	0.31	---	---	---	---	---	---
12	0.31	0.55	0.26	0.45	0.99	0.31	---	---	---	---	---	---
13	0.56	0.45	0.31	0.47	0.68	2.4	---	---	---	---	---	---
14	0.34	1.1	1.1	0.45	0.76	0.21	---	---	---	---	---	---
15	0.41	0.92	0.26	0.45	0.75	0.19	---	---	---	---	---	---
16	0.42	0.44	0.20	0.45	0.72	0.15	---	---	---	---	---	---
17	0.55	0.45	0.25	0.45	0.69	0.15	---	---	---	---	---	---
18	0.52	0.48	0.20	0.90	0.65	0.15	---	---	---	---	---	---
19	0.54	0.47	0.20	0.46	0.65	0.19	---	---	---	---	---	---
20	0.54	0.47	0.20	0.44	0.76	---	---	---	---	---	---	---
21	0.53	0.47	0.26	0.49	0.65	---	---	---	---	---	---	---
22	0.53	0.46	0.22	0.46	1.0	---	---	---	---	---	---	---
23	0.53	0.46	0.80	0.48	0.67	---	---	---	---	---	---	---
24	0.48	3.9	0.31	0.45	0.66	---	---	---	---	---	---	---
25	0.50	1.1	0.31	0.44	0.70	---	---	---	---	---	---	---
26	0.47	0.53	0.31	0.46	0.64	---	---	---	---	---	---	---
27	0.54	0.46	0.31	0.46	0.73	---	---	---	---	---	---	---
28	0.62	0.46	0.32	0.46	0.68	---	---	---	---	---	---	---
29	0.74	0.45	0.22	0.47	---	---	---	---	---	---	---	---
30	0.59	0.45	0.28	0.49	---	---	---	---	---	---	---	---
31	0.60	---	0.30	0.47	---	---	---	---	---	---	---	---
TOTAL	14.71	20.22	10.41	13.68	18.95	---	---	---	---	---	---	---
MEAN	0.47	0.67	0.34	0.44	0.68	---	---	---	---	---	---	---
MAX	0.74	3.9	1.1	0.90	1.0	---	---	---	---	---	---	---
MIN	0.29	0.44	0.20	0.27	0.46	---	---	---	---	---	---	---
AC-FT	29	40	21	27	38	---	---	---	---	---	---	---
†	0.00	0.16	0.08	0.00	0.00	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	0.50	0.53	0.49	0.73	1.19	0.90	0.64	0.94	0.94	1.22	0.93	0.88
MAX	1.35	1.43	2.01	4.46	3.64	2.15	1.79	3.16	2.63	6.17	2.97	3.43
(WY)	1994	1997	1995	1995	2001	1992	1996	1997	1997	1999	1997	1997
MIN	0.080	0.073	0.11	0.10	0.10	0.15	0.20	0.19	0.17	0.14	0.30	0.21
(WY)	1996	2001	2001	1994	1996	1999	1992	1999	1992	1992	1992	2000

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	282.04			
ANNUAL MEAN	0.77		0.83	
HIGHEST ANNUAL MEAN			1.41	1997
LOWEST ANNUAL MEAN			0.38	1991
HIGHEST DAILY MEAN	48	Feb 28	73	Jul 9 1999
LOWEST DAILY MEAN	0.09	Apr 8	0.02	Nov 28 1997
ANNUAL SEVEN-DAY MINIMUM	0.09	Jul 16	0.02	Nov 28 1997
MAXIMUM PEAK FLOW			195	Jul 15 1996
MAXIMUM PEAK STAGE			11.76	Jun 10 1990
ANNUAL RUNOFF (AC-FT)	559		603	
10 PERCENT EXCEEDS	0.69		1.4	
50 PERCENT EXCEEDS	0.29		0.31	
90 PERCENT EXCEEDS	0.10		0.10	

† Precipitation total, in inches

09419658 LAS VEGAS WASH NEAR SAHARA AVENUE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'47", long 115°03'07", in SW $^1/_4$ SE $^1/_4$ sec.4, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on south side of golf cart bridge, 1,200 ft south at Sahara Avenue and 0.5 mi east of Nellis Boulevard.

DRAINAGE AREA.--1,146 mi^2.

PERIOD OF RECORD.--March 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.01 inch increment. Elevation of gage is 1,715 ft above NGVD of 1929, from topographic map. Prior to October 14, 1994, at site 1,200 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft^3/s, July 8, 1999, gage height, 13.69 ft; no flow many days, some years. Maximum daily precipitation, 1.56 inches, June 10, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 398 ft^3/s, November 24, gage height, 10.50 ft; minimum daily, 0.21 ft^3/s, March 2. Maximum daily precipitation, 0.18 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.9	4.0	2.2	3.5	4.6	6.4	4.1	3.2	3.6	4.1	5.3
2	3.4	1.9	4.1	2.3	3.3	0.21	6.8	4.3	3.1	3.5	3.9	5.0
3	3.2	2.0	4.3	2.5	3.3	4.0	5.8	4.6	3.3	3.6	3.9	4.7
4	3.2	2.0	4.4	2.6	3.5	4.4	5.7	4.5	3.6	3.5	3.9	4.3
5	3.0	3.0	4.4	2.5	3.1	5.1	6.4	4.6	2.6	3.5	3.9	4.3
6	3.0	2.1	4.8	2.5	3.1	4.6	6.4	4.6	4.7	3.6	3.8	4.2
7	2.9	2.1	5.8	2.6	4.0	4.2	6.4	4.4	3.3	3.6	4.0	4.2
8	2.8	2.1	5.1	2.9	4.1	4.3	7.0	4.0	3.1	3.6	4.0	4.4
9	2.6	2.6	5.0	2.9	4.2	4.3	5.9	4.0	3.1	3.6	4.0	4.6
10	2.4	3.4	4.4	3.2	4.7	4.5	5.6	5.0	3.3	3.5	4.0	4.6
11	2.3	3.9	2.3	3.4	5.3	4.6	5.5	4.7	3.4	3.5	4.1	13
12	2.4	4.2	2.5	3.2	4.9	4.9	5.8	4.3	3.4	3.5	4.2	7.6
13	2.3	4.2	2.5	3.1	4.9	5.5	5.2	4.5	3.4	3.5	4.1	4.8
14	2.2	4.9	3.7	3.3	4.6	4.8	4.9	4.6	3.3	3.4	4.2	4.5
15	2.7	4.2	4.8	3.4	3.1	5.1	5.0	4.9	3.3	3.4	3.9	4.6
16	2.6	3.9	1.9	3.6	5.5	5.4	4.9	5.0	3.3	3.6	4.0	4.5
17	2.1	3.9	2.2	3.2	5.7	5.8	4.7	5.2	3.3	3.5	4.2	4.5
18	2.2	3.9	2.0	3.4	6.1	6.2	4.4	5.2	3.2	4.8	4.0	4.4
19	2.1	3.9	2.0	3.3	5.5	6.6	4.1	5.2	3.4	4.1	3.9	4.2
20	2.0	4.8	2.3	3.2	4.8	7.2	4.4	5.0	3.1	3.5	4.1	2.6
21	2.0	4.4	2.0	3.4	4.2	7.6	4.2	5.0	5.5	3.5	4.1	4.6
22	2.7	4.4	2.0	3.3	4.7	7.9	4.4	4.7	7.7	3.6	4.3	4.6
23	3.1	4.1	2.2	2.9	5.2	7.7	5.4	5.2	3.7	3.5	4.0	4.5
24	2.6	31	2.2	2.8	5.2	35	4.5	3.9	3.7	3.6	4.3	4.6
25	1.9	22	1.9	2.9	4.7	12	4.5	3.9	3.6	3.8	4.6	4.4
26	3.0	5.5	1.9	2.8	5.3	6.7	4.7	3.9	3.6	3.5	4.9	4.1
27	4.3	5.5	2.0	3.0	4.9	6.8	4.3	3.8	4.3	3.5	5.0	3.7
28	4.5	4.0	2.0	3.1	6.7	6.5	4.0	3.8	3.7	3.6	4.8	2.0
29	2.8	3.9	2.0	3.3	---	6.6	4.3	4.1	3.6	3.5	4.9	1.2
30	2.0	4.5	2.0	3.4	---	6.3	4.0	3.3	3.6	2.6	5.0	2.3
31	1.9	---	2.1	3.7	---	6.4	---	3.5	---	4.5	5.2	---
TOTAL	83.7	154.2	94.8	93.9	128.1	205.81	155.6	137.8	109.4	111.6	131.3	136.3
MEAN	2.70	5.14	3.06	3.03	4.58	6.64	5.19	4.45	3.65	3.60	4.24	4.54
MAX	4.5	31	5.8	3.7	6.7	35	7.0	5.2	7.7	4.8	5.2	13
MIN	1.9	1.9	1.9	2.2	3.1	0.21	4.0	3.3	2.6	2.6	3.8	1.2
AC-FT	166	306	188	186	254	408	309	273	217	221	260	270
†	0.00	0.22	0.02	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	3.10	3.37	3.61	8.14	16.5	7.90	3.74	3.45	3.68	7.21	6.45	7.23
MAX	13.0	9.11	14.5	50.0	61.6	44.0	13.4	6.16	12.9	59.0	15.6	41.9
(WY)	1993	1997	1993	1995	2001	1992	1999	1989	1990	1999	1997	1997
MIN	0.73	0.18	0.016	0.000	0.77	0.94	0.85	1.33	0.74	0.74	1.01	0.96
(WY)	1990	1996	1996	1991	1996	1990	1996	1990	1989	1989	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	3419.66		1542.51			
ANNUAL MEAN	9.37		4.23		6.26	
HIGHEST ANNUAL MEAN					12.4	1998
LOWEST ANNUAL MEAN					1.44	1996
HIGHEST DAILY MEAN	789	Feb 28	35	Mar 24	948	Jul 8 1999
LOWEST DAILY MEAN	0.96	Feb 2	0.21	Mar 2	0.00	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	1.1	Jan 30	2.0	Dec 25	0.00	Dec 21 1990
MAXIMUM PEAK FLOW			398	Nov 24	8100	Jul 8 1999
MAXIMUM PEAK STAGE			10.50	Nov 24	16.27	Jun 10 1990
INSTANTANEOUS LOW FLOW			0.00	Mar 2	0.00	Mar 2 2002
ANNUAL RUNOFF (AC-FT)	6780		3060		4540	
10 PERCENT EXCEEDS	7.2		5.5		6.0	
50 PERCENT EXCEEDS	3.7		4.0		1.9	
90 PERCENT EXCEEDS	2.0		2.3		0.67	

† Precipitation total, in inches

09419659 SLOAN CHANNEL TRIBUTARY AT LAS VEGAS BOULEVARD NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°13'46", long 115°04'45", in SE $^1/_4$ NW $^1/_4$ sec.08, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Las Vegas Boulevard, 0.25 mi east of Lamb Boulevard, and 3.2 mi northeast of North Las Vegas.

DRAINAGE AREA.--17.51 mi^2.

PERIOD OF RECORD.--January 1988 to current year.

REVISED RECORDS.--WDR NV-98-1: 1994(M).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,850.03 ft above NAVD88.

REMARKS.--Records good. See schematic diagram of Colorado River Basin. Records prior to 1994 water year were not published but are available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft^3/s, September 11, 1998, gage height, 15.34 ft; no flow most days, most years. Maximum daily precipitation, 1.92 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--No flow this year. Maximum daily precipitation, 0.16 inches, September 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
†	0.00	0.12	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	0.007	0.001	0.018	0.018	0.19	0.15	0.000	0.013	0.011	0.084	0.098	0.17
MAX	0.097	0.013	0.23	0.14	0.80	1.30	0.000	0.19	0.11	1.05	0.67	2.22
(WY)	1993	1997	1992	1995	1998	1992	1988	1989	1990	1999	1997	1998
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1989	1989	1989	1989	1988	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	14.44		0.00			
ANNUAL MEAN	0.040		0.000		0.066	
HIGHEST ANNUAL MEAN					0.26	1998
LOWEST ANNUAL MEAN					0.000	1996
HIGHEST DAILY MEAN	10	Feb 27	0.00	Oct 1	65	Sep 11 1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jan 26 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jan 26 1988
MAXIMUM PEAK FLOW					920	Sep 11 1998
MAXIMUM PEAK STAGE					15.34	Sep 11 1998
ANNUAL RUNOFF (AC-FT)	29		0.00		48	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

† Precipitation total, in inches

LAS VEGAS VALLEY

09419665 SLOAN CHANNEL AT CHARLESTON BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°09'35", long 115°02'40", in SE $^1/_4$ SE $^1/_4$ sec.33, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on upstream side of box culvert on Charleston Boulevard, and 1.0 mi east of Nellis Boulevard.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Prior to May 24, 2001 flows below 50 ft^3/s not recorded by gage. After May 24, 2001 all flows recorded by gage. Estimated daily discharges during periods of base flow are only an indication of some small amount of flow at site. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft^3/s, September 11, 1998, gage height, 11.41 ft; no flow at times, most years. Maximum daily precipitation, 1.72 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 136 ft^3/s, September 11, gage height, 10.54 ft; minimum daily, 0.01 ft^3/s, July 12. Maximum daily precipitation, 0.24 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.69	0.24	0.18	0.22	e0.22	0.21	0.16	0.22	e0.22	e0.22	0.05	0.18
2	0.63	0.24	0.18	0.22	e0.22	0.19	0.17	0.24	e0.22	e0.22	0.04	0.15
3	0.51	0.24	0.19	0.23	e0.22	0.21	0.20	0.24	e0.22	e0.22	0.04	0.18
4	0.41	0.22	0.16	0.24	e0.22	0.21	0.19	0.24	e0.22	e0.22	0.07	0.17
5	0.42	2.2	0.20	0.22	e0.22	0.21	0.19	0.25	e0.22	e0.22	0.06	0.19
6	0.43	0.21	0.22	0.23	e0.22	0.22	0.21	0.21	e0.22	0.12	0.04	0.19
7	0.29	0.27	0.27	0.21	e0.22	0.24	0.18	0.20	e0.22	0.16	0.06	0.18
8	0.29	0.25	0.29	0.17	e0.22	0.22	0.19	0.15	e0.22	0.09	0.19	0.15
9	0.27	0.28	0.26	0.20	e0.22	0.17	0.18	0.22	e0.22	0.06	0.06	0.16
10	0.27	0.31	0.29	0.19	e0.22	0.19	0.17	e0.22	e0.22	0.03	0.13	0.17
11	0.21	0.32	0.31	0.21	e0.22	0.20	0.19	0.26	e0.22	0.03	e0.10	9.8
12	0.20	0.32	0.31	0.31	0.25	0.20	0.19	e0.22	e0.22	0.01	e0.10	0.09
13	0.21	0.31	0.31	0.30	0.25	0.20	0.16	e0.22	e0.22	0.06	e0.10	0.11
14	0.17	0.32	0.33	0.16	0.23	0.22	0.19	0.18	e0.22	0.12	e0.10	0.12
15	0.16	0.31	0.19	0.17	0.26	0.22	0.21	0.15	e0.22	0.07	e0.10	0.10
16	0.22	0.31	0.22	0.16	0.25	0.21	0.22	e0.22	e0.22	0.38	e0.10	0.07
17	0.23	0.34	0.22	0.18	0.31	0.22	0.28	e0.22	e0.22	0.39	e0.10	0.08
18	0.23	0.30	0.22	0.17	0.26	0.19	0.22	e0.22	e0.22	0.60	e0.10	0.07
19	0.23	0.31	0.22	0.17	0.20	0.19	0.22	e0.22	e0.22	0.07	e0.10	0.07
20	0.22	0.31	0.22	0.16	0.21	0.20	0.22	e0.22	e0.22	0.05	e0.10	0.09
21	0.22	0.38	0.22	0.16	0.20	0.21	0.22	e0.22	e0.22	0.08	0.12	0.10
22	0.23	0.32	0.22	0.16	0.21	0.19	0.23	e0.22	e0.22	0.27	0.11	0.11
23	0.22	0.32	0.22	0.18	0.22	0.21	0.29	e0.22	e0.22	0.04	0.13	0.10
24	0.20	7.2	0.22	0.15	0.23	0.20	0.28	e0.22	e0.22	0.04	0.13	0.11
25	0.20	0.31	0.22	0.13	0.24	0.17	0.31	e0.22	e0.22	0.05	0.13	0.13
26	0.22	0.19	0.22	0.11	0.23	0.18	0.36	e0.22	e0.22	0.04	0.12	0.14
27	0.21	0.19	0.22	0.11	0.21	0.18	0.35	e0.22	e0.22	0.04	e0.10	0.12
28	0.21	0.20	0.22	0.11	0.21	0.19	0.24	e0.22	e0.22	0.04	e0.10	0.13
29	0.21	0.18	0.22	0.08	---	0.17	0.26	e0.22	e0.22	0.04	e0.10	0.14
30	0.22	0.17	0.22	0.07	---	0.16	0.27	e0.22	e0.22	0.03	e0.10	0.13
31	0.22	---	0.22	0.19	---	0.17	---	e0.22	---	0.04	e0.10	---
TOTAL	8.65	17.07	7.21	5.57	6.39	6.15	6.75	6.74	6.60	4.05	2.98	13.53
MEAN	0.28	0.57	0.23	0.18	0.23	0.20	0.23	0.22	0.22	0.13	0.096	0.45
MAX	0.69	7.2	0.33	0.31	0.31	0.24	0.36	0.26	0.22	0.60	0.19	9.8
MIN	0.16	0.17	0.16	0.07	0.20	0.16	0.16	0.15	0.22	0.01	0.04	0.07
AC-FT	17	34	14	11	13	12	13	13	13	8.0	5.9	27
†	0.04	0.28	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	0.26	0.16	0.063	0.23	1.27	0.28	0.028	0.063	0.25	0.49	0.52	0.60
MAX	2.39	1.15	0.25	1.97	5.30	2.73	0.22	0.27	1.43	2.43	2.58	7.59
(WY)	1993	1992	1999	1992	1998	1992	2002	2001	1990	1998	1997	1998
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1989	1989	1989	1990	1989	1988	1988	1988	1988	1988	1990	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	274.06		91.69			
ANNUAL MEAN	0.75		0.25		0.36	
HIGHEST ANNUAL MEAN					1.46	1998
LOWEST ANNUAL MEAN					0.000	1996
HIGHEST DAILY MEAN	92	Feb 28	9.8	Sep 11	208	Sep 11 1998
LOWEST DAILY MEAN	0.01	Jan 1	0.01	Jul 12	0.00	Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	0.01	Jan 1	0.04	Jul 24	0.00	Mar 1 1988
MAXIMUM PEAK FLOW			136	Sep 11	1230	Sep 11 1998
MAXIMUM PEAK STAGE			10.54	Sep 11	11.72	Aug 9 1997
ANNUAL RUNOFF (AC-FT)	544		182		259	
10 PERCENT EXCEEDS	0.51		0.30		0.21	
50 PERCENT EXCEEDS	0.22		0.22		0.00	
90 PERCENT EXCEEDS	0.02		0.10		0.00	

e Estimated
† Precipitation total, in inches

09419674 FLAMINGO WASH AT DECATUR BOULEVARD AT LAS VEGAS, NV

LOCATION.--Lat 36°06'10", long 115°12'25", in SE $^1/_4$ SE $^1/_4$ sec.24, T.21 S., R.60 E., Clark County, Hydrologic Unit 15010015, on upstream middle concrete box culvert on Decatur Boulevard, and 0.1 mi north of Tropicana Avenue.

DRAINAGE AREA.--100.57 mi^2.

PERIOD OF RECORD.--August 1983 to August 1983, October 1990, operated as miscellaneous and partial record site, October 1992 to current year. Records prior to February 1992 not published but are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,233.40 ft above NAVD88.

REMARKS.--No estimated daily discharges. Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,760 ft^3/s, August 10, 1983, gage height, 21.76 ft; no flow most of time. Maximum daily precipitation, 1.52 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s, July 17, gage height, 10.16 ft; no flow most days. Maximum daily precipitation, 0.20 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.2
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	3.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.36	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.7	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	6.2	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	4.6	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	10.80	3.10	0.00	0.00	1.57	0.00	0.00	0.00	10.03	0.36	10.70
MEAN	0.000	0.36	0.10	0.000	0.000	0.051	0.000	0.000	0.000	0.32	0.012	0.36
MAX	0.00	6.2	3.1	0.00	0.00	1.4	0.00	0.00	0.00	7.7	0.36	9.5
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	21	6.1	0.00	0.00	3.1	0.00	0.00	0.00	20	0.7	21
†	0.00	0.20	0.09	0.00	0.00	0.07	0.00	0.00	0.00	0.17	0.00	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	0.18	0.25	0.28	0.79	2.17	0.93	0.20	0.026	0.059	1.41	0.52	0.92
MAX	0.77	2.02	1.61	5.33	7.74	7.90	2.13	0.23	0.27	11.8	1.97	6.49
(WY)	2001	1997	1995	1995	1993	1992	1999	1992	1999	1999	1997	1997
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1994	1993	1994	1994	1995	1993	1992	1993	1993	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	170.76		36.56			
ANNUAL MEAN	0.47		0.10		0.59	
HIGHEST ANNUAL MEAN					1.29	1999
LOWEST ANNUAL MEAN					0.070	1996
HIGHEST DAILY MEAN	48	Feb 26	9.5	Sep 11	331	Jul 8 1999
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Feb 1 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Feb 20 1992
MAXIMUM PEAK FLOW			36	Jul 17	4760	Aug 10 1983
MAXIMUM PEAK STAGE			10.16	Jul 17	21.76	Aug 10 1983
ANNUAL RUNOFF (AC-FT)	339		73		425	
10 PERCENT EXCEEDS	0.00		0.00		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

† Precipitation total, in inches

LAS VEGAS VALLEY

094196781 FLAMINGO WASH AT NELLIS BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'32", long 115°03'55" (revised), in NE $^1/_4$ NE $^1/_4$ sec.8, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on west side of concrete box culvert on Nellis Boulevard, and 0.25 mi north of Sahara Avenue.

DRAINAGE AREA.--215 mi^2.

PERIOD OF RECORD.--March 1988 to current year. Water year 1988-89 not published but are available in files of the U.S. Geological Survey. Computations of 1988 water year did not include daily base flow.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

REVISIONS.--WDR NV-96-1: 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,600 ft^3/s, July 8, 1999, gage height, 15.43 ft, on basis of slope-area measurement of peak flow; maximum gage height, 15.90 ft, June 10, 1990; minimum daily, 1.4 ft^3/s, November 3, 1991 and May 12, 1998. Maximum daily precipitation, 1.52 inches, June 10, 1990 and February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 149 ft^3/s, September 11, gage height, 10.46 ft; minimum daily, 5.4 ft^3/s, September 4, 8. Maximum daily precipitation, 0.20 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	10	8.3	7.6	7.2	8.3	9.0	8.3	6.1	7.6	9.0	e6.1
2	8.6	10	8.3	7.6	7.6	8.3	9.0	8.3	6.1	7.6	9.0	e6.0
3	8.5	11	8.1	7.6	7.6	8.3	9.0	8.3	6.1	8.3	9.0	e5.8
4	8.8	11	7.6	7.6	7.6	8.3	9.0	8.3	6.4	8.3	9.0	e5.4
5	8.4	12	7.6	7.6	7.6	8.3	9.0	7.7	6.5	8.3	9.0	e5.8
6	8.6	14	7.6	7.6	7.6	8.3	9.0	8.1	6.5	8.3	9.0	e5.8
7	8.5	14	7.6	7.6	7.6	8.3	9.0	7.6	6.5	8.3	9.0	e6.0
8	9.0	12	7.6	7.6	7.6	8.1	9.0	7.6	6.5	8.3	9.0	e5.4
9	9.0	13	7.6	7.9	7.6	8.0	9.0	7.7	6.5	8.3	9.0	e5.8
10	9.4	12	7.6	7.3	7.6	8.3	9.0	7.6	6.5	8.3	9.0	11
11	9.2	14	7.6	7.0	7.6	8.3	9.3	7.6	6.5	8.3	9.0	32
12	9.1	11	7.6	7.0	7.6	8.3	10	7.2	6.5	8.6	e8.9	e18
13	9.0	11	7.6	7.0	7.6	8.0	10	7.0	6.6	9.0	e8.9	e13
14	9.9	12	10	7.0	7.6	7.6	10	7.0	7.0	9.0	e8.9	e6.7
15	10	12	9.2	7.0	7.6	7.6	9.6	7.0	7.0	9.0	e8.9	e6.7
16	10	11	8.3	7.0	7.6	7.6	9.0	7.0	7.0	9.0	e8.9	e6.2
17	9.0	11	7.9	7.0	7.6	8.2	9.0	7.0	7.0	24	e8.8	e6.1
18	9.0	11	7.6	7.0	7.6	8.3	9.0	7.0	7.0	16	e8.8	e5.9
19	9.4	9.6	7.6	7.0	7.6	8.3	9.0	6.8	7.0	9.0	e8.8	e6.2
20	9.1	9.3	7.6	7.0	7.6	8.3	9.0	6.5	7.0	9.0	e8.5	e6.1
21	9.0	9.3	7.6	7.0	7.6	8.6	9.0	6.5	7.0	9.0	e7.6	e6.3
22	9.1	8.9	7.6	7.0	8.2	8.3	9.0	6.5	7.0	9.0	e7.2	e6.4
23	10	8.2	7.6	7.0	8.3	8.4	9.0	6.5	7.4	9.0	e6.9	e6.2
24	10	22	7.6	7.0	8.3	13	9.0	6.5	7.6	9.0	e6.9	e6.8
25	10	14	7.6	7.0	8.3	9.3	9.0	6.5	7.6	9.1	e6.8	e6.8
26	10	10	7.6	7.0	8.3	9.0	9.0	6.4	7.6	9.8	e6.7	e6.8
27	10	10	7.6	7.0	8.3	9.0	9.0	6.1	7.6	9.0	e6.9	e6.3
28	10	10	7.6	7.0	8.3	9.0	8.3	6.1	7.6	9.0	e6.6	e6.8
29	10	9.6	7.6	7.0	---	9.0	8.4	6.1	7.6	9.0	e6.6	e6.2
30	10	8.3	7.6	7.0	---	9.0	8.3	6.1	7.6	9.0	e6.6	e6.4
31	10	---	7.6	7.0	---	9.0	---	6.1	---	9.0	e6.4	---
TOTAL	289.0	341.2	242.5	223.0	217.2	264.6	271.9	219.0	206.9	292.4	253.6	235.0
MEAN	9.32	11.4	7.82	7.19	7.76	8.54	9.06	7.06	6.90	9.43	8.18	7.83
MAX	10	22	10	7.9	8.3	13	10	8.3	7.6	24	9.0	32
MIN	8.4	8.2	7.6	7.0	7.2	7.6	8.3	6.1	6.1	7.6	6.4	5.4
AC-FT	573	677	481	442	431	525	539	434	410	580	503	466
†	0.00	0.24	0.04	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	7.80	7.62	8.56	10.2	13.4	9.29	6.39	5.97	6.17	11.6	7.69	9.27
MAX	15.2	11.4	21.1	40.1	35.9	38.7	9.29	8.38	12.7	56.2	13.5	29.4
(WY)	2001	2002	1995	1995	1998	1992	1992	1995	1990	1999	2000	1997
MIN	3.56	4.58	4.30	3.90	3.43	0.000	0.80	0.000	0.000	0.000	0.68	0.000
(WY)	1992	1990	1991	1999	1999	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	3879.7		3056.3			
ANNUAL MEAN	10.6		8.37		8.96	
HIGHEST ANNUAL MEAN					12.1	1995
LOWEST ANNUAL MEAN					5.57	1991
HIGHEST DAILY MEAN	222	Feb 26	32	Sep 11	613	Jul 8 1999
LOWEST DAILY MEAN	5.6	Apr 12	5.4	Sep 4	0.00	Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	5.8	May 25	5.7	Sep 3	0.00	Mar 1 1988
MAXIMUM PEAK FLOW			149	Sep 11	5600	Jul 8 1999
MAXIMUM PEAK STAGE			10.46	Sep 11	15.90	Jun 10 1990
ANNUAL RUNOFF (AC-FT)	7700		6060		6490	
10 PERCENT EXCEEDS	12		10		9.7	
50 PERCENT EXCEEDS	8.3		8.2		6.5	
90 PERCENT EXCEEDS	6.6		6.5		3.8	

e Estimated
† Precipitation total, in inches

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'23", long 115°02'49", in SE $^1/_4$ NE $^1/_4$ sec.09, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, about 300 ft downstream from Flamingo Wash Confluence, 0.2 mi north of Vegas Valley Drive, and 0.3 mi south of Sahara Ave.

DRAINAGE AREA.--1,352 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,710 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s, July 8, 1999, gage height, 31.00 ft; minimum daily, 4.7 ft^3/s, May 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 172 ft^3/s, September 11, gage height, 18.24 ft; minimum daily, 6.0 ft^3/s, September 4. Maximum daily precipitation, 0.17 inches, November 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	11	12	11	12	14	10	8.7	7.9	9.1	11	6.7
2	14	12	12	10	11	e8.0	9.7	9.3	7.1	9.3	11	6.7
3	13	12	13	11	11	11	10	9.5	9.0	9.5	10	6.2
4	13	12	14	11	11	12	9.5	10	11	9.8	10	6.0
5	12	14	14	10	11	13	10	11	11	9.6	10	6.3
6	12	12	12	10	11	14	8.8	10	17	9.6	11	7.3
7	11	12	13	10	11	12	7.6	9.6	11	9.4	10	7.6
8	11	12	11	11	11	11	8.4	9.8	10	10	10	6.9
9	10	12	11	12	10	9.7	8.6	11	10	11	10	6.9
10	10	12	12	12	10	10	8.5	11	10	9.3	10	7.0
11	9.5	12	12	8.2	10	9.8	8.4	10	11	7.0	10	42
12	9.1	12	12	8.3	11	9.8	8.1	9.4	10	6.9	11	16
13	8.2	12	12	8.1	10	11	7.2	11	9.3	7.2	11	8.8
14	8.1	13	17	8.7	9.7	9.9	6.9	11	8.7	7.7	11	8.8
15	7.5	14	17	9.1	9.7	10	7.3	11	8.9	8.3	11	8.4
16	7.8	10	12	9.4	11	10	7.8	11	8.5	9.1	10	8.3
17	9.9	9.7	13	9.4	10	10	8.3	11	8.2	20	10	9.1
18	11	9.3	12	9.8	9.9	10	8.9	11	8.0	25	10	8.2
19	11	8.6	11	9.9	9.8	11	8.9	11	8.3	14	10	8.6
20	11	8.8	12	10	10	12	8.9	11	8.0	11	10	9.0
21	11	9.2	12	11	9.7	12	8.7	10	11	11	10	9.3
22	10	9.7	12	11	11	13	9.3	11	15	11	9.2	9.6
23	10	9.7	12	11	11	12	11	12	8.8	11	9.0	9.3
24	9.7	38	12	11	11	34	8.3	10	8.3	11	8.1	9.5
25	10	31	11	11	11	14	8.6	10	7.9	11	8.5	9.3
26	11	12	11	11	11	13	9.7	9.2	8.4	10	8.1	9.5
27	10	13	12	11	11	13	8.3	8.8	10	10	8.2	9.0
28	11	12	12	10	11	12	7.9	8.6	9.0	10	7.8	8.6
29	11	12	12	10	---	11	9.0	9.4	8.4	11	7.6	7.9
30	11	13	11	10	---	10	9.0	8.4	8.7	10	7.5	7.7
31	11	---	10	11	---	10	---	8.3	---	12	7.3	---
TOTAL	328.8	390.0	381	316.9	296.8	372.2	261.6	313.0	288.4	330.8	298.3	284.5
MEAN	10.6	13.0	12.3	10.2	10.6	12.0	8.72	10.1	9.61	10.7	9.62	9.48
MAX	14	38	17	12	12	34	11	12	17	25	11	42
MIN	7.5	8.6	10	8.1	9.7	8.0	6.9	8.3	7.1	6.9	7.3	6.0
AC-FT	652	774	756	629	589	738	519	621	572	656	592	564
†	0.00	0.21	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

MEAN	13.4	14.0	10.2	12.3	46.0	16.5	11.9	9.51	10.7	32.4	19.9	30.4
MAX	23.9	30.0	12.3	25.3	116	37.5	22.7	10.8	12.3	111	34.4	73.0
(WY)	2001	1997	2002	2001	1998	1998	1999	2000	2000	1999	2000	1997
MIN	9.34	9.85	5.94	7.18	7.60	8.00	7.68	6.33	8.27	10.7	9.62	9.48
(WY)	1998	1999	1998	1998	1997	1997	1997	1997	1997	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	6526.9		3862.3			
ANNUAL MEAN	17.9		10.6		18.8	
HIGHEST ANNUAL MEAN					27.2	1998
LOWEST ANNUAL MEAN					10.6	2002
HIGHEST DAILY MEAN	1030	Feb 28	42	Sep 11	1560	Jul 8 1999
LOWEST DAILY MEAN	7.5	Oct 15	6.0	Sep 4	4.7	May 5 1997
ANNUAL SEVEN-DAY MINIMUM	8.5	Jul 12	6.6	Aug 31	4.9	Dec 23 1997
MAXIMUM PEAK FLOW			172	Sep 11	11000	Jul 8 1999
MAXIMUM PEAK STAGE			18.24	Sep 11	31.00	Jul 8 1999
ANNUAL RUNOFF (AC-FT)	12950		7660		13650	
10 PERCENT EXCEEDS	14		12		15	
50 PERCENT EXCEEDS	11		10		10	
90 PERCENT EXCEEDS	8.8		8.1		8.3	

e Estimated
† Precipitation total, in inches.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to current year.

REMARKS.--In January 1997 an automatic sampler was re-installed and used to collect water-quality data as part of the National Pollution Discharge Elimination System (NPDES) monitoring network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)
SEP 11-11	0855	ENVIRONMENTAL	<.07	<.34	<.25	<.006	<2.50	<.006	<.05	<.004	<.78	<.66	<6.20

Date	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)
SEP 11-11	<.005	<.007	<.010	<.05	<.40	<.07	<.002	<.410	<.200	<.83	<.050	<.21	<.25

Date	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)
SEP 11-11	<.005	<1.70	<.018	<.07	.011	<.006	101	.082	<.11	<.10	<.12	<.005	<.12

Date	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)
SEP 11-11	E2.10	<.25	<.009	<.005	<.66	<.73	<.003	70.4	<.004	<.45	<.035	<.075	<.26

Date	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
SEP 11-11	<.26	<.70	<.34	<.050	<.006	<.013	<.006	<.002	<.007	<.72	<1.10	<1.50	<.16

Date	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)
SEP 11-11	<.003	<.010	<.022	<.006	<.011	<.57	<.01	<.200	<.010	<.040	<.02	<.22	<.96

Date	SILVEX, DIS-SOLVED (UG/L) (39762)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
SEP 11-11	<.03	<.015	<.02	<.02	<.005	<.002	<.07	<.009

Remark codes used in this report:
< -- Less than
E -- Estimated value

PERIOD OF RECORD.--April 1993 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September, hourly.
WATER TEMPERATURE: January to September, hourly.

INSTRUMENTATION.--Water-quality monitor January to Sepstember 2002, hourly

REMARKS.--In April 1993, station was incorporated into the National Water-Quality Assessment Program (NAWQA) with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources. In January 1997 an automatic sampler was re-installed and used to collect water-quality data as part of the National Pollution Discharge Elimination System (NPDES) monitoring network. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 9,510 microsiemens, May 14, 2002; minimum recorded, 1,620 microsiemens, July 18, 2002.
WATER TEMPERATURE: Maximum recorded, 36.0 July 12, 2002; minimum recorded, 4.0 , January 31, 2002.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 9,510 microsiemens, May 14;minimum recorded, 1,620 microsiemens, July 18.
WATER TEMPERATURE: Maximum recorded, 36.0 July 12;minimum recorded, 4.0 , January 31.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
11...	0900	ENVIRONMENTAL	9.1	725	9.4	99	8.2	3900	14.0	15.0	--	--	--
17...	0915	ENVIRONMENTAL	10	724	9.5	102	8.2	3800	13.0	15.5	214	261	290
24...	0905	ENVIRONMENTAL	9.7	725	9.5	98	8.2	3900	16.5	14.0	--	--	--
NOV													
14...	0830	**SOLUTION BLANK**	--	--	--	--	--	--	--	--	--	--	--
14...	0832	**EQUIPMENT BLANK**	--	--	--	--	--	--	--	--	--	--	--
14...	0835	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
14...	0850	ENVIRONMENTAL	E13	726	10.0	103	8.3	3920	16.0	14.0	--	--	--
27...	0900	ENVIRONMENTAL	12	726	10.7	98	8.2	3760	6.0	9.0	225	274	280
DEC													
06...	0910	ENVIRONMENTAL	11	733	10.7	99	8.4	3640	6.0	9.5	--	--	--
13...	0900	ENVIRONMENTAL	E12	730	11.4	102	8.3	3610	2.5	8.0	218	266	294
20...	0845	ENVIRONMENTAL	11	721	11.1	103	8.2	3710	5.5	9.0	--	--	--
JAN													
09...	0930	ENVIRONMENTAL	E12	722	11.0	109	8.2	3700	10.0	12.0	--	--	--
09...	0940	**SEQENTIAL REPLICATE**	--	--	--	--	--	--	--	--	--	--	--
22...	0945	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	*<1.70*
22...	1000	ENVIRONMENTAL	11	719	12.3	112	8.3	3750	11.0	8.0	220	268	304
22...	1005	**SEQENTIAL REPLICATE**	--	--	--	--	--	--	--	--	--	--	*298*
FEB													
12...	0930	ENVIRONMENTAL	11	727	11.5	104	8.3	3650	5.0	8.5	--	--	--
28...	0930	ENVIRONMENTAL	12	720	11.0	106	8.2	3820	14.5	10.5	220	268	293
MAR													
12...	0920	**SOLUTION BLANK**	--	--	--	--	--	--	--	--	--	--	--
12...	0925	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
12...	0930	ENVIRONMENTAL	9.7	726	11.1	112	8.3	3740	16.5	13.0	--	--	--
25...	0900	ENVIRONMENTAL	12	725	9.0	91	8.0	3060	15.0	13.0	190	233	240
APR													
11...	0830	ENVIRONMENTAL	9.1	724	9.0	101	8.0	3760	23.5	17.8	--	--	--
25...	0815	ENVIRONMENTAL	8.5	722	8.8	100	8.0	3920	21.0	18.0	212	259	282
MAY													
08...	0900	ENVIRONMENTAL	12	724	10.1	109	8.2	3920	22.0	16.0	--	--	--
28...	0830	ENVIRONMENTAL	7.9	722	8.9	104	8.1	3800	27.0	19.5	200	944	287
JUN													
13...	0850	**SOLUTION BLANK**	--	--	--	--	--	--	--	--	--	--	--
13...	0855	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
13...	0900	ENVIRONMENTAL	10	722	8.7	102	8.1	3850	28.0	20.0	--	--	--
13...	0905	**SEQENTIAL REPLICATE**	--	--	--	--	--	--	--	--	--	--	--
13...	0910	**FIELD SPIKE**	--	--	--	--	--	--	--	--	--	--	--
13...	0915	**LAB SPIKE**	--	--	--	--	--	--	--	--	--	--	--
20...	0835	**SOLUTION BLANK**	--	--	--	--	--	--	--	--	--	--	--
20...	0840	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
20...	0845	ENVIRONMENTAL	7.9	718	8.3	103	8.1	3820	33.5	22.5	211	252	284
20...	0850	**SEQENTIAL REPLICATE**	--	--	--	--	--	--	--	--	--	--	--
20...	0855	**FIELD SPIKE**	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	0800	ENVIRONMENTAL	9.7	724	7.5	96	8.0	3710	33.5	24.5	--	--	--
23...	0630	ENVIRONMENTAL	--	722	7.0	87	8.0	3740	23.0	23.0	221	270	329
AUG													
20...	0900	ENVIRONMENTAL	11	719	7.6	94	8.1	3800	28.5	22.5	218	266	362
SEP													
12...	1000	ENVIRONMENTAL	22	723	5.3	65	7.8	1980	26.0	22.5	--	--	--
23...	0900	ENVIRONMENTAL	9.1	723	8.4	98	8.2	3900	21.5	19.5	216	264	334
30...	0900	ENVIRONMENTAL	7.9	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	[a]2,4,5-T SURROG WATER FLTRD REC PERCENT (99958)
OCT													
11...	--	.06	.34	4.64	.040	--	<.02	.012	--	--	--	--	77.2
17...	1650	E.03	.49	4.10	.059	.06	<.02	.022	.6	<.1	3.8	.6	73.2
24...	--	.09	.44	4.46	.044	--	<.02	.021	--	--	--	--	77.7
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	.12	.28	4.99	.031	--	<.02	.006	--	--	--	--	81.0
27...	1650	.08	.53	4.94	.020	.12	E.01	.041	1.4	.2	6.4	1.1	104
DEC													
06...	--	.08	.54	4.86	.017	--	<.02	.026	--	--	--	--	105
13...	1600	.06	.35	5.08	.024	.07	<.02	.015	.7	<.1	2.6	.7	78.8
20...	--	.06	.37	5.18	.023	--	<.02	.020	--	--	--	--	103
JAN													
09...	--	.06	.39	4.98	.041	--	<.02	.015	--	--	--	--	98.5
09...	--	*.07*	*.37*	*4.96*	*.041*	--	*<.02*	*.016*	--	--	--	--	--
22...	*<.6*	*<.04*	*<.10*	*<.05*	*<.008*	*.02*	*<.02*	*<.004*	*<.1*	*<.1*	*E.3*	*<.1*	*96.2*
22...	1680	.08	.32	5.42	.038	.09	.02	.013	.8	<.1	2.4	.8	90.5
22...	*1700*	--	--	--	--	*.09*	--	--	*.7*	*<.1*	*2.5*	*.7*	--
FEB													
12...	--	.08	.35	4.93	.038	--	<.02	.016	--	--	--	--	92.0
28...	1660	.06	.64	4.74	.045	.07	<.02	.013	1.3	<.1	3.3	1.3	85.0
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	.05	.37	4.77	.056	--	<.02	.009	--	--	--	--	89.1
25...	1270	.18	2.2	3.92	.148	.17	<.02	.070	1.2	<.1	--	1.2	E.0
APR													
11...	--	.10	1.1	4.04	.097	--	<.02	.010	--	--	--	--	79.6
25...	1660	.07	.54	3.85	.066	<.02	<.02	.009	.2	<.1	3.8	.2	88.9
MAY													
08...	--	.06	.42	3.92	.063	--	<.02	.011	--	--	--	--	76.8
28...	1630	.09	.45	3.95	.068	.04	<.02	.011	.4	<.1	3.5	.4	74.1
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	*76.1*
13...	--	--	--	--	--	--	--	--	--	--	--	--	*79.0*
13...	--	.08	1.4	3.89	.095	--	<.02	.011	--	--	--	--	77.4
13...	--	--	--	--	--	--	--	--	--	--	--	--	*69.6*
13...	--	--	--	--	--	--	--	--	--	--	--	--	*47.0*
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	1590	.05	.85	3.75	.095	.02	<.02	.012	.2	<.1	4.1	.2	67.3
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	--	.19	.99	3.61	.161	--	<.02	.026	--	--	--	--	71.9
23...	1560	.09	.66	3.13	.179	.09	<.02	.025	.6	<.1	4.7	.6	53.0
AUG													
20...	1490	.07	.54	3.52	.084	.10	<.02	.022	.9	<.1	4.4	.9	63.2
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	1590	E.03	.57	4.08	.068	.12	<.02	.024	1.2	<.1	3.4	1.2	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	66.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	2,4-D METHYL ESTER, WATER FLTRD REC (UG/L) (50470)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	3-KETO CARBO-FURAN WATER FLTRD REC (UG/L) (50295)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)
OCT													
11...	<.009	.03	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
17...	<.009	E.01	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
24...	<.009	E.01	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.009	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
27...	<.009	.12	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
DEC													
06...	<.009	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
13...	<.009	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
20...	<.009	<.02	<.02	<.002	<.006	<2	<.004	<.007	<.002	<.02	<.008	<.04	<.005
JAN													
09...	<.009	E.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
09...	--	--	--	*<.006*	--	--	*<.006*	--	*<.004*	--	--	--	*<.005*
22...	*<.009*	*<.02*	*<.02*	*<.006*	*<.006*	*<2*	*<.006*	*<.007*	*<.004*	*<.02*	*<.008*	*<.04*	*<.005*
22...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.009	.04	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
28...	<.009	.03	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.009	.05	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
25...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.103	<.004	<.02	<.008	<.04	<.005
APR													
11...	<.009	.24	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
25...	<.009	.07	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
MAY													
08...	<.009	.09	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
28...	<.009	.05	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
JUN													
13...	*<.009*	*<.02*	*<.02*	--	*<.006*	*<2*	--	*<.007*	--	*<.02*	*<.008*	*<.04*	--
13...	*<.009*	*<.02*	*<.02*	--	*<.006*	*<2*	--	*<.007*	--	*<.02*	*<.008*	*<.04*	--
13...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
13...	*<.009*	*<.02*	*<.02*	--	*<.006*	*<2*	--	*<.007*	--	*<.02*	*<.008*	*<.04*	--
13...	*.121*	*.26*	*E.10*	--	*.154*	*<2*	--	*.036*	--	*E.05*	*E.118*	*E.06*	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	*<.006*	--	--	*<.006*	--	*<.004*	--	--	--	*<.005*
20...	--	--	--	*<.006*	--	--	*<.006*	--	*<.004*	--	--	--	*<.005*
20...	<.009	.06	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
20...	--	--	--	*<.006*	--	--	*<.006*	--	*<.004*	--	--	--	*<.005*
20...	--	--	--	*.113*	--	--	*.132*	--	*.149*	--	--	--	*.115*
JUL													
10...	<.009	.05	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
23...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
AUG													
20...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.009	<.02	<.02	<.006	<.006	<2	<.006	<.007	<.004	<.02	<.008	<.04	<.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	[a]BARBAN SURROG-ATE WTR FLT SCD 2060, 9060 RE PERCENT (90640)	BENDIO-CARB, WATER FLTRD REC (UG/L) (50299)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENOMYL WATER FLTRD REC (UG/L) (50300)	BEN-SUL-FURON METHYL WAT FLT REC (UG/L) (61693)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)	[a]CAF-FEINE-C13 SURROG, WAT FLT REC PERCENT (99959)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)
OCT													
11...	<.009	E51.8	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	E120	<.03
17...	E.003	47.6	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	.729	92.7	<.03
24...	<.009	68.1	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	.131	81.1	<.03
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.009	62.4	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.082	110	<.03
27...	<.009	E32.2	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E.361	E75.8	<.03
DEC													
06...	<.009	98.4	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.149	108	<.03
13...	<.009	E156	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	E.052	E78.3	<.03
20...	E.006	66.0	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	.109	83.4	<.03
JAN													
09...	E.006	165	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	.067	82.0	<.03
09...	*E.004*	--	--	*<.010*	--	--	--	--	--	*<.002*	--	--	--
22...	*<.009*	*89.1*	*<.03*	*<.010*	*<.004*	*<.02*	*<.01*	*<.03*	*<.02*	*<.002*	*<.010*	*131*	*<.03*
22...	<.009	109	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.075	73.0	<.03
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	E.006	124	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.086	80.3	<.03
28...	<.007	92.7	<.03	<.010	<.004	<.02	E.01	<.03	<.02	<.002	.079	73.1	<.03
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	.008	88.0	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.074	86.6	<.03
25...	<.007	E9.3	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	E6.8	<.03
APR													
11...	.008	31.9	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.055	69.7	E.03
25...	E.006	124	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	<.010	88.7	<.03
MAY													
08...	.007	49.2	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.084	69.2	<.03
28...	.008	98.8	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.057	68.0	M
JUN													
13...	*<.009*	*66.2*	*<.03*	--	*<.004*	*<.02*	*<.01*	*<.03*	*<.02*	--	*<.010*	*94.8*	*<.03*
13...	*<.009*	*96.2*	*<.03*	--	*<.004*	*<.02*	*<.01*	*<.03*	*<.02*	--	*<.010*	*112*	*<.03*
13...	E.005	51.6	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.096	75.2	<.03
13...	*<.009*	*32.0*	*<.03*	--	*<.004*	*<.02*	*<.01*	*<.03*	*<.02*	--	*.102*	*79.9*	*<.03*
13...	*.107*	*14.7*	*.06*	--	*.269*	*.17*	*E.13*	*E.11*	*E.13*	--	*.319*	*75.7*	*.14*
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	*<.007*	--	--	*<.010*	--	--	--	--	--	*<.002*	--	--	--
20...	*<.007*	--	--	*<.010*	--	--	--	--	--	*<.002*	--	--	--
20...	E.007	130	<.03	<.010	<.004	<.02	M	<.03	<.02	<.002	.105	105	<.03
20...	*E.006*	--	--	*<.010*	--	--	--	--	--	*<.002*	--	--	--
20...	*.137*	--	--	*.102*	--	--	--	--	--	*.108*	--	--	--
JUL													
10...	<.007	30.0	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.114	77.2	<.03
23...	.008	E43.0	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E.200	E84.0	<.03
AUG													
20...	E.005	62.2	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	E.154	122	<.03
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	.009	56.7	<.03	<.010	<.004	<.02	<.01	<.03	<.02	<.002	.080	70.1	<.03

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORI-MURON, WATER FLTRD REC (UG/L) (50306)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	CY-CLOATE, WATER, DISS, REC (UG/L) (04031)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT													
11...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.03
17...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	--	<.003	M
24...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	--	<.003	<.03
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.03
27...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.03
DEC													
06...	<.041	<.006	<.020	<.02	<.010	E.32	<.005	<.01	<.018	<.01	<.01	<.003	<.03
13...	<.041	<.006	<.020	<.02	<.010	E.32	<.005	<.01	<.018	<.01	<.01	<.003	<.03
20...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.006
JAN													
09...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005
09...	*<.041*	--	*<.020*	--	--	--	*<.005*	--	*<.018*	--	--	*<.003*	*E.004*
22...	*<.041*	*<.006*	*<.020*	*<.02*	*<.010*	*<.04*	*<.005*	*<.01*	*<.018*	*<.01*	*<.01*	*<.003*	*<.03*
22...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	M
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.006
28...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.006
25...	E.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	.003	<.006
APR													
11...	E.035	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.003
25...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005
MAY													
08...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.007
28...	E.012	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.011
JUN													
13...	--	*<.006*	--	*<.02*	*<.010*	*<.04*	--	*<.01*	--	*<.01*	*<.01*	--	*<.03*
13...	--	*<.006*	--	*<.02*	*<.010*	*<.04*	--	*<.01*	--	*<.01*	*<.01*	--	*<.03*
13...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.007
13...	--	*<.006*	--	*<.02*	*<.010*	*<.04*	--	*<.01*	--	*<.01*	*<.01*	--	*<.03*
13...	--	*.160*	--	*<.02*	*E.220*	*E.03*	--	*.10*	--	*E.03*	*.16*	--	*E.10*
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	*<.041*	--	*<.020*	--	--	--	*<.005*	--	*<.018*	--	--	*<.003*	*<.006*
20...	*<.041*	--	*<.020*	--	--	--	*<.005*	--	*<.018*	--	--	*<.003*	*<.006*
20...	E.004	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.008
20...	*E.004*	--	*<.020*	--	--	--	*<.005*	--	*<.018*	--	--	*<.003*	*<.008*
20...	*E.158*	--	*E.148*	--	--	--	*.110*	--	*.145*	--	--	*.116*	*E.080*
JUL													
10...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	<.006
23...	E.007	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.005
AUG													
20...	E.005	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.006
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.041	<.006	<.020	<.02	<.010	<.04	<.005	<.01	<.018	<.01	<.01	<.003	E.008

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DEETHYL DEISO-PROPYL ATRAZIN DISS, REC (UG/L) (04039)	DEISO-PROPYL ATRAZIN WATER, DISS, REC (UG/L) (04038)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIPHEN-AMID, WATER, DISS, REC (UG/L) (04033)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
OCT													
11...	E.01	<.04	105	.016	<.01	<.01	<.005	<.01	<.03	<.02	.06	<.002	<.009
17...	<.01	<.04	122	.014	<.01	<.01	<.005	<.01	<.03	<.02	.04	<.002	<.009
24...	<.01	<.04	94.7	.023	.02	<.01	<.005	<.01	<.03	<.02	.09	<.002	<.009
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	E.01	<.04	93.7	<.187	<.01	<.01	<.005	<.01	<.03	<.02	.05	<.002	<.009
27...	<.01	<.04	91.9	<.005	<.01	<.01	<.005	<.01	<.03	<.02	E.15	<.002	<.009
DEC													
06...	<.01	<.04	103	.012	<.01	<.01	<.005	<.01	<.03	<.02	.07	<.002	<.009
13...	E.01	<.04	106	.008	<.01	<.01	<.005	<.01	<.03	<.02	E.04	<.002	<.009
20...	<.01	<.04	88.8	.011	<.01	<.01	<.005	<.01	<.03	<.02	.05	<.002	<.009
JAN													
09...	<.01	<.04	110	.010	<.01	<.01	<.005	<.01	<.03	<.02	.03	<.002	<.009
09...	--	--	*112*	*.009*	--	--	*<.005*	--	--	*<.02*	--	*<.002*	*<.009*
22...	*<.01*	*<.04*	*89.2*	*<.005*	*<.01*	*<.01*	*<.005*	*<.01*	*<.03*	*<.02*	*<.01*	*<.002*	*<.009*
22...	<.01	<.04	98.3	E.005	<.01	<.01	<.005	<.01	<.03	<.02	.05	<.002	<.009
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.01	<.04	101	E.004	<.01	<.01	<.005	<.01	<.03	<.02	E1.40	<.007	<.009
28...	<.01	<.04	123	.009	<.01	<.01	<.005	<.01	<.03	<.02	.63	<.002	<.009
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	E.01	<.04	97.4	.010	<.01	<.01	<.005	<.01	<.03	<.02	E1.08	<.002	<.009
25...	<.01	<.04	115	.089	<.01	<.01	<.005	<.01	<.03	<.02	E.13	<.002	<.009
APR													
11...	<.01	<.04	89.5	.022	<.01	<.01	<.005	<.01	<.03	<.02	.24	<.002	<.009
25...	<.01	<.04	107	.037	<.01	<.01	<.005	<.01	<.03	<.02	.19	<.002	<.009
MAY													
08...	M	E.01	101	.016	<.01	<.01	<.005	<.01	<.03	<.02	.10	<.002	<.009
28...	<.01	<.04	131	.017	<.01	<.01	<.005	<.01	<.03	<.02	.10	<.002	<.009
JUN													
13...	*<.01*	*<.04*	--	--	*<.01*	*<.01*	--	*<.01*	*<.03*	--	*<.01*	--	--
13...	*<.01*	*<.04*	--	--	*<.01*	*<.01*	--	*<.01*	*<.03*	--	*<.01*	--	--
13...	<.01	<.04	98.1	.009	<.01	<.01	<.005	<.01	<.03	<.02	.09	<.002	<.009
13...	*<.01*	*<.04*	--	--	*<.01*	*<.01*	--	*<.01*	*<.03*	--	*.09*	--	--
13...	*<.01*	*E.12*	--	--	*.25*	*.16*	--	*.03*	*.12*	--	*.26*	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	*109*	*<.005*	--	--	*<.005*	--	--	*<.02*	--	*<.002*	*<.009*
20...	--	--	*109*	*<.005*	--	--	*<.005*	--	--	*<.02*	--	*<.002*	*<.009*
20...	<.01	<.04	110	.011	<.01	<.01	<.005	<.01	<.03	<.02	.12	<.002	<.009
20...	--	--	*111*	*.011*	--	--	*<.005*	--	--	*<.02*	--	*<.002*	*<.009*
20...	--	--	*108*	*.124*	--	--	*.108*	--	--	*E.01*	--	*.105*	*.118*
JUL													
10...	<.01	<.04	85.2	<.007	.13	<.01	<.005	<.01	<.03	<.02	.08	<.002	<.009
23...	<.01	<.04	139	.019	<.01	<.01	<.005	<.01	<.03	<.02	E.36	<.002	<.009
AUG													
20...	<.01	<.04	85.7	.008	<.01	<.01	<.005	<.01	<.03	<.02	.06	<.002	<.009
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.01	<.04	124	.013	<.01	<.01	<.005	<.01	<.03	<.02	.02	<.002	<.009

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUMET-SULAM WATER FLTRD REC (UG/L) (61694)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HYDROXY ATRA-ZINE WATER FLTRD REC (UG/L) (50355)	IMAZ-AQUIN WATER FLTRD REC (UG/L) (50356)	IMAZE-THAPYR WATER FLTRD REC (UG/L) (50407)	IMID-ACLOP-RID WATER FLTRD REC (UG/L) (61695)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
OCT													
11...	<.005	<.03	<.01	<.03	<.003	78.4	<.008	E.01	<.02	<.007	<.004	<.01	<.035
17...	<.005	<.03	<.01	<.03	<.003	80.6	<.008	E.57	<.02	<.007	<.004	<.01	<.035
24...	<.005	<.03	<.01	<.03	<.003	87.1	<.008	E.21	<.02	<.007	<.004	<.01	<.035
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.005	<.03	<.01	<.03	<.003	89.4	<.008	<.02	<.02	<.007	<.004	<.01	<.035
27...	<.005	<.03	<.01	<.03	<.003	88.5	<.008	E1.47	<.02	<.007	<.004	<.01	<.035
DEC													
06...	<.005	<.03	<.01	<.03	<.003	101	<.008	E.47	<.02	<.007	<.004	<.01	<.035
13...	<.005	<.03	<.01	<.03	<.003	99.1	<.008	E.08	<.02	<.007	<.004	<.01	<.035
20...	<.005	<.03	<.01	<.03	<.003	71.5	<.008	E.22	<.02	<.007	<.004	<.01	<.035
JAN													
09...	<.005	<.03	<.01	<.03	<.003	89.5	<.008	E.35	<.02	<.007	<.004	<.01	<.035
09...	*<.005*	--	--	--	*<.003*	*94.9*	--	--	--	--	*<.004*	--	*<.035*
22...	*<.005*	*<.03*	*<.01*	*<.03*	*<.003*	*85.0*	*<.008*	*<.02*	*<.02*	*<.007*	*<.004*	*<.01*	*<.035*
22...	<.005	<.03	<.01	<.03	<.003	88.9	<.008	<.02	<.02	<.007	<.004	<.01	<.035
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.005	<.03	<.01	<.03	<.003	95.7	<.008	E.61	E.03	<.007	<.004	<.01	<.035
28...	<.005	<.03	<.01	<.03	<.003	95.7	<.008	E.48	<.02	<.007	<.004	<.01	<.035
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.005	<.03	<.01	<.03	<.003	87.9	<.008	<.02	<.02	<.007	<.004	<.01	<.035
25...	<.005	<.03	<.01	<.03	<.003	95.7	<.008	E.57	<.02	<.007	<.004	<.01	<.035
APR													
11...	<.005	<.03	<.01	<.03	<.003	91.2	<.008	<.02	<.02	<.007	<.004	<.01	<.035
25...	<.005	<.03	<.01	<.03	<.003	104	<.008	E.03	<.02	<.007	<.004	<.01	<.035
MAY													
08...	<.005	<.03	<.01	<.03	<.003	125	<.008	<.02	<.02	<.007	<.004	<.01	<.035
28...	<.005	<.03	<.01	<.03	<.003	105	<.008	E.22	<.02	<.007	<.004	<.01	<.035
JUN													
13...	--	*<.03*	*<.01*	*<.03*	--	--	*<.008*	*<.02*	*<.02*	*<.007*	--	*<.01*	--
13...	--	*<.03*	*<.01*	*<.03*	--	--	*<.008*	*<.02*	*<.02*	*<.007*	--	*<.01*	--
13...	<.005	<.03	<.01	<.03	<.003	88.1	<.008	<.02	<.02	<.007	<.004	<.01	<.035
13...	--	*<.03*	*<.01*	*<.03*	--	--	*<.008*	*<.02*	*<.02*	*<.007*	--	*<.01*	--
13...	--	*.23*	*E.39*	*.25*	--	--	*<.008*	*E.29*	*E.26*	*.299*	--	*.13*	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	*<.005*	--	--	--	*<.003*	*108*	--	--	--	--	*<.004*	--	*<.035*
20...	*<.005*	--	--	--	*<.003*	*100*	--	--	--	--	*<.004*	--	*<.035*
20...	<.005	<.03	<.01	<.03	<.003	110	<.008	<.02	<.02	<.007	<.004	<.01	<.035
20...	*<.005*	--	--	--	*<.003*	*112*	--	--	--	--	*<.004*	--	*<.035*
20...	*.126*	--	--	--	*.118*	*106*	--	--	--	--	*.121*	--	*.143*
JUL													
10...	<.005	<.03	<.01	<.03	<.003	87.0	<.008	<.02	<.02	<.007	<.004	<.01	<.035
23...	<.005	<.03	E.24	<.03	<.003	96.4	<.008	E.07	<.02	<.007	<.004	<.01	<.035
AUG													
20...	<.005	<.03	<.01	<.03	<.003	97.3	<.008	<.02	E.02	<.007	<.004	<.01	<.035
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.005	<.03	<.01	<.03	<.003	100	<.008	<.02	<.02	<.007	<.004	<.01	<.035

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MET-SUL-FURON METHYL WAT FLT REC (UG/L) (61697)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)
OCT													
11...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
17...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	<.013	<.006	E.15	<.002	<.007
24...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.5	<.006	<.03	<.002	<.007
27...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	--	<.002	<.007
DEC													
06...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	E.09	<.002	<.007
13...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
20...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	<.013	<.006	E.10	<.002	<.007
JAN													
09...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
09...	*<.027*	--	--	--	--	--	*<.050*	*<.006*	*<.013*	*<.006*	--	*<.002*	*<.007*
22...	*<.027*	*<.02*	*<.01*	*<.02*	*<.008*	*<.004*	*<.050*	*<.006*	*<.013*	*<.006*	*<.03*	*<.002*	*<.007*
22...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.027	<.02	<.01	M	<.008	<.004	<.050	<.006	E.004	<.006	<.03	<.002	<.007
28...	<.027	<.02	<.01	E.01	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.027	<.02	<.01	E.01	<.008	<.004	<.050	<.006	E.005	<.006	<.03	<.002	<.007
25...	.066	<.09	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	E.57	<.002	<.007
APR													
11...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
25...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
MAY													
08...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
28...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
JUN													
13...	--	*<.02*	*<.01*	*<.02*	*<.008*	*<.004*	--	--	--	--	*<.03*	--	--
13...	--	*<.02*	*<.01*	*<.02*	*<.008*	*<.004*	--	--	--	--	*<.03*	--	--
13...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
13...	--	*<.02*	*<.01*	*<.02*	*<.008*	*<.004*	--	--	--	--	*<.03*	--	--
13...	--	*.16*	*E.08*	*.18*	*E.080*	*E.225*	--	--	--	--	*E.06*	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	*<.027*	--	--	--	--	--	*<.050*	*<.006*	*<.013*	*<.006*	--	*<.002*	*<.007*
20...	*<.027*	--	--	--	--	--	*<.050*	*<.006*	*<.013*	*<.006*	--	*<.002*	*<.007*
20...	E.007	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
20...	*E.006*	--	--	--	--	--	*<.050*	*<.006*	*<.013*	*<.006*	--	*<.002*	*<.007*
20...	*.124*	--	--	--	--	--	*E.141*	*.140*	*.133*	*.118*	--	*.115*	*.128*
JUL													
10...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
23...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	E.18	<.002	<.007
AUG													
20...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.027	<.02	<.01	<.02	<.008	<.004	<.050	<.006	<.013	<.006	<.03	<.002	<.007

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NICOSUL-FURON WATER FLTRD REC (UG/L) (50364)	NORFLUR-AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL OXIME WATER FLTRD REC (UG/L) (50410)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
OCT													
11...	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
17...	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
24...	<.01	E.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	<.01	<.01	<.02	<.02	<.01	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
27...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
DEC													
06...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
13...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
20...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.007	<.002	<.010	<.006	<.011	<.02
JAN													
09...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
09...	--	--	--	--	--	--	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	--
22...	*<.01*	*<.01*	*<.02*	*<.02*	--	*<.01*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.02*
22...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
28...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	E.018	<.006	<.011	<.02
25...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
APR													
11...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
25...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
MAY													
08...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
28...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
JUN													
13...	*<.01*	*<.01*	*<.02*	*<.02*	--	*<.01*	--	--	--	--	--	--	*<.02*
13...	*<.01*	*<.01*	*<.02*	*<.02*	--	*<.01*	--	--	--	--	--	--	*<.02*
13...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
13...	*<.01*	*<.01*	*<.02*	*<.02*	--	*<.01*	--	--	--	--	--	--	*<.02*
13...	*.04*	*E.56*	*E.19*	*.04*	--	*.11*	--	--	--	--	--	--	*.17*
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	--
20...	--	--	--	--	--	--	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	--
20...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
20...	--	--	--	--	--	--	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	--
20...	--	--	--	--	--	--	*.061*	*.140*	*.110*	*.123*	*.058*	*E.050*	--
JUL													
10...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
23...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
AUG													
20...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.01	<.01	<.02	<.02	--	<.01	<.003	<.010	<.004	<.022	<.006	<.011	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PROP-ICONA-ZOLE , WATER FLTRD REC (UG/L) (50471)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SIDURON WATER FLTRD REC (UG/L) (38548)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	SULFO-MET-RURON METHYL WTR FLT REC (UG/L) (50337)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL, WATER, DISS, REC (UG/L) (04032)
OCT													
11...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.007	<.009	<.006	<.010
17...	.06	<.004	<.010	<.011	<.02	<.010	<.02	E.007	<.02	E.008	<.009	<.006	<.010
24...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	E.006	<.02	.014	<.009	<.006	<.010
NOV													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
14...	E.008	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.009	<.009	<.006	<.010
27...	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.011	<.009	<.006	<.010
DEC													
06...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.009	<.009	<.006	<.010
13...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.009	<.009	<.006	<.010
20...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	E.010	<.009	<.02	<.010
JAN													
09...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.009	<.009	<.02	<.010
09...	*E.01*	*<.004*	*<.010*	*<.011*	*<.02*	--	--	--	--	*.009*	--	*<.02*	--
22...	*<.01*	*<.004*	*<.010*	*<.011*	*<.02*	*<.010*	*<.02*	*<.008*	*<.02*	*<.005*	*<.009*	*<.006*	*<.010*
22...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.012	<.009	<.006	<.010
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	.03	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.011	<.009	<.02	<.010
28...	<.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.010	<.009	<.02	<.010
MAR													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
12...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.012	<.009	<.02	<.010
25...	.20	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.021	<.009	<.02	<.010
APR													
11...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.012	<.009	<.02	<.010
25...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.010	<.009	<.02	<.010
MAY													
08...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.009	<.02	.034	<.009	<.02	<.010
28...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.013	<.009	<.02	<.010
JUN													
13...	--	--	--	--	--	*<.010*	*<.02*	*<.008*	*<.02*	--	*<.009*	*<.006*	*<.010*
13...	--	--	--	--	--	*<.010*	*<.02*	*<.008*	*<.02*	--	*<.009*	*<.006*	*<.010*
13...	.03	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.013	<.009	<.02	<.010
13...	--	--	--	--	--	*<.010*	*<.02*	*<.008*	*<.02*	--	*<.009*	*<.006*	*<.010*
13...	--	--	--	--	--	*.143*	*.03*	*.174*	*.12*	--	*.215*	*.212*	*<.010*
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	*<.01*	*<.004*	*<.010*	*<.011*	*<.02*	--	--	--	--	*<.005*	--	*<.02*	--
20...	*<.01*	*<.004*	*<.010*	*<.011*	*<.02*	--	--	--	--	*<.005*	--	*<.02*	--
20...	.03	<.004	<.010	<.011	<.02	<.010	<.02	E.004	<.02	.013	<.009	<.02	<.010
20...	*.03*	*<.004*	*<.010*	*<.011*	*<.02*	--	--	--	--	*.013*	--	*<.02*	--
20...	*.16*	*.124*	*.137*	*.150*	*.11*	--	--	--	--	*.098*	--	*.14*	--
JUL													
10...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.009	<.009	<.02	<.010
23...	.02	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.010	<.009	<.02	<.010
AUG													
20...	E.01	<.004	<.010	<.011	<.02	<.010	<.02	<.008	<.02	.010	<.009	<.02	<.010
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	.02	<.004	<.010	<.011	<.02	<.010	<.02	E.005	<.02	.011	<.009	<.02	<.010

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-BENURON METHYL WATER FLTRD (UG/L) (61159)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	UREA 3(4-CHLOROPHENYL METHYL WAT FLT REC (UG/L) (61692)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)
OCT													
11...	<.034	<.02	--	<.005	<.002	<.009	<.02	<.009	<.02	<.03	<.06	<.04	<.04
17...	<.034	<.02	--	<.005	<.002	<.009	<.02	<.009	<.02	--	--	--	--
24...	<.034	<.02	M	<.005	<.002	<.009	<.02	<.009	<.02	<.03	<.06	<.04	<.04
NOV													
14...	--	--	--	--	--	--	--	--	--	*<.03*	*<.06*	*<.04*	*<.04*
14...	--	--	--	--	--	--	--	--	--	*<.03*	*<.06*	*<.04*	*<.04*
14...	--	--	--	--	--	--	--	--	--	*<.03*	*<.06*	*<.04*	*<.04*
14...	<.034	<.02	M	<.005	<.002	<.009	<.02	<.009	<.02	<.03	<.06	<.04	<.04
27...	<.034	<.02	M	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
DEC													
06...	<.034	<.02	M	<.005	<.002	<.009	<.02	<.009	<.02	<.03	<.06	<.04	<.04
13...	<.034	<.02	M	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
20...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
JAN													
09...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
09...	*<.034*	*<.02*	*M*	*<.005*	*<.002*	--	--	*<.009*	--	*<.03*	*<.06*	*<.04*	*<.04*
22...	*<.034*	*<.02*	--	*<.005*	*<.002*	--	*<.02*	*<.009*	*<.02*	*<.03*	*<.06*	*<.04*	*<.04*
22...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.034	<.02	M	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
28...	<.034	<.02	M	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
MAR													
12...	--	--	--	--	--	--	--	--	--	*<.03*	*<.06*	*<.04*	*<.04*
12...	--	--	--	--	--	--	--	--	--	*<.03*	*<.06*	*<.04*	*<.04*
12...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
25...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.06	<.12	<.07	<.08
APR													
11...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
25...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
MAY													
08...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
28...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
JUN													
13...	--	--	--	--	--	--	*<.02*	--	*<.02*	--	--	--	--
13...	--	--	--	--	--	--	*<.02*	--	*<.02*	--	--	--	--
13...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
13...	--	--	--	--	--	--	*<.02*	--	*<.02*	--	--	--	--
13...	--	--	--	--	--	--	*.15*	--	*.16*	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	*.43*	*.58*	*.63*	*.41*
20...	*<.034*	*<.02*	--	*<.005*	*<.002*	--	--	*<.009*	--	--	--	--	--
20...	*<.034*	*<.02*	--	*<.005*	*<.002*	--	--	*<.009*	--	--	--	--	--
20...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
20...	*<.034*	*<.02*	--	*<.005*	*<.002*	--	--	*<.009*	--	--	--	--	--
20...	*E.132*	*.10*	--	*.127*	*.119*	--	--	*.109*	--	--	--	--	--
JUL													
10...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
23...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--
AUG													
20...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	<.03	<.06	<.04	<.04
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.034	<.02	--	<.005	<.002	--	<.02	<.009	<.02	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	1,1-DI CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	2,2-DI CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	2BUTENE TRANS-1 4-DI-CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA-NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL-WATER UNFLTRD RECOVER (UG/L) (77221)
OCT													
11...	<.03	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
NOV													
14...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
14...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
14...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
14...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	M
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	E6	<1	<.3	M
JAN													
09...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	E5	<1	<.3	M
09...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*E4*	*<1*	*<.3*	*M*
22...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
22...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	E4	<1	<.3	<.1
28...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
MAR													
12...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
12...	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*
12...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
25...	<.10	<.32	<.07	<.3	<.06	<.06	<.10	<1.4	<1.4	<14	<2	<.5	<.2
APR													
11...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*.61*	*2.82*	*.45*	*2.0*	*.65*	*.42*	*.76*	*6.5*	*7.2*	*68*	*23*	*2.7*	*1.1*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	<.05	<.16	<.04	<.1	<.03	<.03	<.05	<.7	<.7	<7	<1	<.3	<.1
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	[a]BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)
OCT													
11...	<.2	E.03	E.01	<.03	98.1	E.04	<.03	<.2	<.04	<.03	<.03	<.06	E.03
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.1	<.06	<.04	<.03	100	E.03	<.06	<.2	<.04	<.03	<.03	<.05	<.04
NOV													
14...	*<.1*	*<.06*	*<.04*	*<.03*	*92.6*	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
14...	*<.1*	*<.06*	*<.04*	*<.03*	*91.9*	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
14...	*<.1*	*<.06*	*<.04*	*<.03*	*92.0*	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
14...	<.1	<.06	<.04	<.03	91.9	<.05	<.06	<.2	<.04	<.03	<.03	<.05	E.01
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.1	E.03	<.04	<.03	94.2	E.03	<.06	<.2	<.04	<.03	<.03	<.05	E.03
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.1	E.04	E.01	<.03	89.8	E.03	<.06	<.2	<.04	<.03	<.03	<.05	E.05
JAN													
09...	<.1	E.06	E.01	<.03	93.1	E.04	<.06	<.2	<.04	<.03	<.03	<.05	E.05
09...	*<.1*	*E.06*	*E.01*	*<.03*	*99.7*	*E.04*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*E.05*
22...	*<.1*	*<.06*	*<.04*	*<.03*	*89.2*	*E.02*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
22...	<.1	E.05	E.01	<.03	90.8	E.03	<.06	<.2	<.04	<.03	<.03	<.05	E.05
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.1	E.06	<.04	<.03	109	E.04	<.06	<.2	<.04	<.03	<.03	<.05	E.05
28...	<.1	E.06	<.04	<.03	115	<.05	<.06	<.2	<.04	<.03	<.03	<.05	E.05
MAR													
12...	*<.1*	*<.06*	*<.04*	*<.03*	*109*	*E.03*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
12...	*<.1*	*<.06*	*<.04*	*<.03*	*108*	*E.08*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*
12...	<.1	E.01	<.04	<.03	115	<.05	<.06	<.2	<.04	<.03	<.03	<.05	E.03
25...	<.1	<.11	<.09	<.06	110	<.10	<.12	<.4	<.08	<.06	<.06	<.10	<.07
APR													
11...	<.1	<.06	<.04	<.03	88.0	E.03	<.06	<.2	<.04	<.03	<.03	<.05	E.02
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.1	<.06	<.04	<.03	98.0	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.1	<.06	<.04	<.03	93.1	E.02	<.06	<.2	<.04	<.03	<.03	<.05	E.02
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*1.7*	*.60*	*.47*	*.46*	*99.1*	*.48*	*.47*	*1.6*	*.42*	*.47*	*.47*	*.95*	*.51*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.1	<.06	<.04	<.03	83.7	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	<.1	<.06	<.04	<.03	95.1	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)
OCT													
11...	<.04	<.1	<.06	E.02	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.01	<.04	<.09	<.5	<.05
NOV													
14...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
14...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
14...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
14...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.04	<.1	E.04	E.02	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
JAN													
09...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
09...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*E.02*	*<.04*	*<.09*	*<.5*	*<.05*
22...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
22...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.04	<.1	<.06	E.02	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05
28...	<.04	<.1	<.06	E.03	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05
MAR													
12...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
12...	*<.04*	*<.1*	*<.06*	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*
12...	<.04	<.1	<.06	E.04	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05
25...	<.07	<.2	<.12	<.14	<.12	<.06	<.4	<.2	E.11	<.08	<.18	<1.0	<.10
APR													
11...	<.04	<.1	<.06	E.03	<.06	<.03	<.2	<.1	E.04	<.04	<.09	<.5	<.05
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.04	<.1	<.06	<.07	<.06	<.03	<.2	<.1	E.05	<.04	<.09	<.5	<.05
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*.44*	*1.5*	*1.81*	*.53*	*.76*	*.46*	*1.7*	*.9*	*.53*	*.46*	*.82*	*4.6*	*.50*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.04	<.1	E.09	E.07	<.06	<.03	<.2	<.1	E.07	<.04	<.09	<.5	<.05
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	<.04	<.1	.54	E.06	<.06	<.03	.4	<.1	.17	<.04	<.09	<.5	<.05
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	[a]ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	FURAN, TETRA-HYDRO-WATER UNFLTRD RECOVER (UG/L) (81607)
OCT													
11...	<.05	<.27	<.10	<.03	<.09	109	<.2	<.2	<.05	<.11	E.01	<.06	<2
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.05	<.18	<.10	<.03	<.09	118	<.2	<.2	<.05	<.08	<.03	<.06	<2
NOV													
14...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*125*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
14...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*124*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
14...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*123*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
14...	<.05	<.18	<.10	<.03	<.09	131	<.2	<.2	<.05	<.08	<.03	<.06	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.05	<.18	<.10	<.03	<.09	122	<.2	<.2	<.05	<.08	E.02	<.06	<2
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.05	<.18	<.10	<.03	<.09	122	<.2	<.2	<.05	<.08	E.02	<.06	<2
JAN													
09...	<.05	<.18	<.10	<.03	<.09	123	<.2	<.2	<.05	<.08	E.03	<.06	<2
09...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*123*	*<.2*	*<.2*	*<.05*	*<.08*	*E.03*	*<.06*	*<2*
22...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*110*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
22...	<.05	<.18	<.10	<.03	<.09	118	<.2	<.2	<.05	<.08	E.02	<.06	<2
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.05	<.18	<.10	<.03	<.09	107	<.2	<.2	<.05	<.08	E.02	<.06	<2
28...	<.05	<.18	<.10	<.03	<.09	108	<.2	<.2	<.05	<.08	E.02	<.06	<2
MAR													
12...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*115*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
12...	*<.05*	*<.18*	*<.10*	*<.03*	*<.09*	*114*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*	*<2*
12...	<.05	<.18	<.10	<.03	<.09	121	<.2	<.2	<.05	<.08	E.01	<.06	<2
25...	E.07	<.36	<.20	<.06	<.18	118	<.4	<.3	<.10	<.16	<.06	<.12	<4
APR													
11...	<.05	<.18	<.10	<.03	<.09	121	<.2	<.2	<.05	<.08	<.03	<.06	<2
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.05	<.18	<.10	<.03	<.09	108	<.2	<.2	<.05	<.08	<.03	<.06	<2
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.05	<.18	<.10	<.03	<.09	109	<.2	<.2	<.05	<.08	<.03	<.06	<2
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*.49*	*E3.32*	*.90*	*.46*	*1.22*	*105*	*1.7*	*1.5*	*.45*	*1.02*	*.48*	*.40*	*19*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.05	<.18	<.10	<.03	<.09	122	<.2	<.2	<.05	<.08	<.03	<.06	<2
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	.13	<.18	<.10	<.03	<.09	130	<.2	<.2	<.05	<.08	<.03	<.06	<2
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE ETHYL-WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC-RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH-ACRYLO-NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY-LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)
OCT													
11...	<.1	<.2	<.2	<.3	<.6	<.04	<1.4	<.12	<.2	<.3	<.2	M	<1.6
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
NOV													
14...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
14...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
14...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
14...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.1	M	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.1	M	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	M	<5.0
JAN													
09...	<.1	M	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	M	<5.0
09...	*<.1*	*M*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*E.1*	*<.3*	*<.2*	*M*	*<5.0*
22...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
22...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3	<.2	M	<5.0
28...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
MAR													
12...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
12...	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*	*<.2*	*<.2*	*<5.0*
12...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
25...	<.3	<.4	<.4	<.7	<1.2	<.14	<4.0	<.50	<.3	<.5	<.3	<.3	<10.0
APR													
11...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*1.2*	*2.4*	*2.7*	*6.2*	*9.8*	*1.73*	*22.7*	*E3.61*	*1.8*	*E4.0*	*E2.0*	*1.5*	*40.8*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3	<.2	<.2	<5.0
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METHYL ISO-BUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/ PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTH-ALENE TOTAL (UG/L) (34696)	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	1234-TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)	PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	[a]TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)
OCT													
11...	<.4	E.06	<.5	<.03	E.03	<.07	<.2	<.1	<.07	E.01	E.01	101	E.01
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	E.01	103	<.06
NOV													
14...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*104*	*<.06*
14...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*104*	*<.06*
14...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*105*	*<.06*
14...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	E.01	104	<.06
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	<.4	E.06	<.5	<.03	E.04	<.07	<.2	<.1	<.07	E.01	E.02	103	E.01
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	<.4	E.08	<.5	<.03	E.05	<.07	<.2	<.1	<.07	E.01	E.02	98.2	E.01
JAN													
09...	<.4	E.09	<.5	<.03	E.06	<.07	<.2	<.1	<.07	E.01	E.02	101	E.01
09...	*<.4*	*E.10*	*E.2*	*<.03*	*E.07*	*<.07*	*<.2*	*<.1*	*<.07*	*E.01*	*E.02*	*103*	*E.02*
22...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*97.6*	*<.06*
22...	<.4	E.08	<.5	<.03	E.05	<.07	<.2	<.1	<.07	<.04	E.02	98.0	E.01
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
12...	<.4	E.09	<.5	<.03	E.06	<.07	<.2	<.1	<.07	<.04	E.04	99.4	<.06
28...	<.4	E.07	<.5	<.03	E.04	<.07	<.2	<.1	<.07	<.04	E.02	105	<.06
MAR													
12...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*100*	*<.06*
12...	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*	*<.07*	*<.04*	*<.03*	*99.5*	*<.06*
12...	<.4	E.05	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	E.02	104	<.06
25...	<.7	<.12	<1.0	<.05	<.14	<.14	<.5	<.2	<.14	<.08	E.03	99.8	<.12
APR													
11...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	E.01	98.2	<.06
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
08...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	<.03	99.0	<.06
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	<.4	E.02	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	E.01	99.4	<.06
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	*5.1*	*1.16*	*4.3*	*.45*	*.61*	*1.01*	*2.4*	*1.2*	*1.33*	*.41*	*.94*	*100*	*.90*
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
10...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	<.03	101	<.06
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
20...	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1	<.07	<.04	<.03	104	<.06
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
11...	<.06	E.09	<.09	<.04	<.09	<.1	54	20	.49
17...	--	--	--	--	--	--	46	17	.48
24...	<.05	E.01	<.09	<.04	<.09	<.1	32	15	.39
NOV									
14...	*<.05*	*E.01*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
14...	*<.05*	*E.01*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
14...	*<.05*	*E.01*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
14...	<.05	E.01	<.09	<.04	<.09	<.1	63	11	E.39
27...	--	--	--	--	--	--	52	20	.69
DEC									
06...	<.05	.11	<.09	<.04	<.09	<.1	43	41	1.2
13...	--	--	--	--	--	--	23	35	E1.2
20...	<.05	.16	<.09	<.04	<.09	<.1	21	40	1.2
JAN									
09...	<.05	.18	<.09	<.04	<.09	<.1	41	20	E.64
09...	*<.05*	*.17*	*<.09*	*<.04*	*<.09*	*<.1*	*38*	*14*	--
22...	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
22...	<.05	.14	<.09	<.04	<.09	<.1	58	22	.64
22...	--	--	--	--	--	--	17	2	--
FEB									
12...	<.05	.13	<.09	<.04	<.09	<.1	28	24	.71
28...	<.05	.11	<.09	<.04	<.09	<.1	28	25	.81
MAR									
12...	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
12...	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*	--	--	--
12...	<.05	E.07	<.09	<.04	<.09	<.1	40	11	.29
25...	<.10	<.10	<.18	<.08	<.18	<.2	87	38	1.2
APR									
11...	<.05	E.03	<.09	<.04	<.09	<.1	84	5	.12
25...	--	--	--	--	--	--	78	5	.11
MAY									
08...	<.05	<.05	<.09	<.04	<.09	<.1	58	21	.68
28...	--	--	--	--	--	--	46	6	.13
JUN									
13...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
13...	<.05	E.05	<.09	<.04	<.09	<.1	28	10	.27
13...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
13...	*.54*	*.51*	*1.30*	*.43*	*1.56*	*.8*	--	--	--
20...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	45	9	.19
20...	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--
JUL									
10...	<.05	E.01	<.09	<.04	<.09	<.1	50	32	.84
23...	--	--	--	--	--	--	72	20	--
AUG									
20...	<.05	E.01	<.09	<.04	<.09	<.1	33	20	.61
SEP									
12...	--	--	--	--	--	--	67	31	1.8
23...	--	--	--	--	--	--	23	27	.66
30...	--	--	--	--	--	--	--	--	--

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	3740	3590	3670
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3690	3590	3630	3760	3220	3520	3720	3650	3680	3890	3770	3830
2	3720	3600	3650	3780	3680	3740	3720	3670	3700	3850	3650	3800
3	3670	3620	3650	3690	3510	3590	3760	3530	3650	3840	3740	3800
4	3710	3610	3660	3580	3330	3480	3740	3680	3720	3870	3720	3820
5	3740	3560	3660	3510	3220	3340	3830	3560	3720	3880	3690	3790
6	3700	3560	3630	3500	3120	3320	3790	3600	3690	3940	3270	3770
7	3680	3380	3560	3650	3160	3430	3830	3780	3810	3920	3760	3890
8	3700	3510	3580	3690	3290	3570	3880	3680	3840	3960	3860	3920
9	3700	3580	3660	3730	3520	3630	3740	3580	3660	3970	3490	3890
10	3720	3640	3680	3800	3690	3750	3910	3740	3850	3950	3570	3850
11	3780	3670	3730	3840	3690	3780	3870	3680	3770	3810	3520	3640
12	3750	3640	3680	3780	3680	3730	3790	3690	3730	3940	3810	3900
13	3720	3640	3680	3840	3470	3700	3800	3680	3740	3950	3880	3910
14	3740	3640	3690	3790	3480	3630	3800	3720	3760	9510	3540	4480
15	3760	3570	3670	3840	3750	3790	3910	3640	3810	3990	3640	3890
16	3790	3540	3630	3860	3780	3820	3900	3750	3820	3930	3400	3840
17	3760	3660	3690	3900	3760	3830	4020	3770	3890	3880	3630	3790
18	3740	3680	3710	3870	3760	3800	3960	3580	3870	3880	3520	3780
19	3760	3680	3720	3820	3680	3750	3940	3840	3890	3920	3300	3800
20	3770	3700	3740	3770	3710	3740	4020	3930	3970	4030	3830	3910
21	3810	3720	3760	3840	3700	3770	4040	3740	3950	3980	3830	3910
22	3800	3700	3750	3830	3710	3790	4020	3860	3960	3930	3740	3850
23	3840	3720	3780	3910	3800	3860	3900	3210	3650	3880	3310	3550
24	3850	3760	3810	3960	1990	2980	3930	3530	3820	3810	3680	3740
25	3880	3780	3830	3440	2580	3130	3940	3860	3900	3840	3750	3790
26	4310	3780	3890	3580	3440	3510	3860	3060	3730	3880	3780	3840
27	3860	3760	3810	3620	3380	3530	3810	3470	3760	3880	3790	3840
28	3890	3250	3760	3680	3380	3560	3850	3760	3820	3850	3720	3790
29	---	---	---	3680	3470	3610	3940	3800	3860	3820	3380	3700
30	---	---	---	3700	3470	3570	3930	3800	3850	3660	3290	3470
31	---	---	---	3720	3610	3680	---	---	---	3620	3410	3510
MONTH	4310	3250	3700	3960	1990	3610	4040	3060	3800	9510	3270	3820

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	3630	3520	3580	3490	3170	3420	4090	3800	3920
2	---	---	---	3750	3630	3690	3580	3100	3400	4150	3850	4000
3	---	---	---	3780	3570	3680	3630	3500	3550	4210	3910	4040
4	3810	3600	3670	3770	3540	3660	3640	3510	3590	4140	3860	4010
5	4300	3390	3680	3800	3600	3720	3920	3530	3610	4020	3810	3920
6	3500	2800	3070	3800	3610	3690	3940	3350	3510	3980	3630	3790
7	3840	3460	3690	3760	3580	3680	3590	3410	3490	3830	3560	3650
8	3980	3590	3860	3820	3680	3740	3570	3230	3410	3830	3670	3720
9	3980	3870	3910	3770	3540	3660	3750	3280	3540	3870	3690	3780
10	3950	3760	3860	3770	3520	3650	4050	3280	3750	3820	3700	3770
11	3880	3610	3800	3720	3540	3620	3810	3180	3610	3740	1710	2430
12	3850	3770	3810	3720	3460	3580	3780	3500	3690	2990	1980	2330
13	3880	3790	3840	3710	3530	3620	4020	3630	3860	3620	2990	3370
14	3920	3670	3830	3700	3080	3570	4000	3840	3900	3820	3600	3690
15	3930	3630	3830	3730	3080	3670	3890	3470	3810	3820	3660	3740
16	3910	3760	3820	3690	3410	3570	3950	3460	3710	3920	3760	3820
17	3910	3610	3800	3850	1760	3380	3930	3660	3790	3900	3560	3720
18	3930	3800	3860	2480	1620	1930	3950	3720	3840	3870	3670	3750
19	3920	3760	3840	2960	2480	2690	3950	3840	3910	3870	3740	3800
20	3900	3690	3810	3340	2960	3150	4260	3780	3950	3930	3650	3770
21	3770	2510	3490	3620	3340	3470	4100	3770	3980	3850	3090	3680
22	2950	2120	2550	3610	3480	3550	3870	3700	3770	4190	3700	3830
23	3100	2160	2750	3840	3480	3650	3950	3670	3810	3970	3830	3910
24	3240	3100	3180	3590	3260	3470	4050	3750	3850	4020	3810	3880
25	3310	3190	3230	3500	3240	3380	4240	3950	4070	3880	3800	3840
26	3340	3300	3320	3710	3380	3490	4180	3900	4040	3910	3590	3730
27	3340	3080	3180	3690	3410	3600	4140	3780	3880	3880	3540	3660
28	3300	3180	3220	3640	3450	3550	4890	3580	3850	3820	3550	3690
29	3430	3300	3370	9070	3500	4150	3760	3630	3720	3870	3720	3810
30	3520	3430	3470	3730	3550	3630	3790	3620	3700	3860	3720	3800
31	---	---	---	3550	3040	3290	3910	3650	3770	---	---	---
MONTH	---	---	---	9070	1620	3510	4890	3100	3730	4210	1710	3700

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	10.5	4.0	7.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.0	5.0	8.0	16.0	7.5	11.5	25.5	14.5	19.5	24.5	12.5	17.5
2	14.0	5.5	9.5	15.0	7.0	10.5	26.0	14.5	20.0	25.5	15.0	19.5
3	14.5	6.0	10.0	16.0	6.5	10.5	26.0	15.0	20.0	26.5	15.5	20.5
4	15.0	6.5	10.5	18.0	6.5	12.0	26.0	15.5	20.0	27.5	16.0	21.0
5	15.0	7.5	10.5	17.5	8.0	12.5	23.5	15.5	19.0	28.0	16.5	21.5
6	15.5	6.5	10.5	16.5	9.0	13.0	24.5	16.0	19.5	28.0	17.5	22.0
7	15.5	7.0	11.0	19.0	11.0	14.0	26.0	15.5	20.5	27.0	17.0	21.5
8	16.5	8.0	11.5	17.5	8.5	12.5	25.0	16.0	20.0	26.0	15.5	20.0
9	14.0	7.5	10.0	18.0	8.0	12.5	24.0	16.0	20.0	26.5	15.5	20.5
10	15.5	7.0	10.5	18.0	9.5	13.5	26.0	16.5	20.5	24.0	15.5	19.5
11	16.0	6.5	11.0	21.0	10.5	15.5	27.0	17.0	21.5	25.5	14.5	19.0
12	16.5	8.0	12.0	20.0	11.5	15.5	27.0	18.5	22.0	27.0	15.5	21.0
13	15.5	8.5	12.0	19.0	10.5	14.5	28.0	18.0	22.5	27.5	16.5	21.5
14	18.5	10.5	14.0	18.0	8.5	12.5	25.5	18.0	21.5	29.0	17.5	23.0
15	16.5	10.0	13.0	18.5	8.5	13.0	21.5	14.5	18.5	29.5	18.5	23.5
16	18.0	9.5	13.5	17.0	10.0	12.5	23.0	12.0	16.5	29.0	18.0	23.0
17	14.5	10.0	12.0	17.5	8.0	12.0	20.5	12.5	16.0	29.0	18.5	23.0
18	15.5	8.5	11.5	17.0	10.0	13.0	22.0	11.5	16.0	27.0	18.5	22.0
19	17.0	8.5	12.5	20.0	9.0	14.0	21.0	12.5	16.5	26.0	18.0	21.5
20	18.0	9.5	13.5	21.0	10.5	15.5	23.0	12.0	17.0	24.0	15.5	19.5
21	18.5	10.5	14.0	21.0	12.0	16.0	24.5	13.0	18.5	24.5	13.0	18.5
22	19.0	10.0	14.5	22.5	12.5	17.0	26.0	14.5	19.5	26.5	15.0	20.0
23	18.0	10.5	14.0	20.0	11.5	15.5	24.5	15.5	20.0	27.0	16.0	21.0
24	19.5	10.5	14.5	18.0	12.5	14.5	24.0	15.5	19.5	28.0	17.0	22.0
25	18.5	10.0	14.0	22.0	11.0	16.0	27.0	18.0	21.5	29.0	17.5	22.5
26	17.0	9.5	13.0	23.0	12.5	17.5	24.0	16.0	19.5	27.5	18.5	22.5
27	17.5	9.0	13.0	23.5	12.5	17.5	23.0	13.5	17.5	29.5	18.0	23.0
28	19.0	9.0	13.5	21.5	13.0	17.0	25.0	14.0	19.0	30.0	19.0	24.0
29	---	---	---	24.5	14.0	19.0	25.0	16.0	20.0	31.5	19.5	25.0
30	---	---	---	25.0	14.5	19.5	22.5	14.0	17.5	31.5	20.0	25.0
31	---	---	---	25.0	14.0	19.5	---	---	---	29.0	20.5	24.5
MONTH	19.5	5.0	12.1	25.0	6.5	14.5	28.0	11.5	19.3	31.5	12.5	21.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	33.0	22.0	27.0	30.5	23.5	26.5	31.0	22.0	25.5
2	---	---	---	31.5	22.5	26.5	31.0	23.0	26.5	30.0	21.5	25.0
3	---	---	---	30.5	22.0	26.0	32.0	21.0	25.5	31.0	21.0	25.0
4	30.0	19.5	24.5	33.5	22.0	27.0	29.5	20.0	24.0	30.5	21.0	25.0
5	31.5	20.0	25.5	31.5	22.0	26.0	30.5	20.0	25.0	26.0	22.5	24.0
6	31.0	20.5	25.5	32.0	22.0	26.5	30.5	20.5	24.5	27.0	22.0	24.0
7	29.0	20.5	24.5	32.5	22.0	26.5	31.5	20.0	25.0	27.0	21.0	23.0
8	28.0	19.5	23.0	34.5	22.0	28.0	30.5	19.5	24.5	27.5	20.5	23.5
9	26.5	17.5	21.5	34.5	23.0	28.5	33.0	20.0	26.0	29.0	17.5	23.0
10	29.0	16.0	22.0	35.5	24.0	28.5	32.5	20.5	26.0	27.5	20.0	23.0
11	30.0	17.5	23.5	33.5	25.0	29.0	33.5	20.5	26.5	29.0	21.5	24.5
12	31.0	19.0	24.5	36.0	24.5	29.0	34.0	22.0	27.5	29.5	21.0	25.0
13	32.0	19.5	25.5	34.5	24.0	28.5	34.0	22.5	27.5	30.0	21.0	25.0
14	31.0	20.0	25.0	32.5	25.0	28.5	34.0	22.5	27.5	29.5	20.5	24.5
15	32.0	19.5	25.0	26.5	23.0	25.5	33.5	22.5	27.5	29.5	20.0	24.0
16	32.5	20.0	25.5	33.5	23.0	27.0	33.0	23.0	27.0	27.0	20.5	23.5
17	32.5	20.0	26.0	29.5	23.5	26.0	33.0	23.0	27.0	27.5	18.5	22.5
18	32.5	20.5	26.0	34.0	24.0	28.0	32.0	23.0	27.0	26.5	19.0	22.0
19	33.0	21.5	26.5	34.0	24.5	28.5	30.0	22.5	25.5	26.0	17.5	21.5
20	29.5	22.0	25.5	34.5	23.0	28.0	30.5	22.5	25.5	28.0	18.0	22.5
21	26.0	21.0	23.0	34.0	23.0	27.5	29.5	19.5	23.5	28.5	18.5	23.0
22	31.5	19.5	25.0	33.0	22.5	27.5	30.0	19.5	24.0	29.0	19.0	23.5
23	31.5	19.5	25.0	33.5	23.0	27.5	27.5	19.5	23.0	28.5	19.0	23.5
24	31.0	20.5	25.5	30.5	24.5	27.0	31.0	19.0	24.0	27.0	19.0	23.0
25	33.0	20.5	26.0	34.5	24.0	28.5	30.5	19.5	24.5	28.5	20.5	24.0
26	32.0	21.0	26.0	33.5	23.0	27.5	31.0	19.5	25.0	27.5	19.5	23.0
27	33.0	21.0	26.0	33.0	22.0	26.5	31.0	20.0	24.5	25.5	18.5	21.5
28	32.0	21.0	26.0	33.5	21.0	26.5	29.0	20.0	24.0	25.0	17.5	20.5
29	32.0	20.5	26.0	34.5	21.5	27.5	31.0	19.0	24.5	26.0	18.0	21.5
30	33.0	21.0	26.5	34.0	22.5	28.0	30.5	19.5	24.5	25.0	17.5	21.0
31	---	---	---	33.5	23.5	27.5	28.5	20.0	24.0	---	---	---
MONTH	---	---	---	36.0	21.0	27.4	34.0	19.0	25.4	31.0	17.5	23.4

Remark codes used in this report:
  < -- Less than
  E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").
  M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

LAS VEGAS VALLEY

094196784 LAS VEGAS WASH AT VEGAS VALLEY DRIVE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'13", long 115°02'16", in NE $^1/_4$ SW $^1/_4$ sec.10, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at junction of Las Vegas Wash and Vegas Valley Drive.

DRAINAGE AREA.--1,019 mi^2.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,690 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft^3/s, July 8, 1999, gage height, 11.22 ft; minimum daily, 7.0 ft^3/s, January 2, 2000. Maximum daily precipitation, 0.98 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 356 ft^3/s, September 11, gage height, 4.10 ft; minimum daily, 8.3 ft^3/s, June 30, July 2, 5, and 7. Maximum daily precipitation, 0.12 inches, November 24 and March 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	e12	12	11	11	14	12	13	12	8.4	9.3	10
2	13	e12	12	11	11	12	12	13	12	8.3	9.8	10
3	13	e13	12	11	11	13	13	13	12	9.0	9.7	10
4	13	14	12	11	12	13	12	13	12	9.0	9.6	10
5	12	17	12	11	12	14	12	13	12	8.3	9.8	11
6	12	e13	13	11	12	13	13	13	15	8.4	10	12
7	12	e13	13	11	12	12	12	13	12	8.3	10	13
8	11	e13	12	11	12	11	12	13	11	8.8	9.8	11
9	11	e13	12	11	11	11	12	14	11	9.0	9.6	11
10	10	e13	13	11	11	12	11	14	11	8.9	9.4	12
11	10	12	12	11	12	12	12	13	11	9.0	9.7	e47
12	10	12	13	11	12	11	12	12	11	11	9.9	25
13	e9.8	13	13	11	12	13	12	13	11	9.3	9.7	12
14	e8.6	14	19	10	12	13	11	12	11	8.9	9.9	10
15	e8.9	14	21	10	12	13	11	12	11	9.3	10	9.8
16	e10	e11	12	10	12	13	11	12	10	9.4	10	9.6
17	e11	e10	12	9.8	12	13	12	12	10	e22	10	10
18	e11	e9.7	12	9.8	12	13	12	12	9.7	e27	10	9.6
19	13	e9.1	12	9.9	12	14	12	12	9.3	13	10	9.6
20	11	e9.5	11	10	12	14	12	12	9.4	9.9	10	9.9
21	11	e9.8	12	10	12	14	12	11	13	9.8	10	10
22	11	e10	11	9.9	12	13	12	12	e16	9.9	10	10
23	e11	13	11	9.4	13	13	15	13	10	9.6	9.7	10
24	e11	e41	11	9.6	12	e37	13	11	9.2	9.6	9.6	10
25	e11	e35	11	10	12	17	13	12	8.8	9.7	10	10
26	e11	13	11	10	13	14	13	12	8.9	9.2	10	11
27	e11	13	11	10	13	14	13	12	10	9.2	11	10
28	e11	12	11	10	15	13	12	12	9.3	9.2	9.8	9.9
29	e11	13	11	10	---	13	13	13	8.6	9.3	10	9.6
30	e12	13	11	10	---	13	13	12	8.3	9.2	10	9.8
31	e12	---	11	11	---	13	---	12	---	11	10	---
TOTAL	346.3	420.1	382	322.4	337	428	367	386	325.5	320.9	306.3	362.8
MEAN	11.2	14.0	12.3	10.4	12.0	13.8	12.2	12.5	10.8	10.4	9.88	12.1
MAX	13	41	21	11	15	37	15	14	16	27	11	47
MIN	8.6	9.1	11	9.4	11	11	11	11	8.3	8.3	9.3	9.6
AC-FT	687	833	758	639	668	849	728	766	646	637	608	720
†	0.00	0.16	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

MEAN	15.7	11.4	10.7	15.1	52.0	17.3	11.2	11.0	11.6	40.5	22.3	13.0
MAX	26.5	14.0	12.3	26.5	73.8	19.1	12.2	12.5	13.7	125	40.2	14.0
(WY)	2001	2002	2002	2001	2000	2001	2002	2002	2000	1999	2000	1999
MIN	9.34	9.62	9.15	8.36	12.0	13.8	9.63	9.92	10.1	10.2	9.88	12.0
(WY)	2000	2000	2000	2000	2002	2002	2001	2001	2001	2000	2002	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	6779.8		4304.3			
ANNUAL MEAN	18.6		11.8		16.7	
HIGHEST ANNUAL MEAN					19.5	2001
LOWEST ANNUAL MEAN					11.8	2002
HIGHEST DAILY MEAN	845	Feb 28	47	Sep 11	1600	Jul 8 1999
LOWEST DAILY MEAN	8.2	Jan 22	8.3	Jun 30	7.0	Jan 2 2000
ANNUAL SEVEN-DAY MINIMUM	8.4	Jun 13	8.5	Jun 30	7.7	Dec 30 1999
MAXIMUM PEAK FLOW			356	Sep 11	11000	Jul 8 1999
MAXIMUM PEAK STAGE			4.10	Sep 11	11.22	Jul 8 1999
ANNUAL RUNOFF (AC-FT)	13450		8540		12120	
10 PERCENT EXCEEDS	15		13		15	
50 PERCENT EXCEEDS	11		11		11	
90 PERCENT EXCEEDS	9.1		9.6		8.9	

e Estimated
† Precipitation total, in inches

LAS VEGAS VALLEY

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW $^1/_4$ SE $^1/_4$ sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank, 500 ft west of Hollywood Boulevard, and 1.5 mi northeast of East Las Vegas Civic Center.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1979 to September 1983, November 1983 to May 1984, and September 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,650 ft above NGVD of 1929, from topographic map. See WDR NV-97-1 for history of changes prior to 1997 water year. Prior to November 21, 1997, at same site at datum 1.0 ft higher.

REMARKS.--Records fair. Flow regulated by sewage treatment plant. At higher flows, some water can bypass the gage due to overbank flow upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft^3/s, July 2, 1980, gage height, 5.15 ft, datum then in use; maximum gage height, 6.81 ft, November 21, 1996; minimum daily, 45 ft^3/s, August 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 420 ft^3/s, November 24, gage height, 3.92 ft; minimum daily, 164 ft^3/s, November 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	190	267	246	220	221	216	200	243	225	220	222
2	181	194	254	230	230	221	203	205	233	226	223	226
3	197	198	249	232	233	228	199	207	233	227	223	216
4	194	202	254	232	229	228	211	213	224	231	221	214
5	186	205	239	241	223	226	211	220	222	231	219	212
6	194	196	241	248	221	226	207	229	227	231	225	217
7	198	196	237	237	221	218	207	217	223	227	221	228
8	196	188	242	241	217	221	208	213	224	228	218	223
9	191	192	244	223	224	225	212	216	227	226	222	221
10	187	199	246	216	222	233	188	214	232	228	227	215
11	187	200	235	227	224	229	210	219	228	232	223	261
12	190	203	226	231	226	221	202	216	225	241	221	235
13	194	205	221	232	231	235	202	221	236	250	218	224
14	195	184	215	223	227	213	207	227	226	231	220	232
15	198	199	248	219	209	222	203	227	214	234	218	225
16	193	198	235	211	234	228	198	e226	214	229	219	223
17	184	198	234	212	236	242	200	227	220	234	223	209
18	191	205	222	213	232	236	201	230	235	261	219	199
19	184	204	204	227	222	220	204	227	225	245	219	216
20	190	196	238	227	231	226	210	219	227	239	216	226
21	192	193	221	232	207	218	214	220	226	229	217	221
22	196	202	229	233	222	230	223	228	244	234	216	208
23	191	203	230	209	223	228	218	214	237	230	218	228
24	191	243	244	231	234	260	201	230	228	230	223	246
25	188	297	235	212	232	231	223	231	230	235	226	224
26	203	258	221	225	222	228	206	235	226	236	226	211
27	194	241	230	222	220	227	204	228	227	242	221	214
28	192	164	244	226	214	225	204	225	228	238	212	222
29	194	264	232	221	---	220	222	220	228	247	215	222
30	196	266	245	208	---	216	216	229	225	242	215	216
31	193	---	250	222	---	211	---	222	---	222	221	---
TOTAL	5955	6283	7332	7009	6286	7013	6230	6855	6837	7261	6825	6656
MEAN	192	209	237	226	224	226	208	221	228	234	220	222
MAX	203	297	267	248	236	260	223	235	244	261	227	261
MIN	181	164	204	208	207	211	188	200	214	222	212	199
AC-FT	11810	12460	14540	13900	12470	13910	12360	13600	13560	14400	13540	13200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

MEAN	154	156	154	161	161	159	153	149	151	155	158	157
MAX	217	224	237	233	253	226	209	221	228	236	220	237
(WY)	1998	1997	2002	1995	1998	2002	2000	2002	2002	1999	2002	1997
MIN	79.0	83.2	85.5	91.7	94.7	86.4	80.8	79.1	70.3	73.3	66.8	75.0
(WY)	1980	1980	1980	1982	1981	1980	1981	1979	1979	1979	1979	1979

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	77188		80542			
ANNUAL MEAN	211		221		158	
HIGHEST ANNUAL MEAN					221	2002
LOWEST ANNUAL MEAN					87.3	1981
HIGHEST DAILY MEAN	414	Feb 28	297	Nov 25	500	Jul 8 1999
LOWEST DAILY MEAN	164	Nov 28	164	Nov 28	45	Aug 22 1979
ANNUAL SEVEN-DAY MINIMUM	190	Oct 17	190	Oct 17	50	Aug 19 1979
MAXIMUM PEAK FLOW			420	Nov 24	734	Jul 2 1980
MAXIMUM PEAK STAGE			3.92	Nov 24	6.81	Nov 21 1996
ANNUAL RUNOFF (AC-FT)	153100		159800		114800	
10 PERCENT EXCEEDS	235		240		216	
50 PERCENT EXCEEDS	206		222		160	
90 PERCENT EXCEEDS	192		196		93	

e Estimated

LAS VEGAS VALLEY

09419696 DUCK CREEK AT BROADBENT BOULEVARD AT EAST LAS VEGAS, NV

LOCATION.--Lat 36°05'27", long 115°01'23", in NE $^1/_4$ SW $^1/_4$ sec.26, T.12 S., R.62 E., Clark County, Hydrologic Unit 15010005, at Broadbent Boulevard, and 1.2 mi upstream from Las Vegas Wash.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1988-September 2000, miscellaneous measurements and annual peak flow; October 2000 to current year. Previously published as "at Tropicana Avenue".

GAGE.--Water-stage recorder. Elevation of gage is 1,605 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,100 ft^3/s, July 8.1999, from slope-area determination of peak flow, minimum daily, 3.2 ft^3/s, December 5, 6, and 8.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75 ft^3/s, July 17, gage height, 4.33 ft; minimum daily, 3.2 ft^3/s, December 5, 6, and 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	4.9	3.5	4.7	6.3	6.4	6.5	6.2	5.5	4.9	e5.1	4.8
2	6.1	4.8	3.6	4.7	6.3	6.2	6.6	6.0	5.3	4.8	e5.1	4.4
3	6.0	4.8	3.6	4.9	6.3	6.1	6.6	6.0	5.3	4.9	e5.1	4.3
4	6.0	4.6	3.4	4.8	6.4	6.2	6.6	6.0	5.3	4.9	e5.1	4.2
5	5.8	4.6	3.2	4.8	6.5	6.3	6.6	6.0	5.3	4.8	e5.1	4.2
6	5.8	4.6	3.2	4.9	6.3	6.4	6.6	6.0	5.3	4.8	e5.1	4.4
7	5.8	4.6	3.3	5.2	6.4	6.6	6.6	6.0	5.3	4.8	e5.1	4.4
8	5.8	4.5	3.2	5.2	6.6	6.5	6.5	6.0	5.3	4.9	e5.1	4.3
9	5.8	4.4	3.4	5.3	6.6	6.3	6.3	5.9	5.3	4.9	e5.1	3.9
10	5.7	4.5	3.5	5.1	6.4	6.4	6.4	5.8	5.3	4.9	e5.1	4.0
11	5.6	4.5	3.5	5.0	6.4	6.5	6.3	5.8	5.3	4.9	e5.2	6.6
12	5.7	4.4	3.5	5.1	6.5	6.5	6.4	5.7	5.3	4.9	e5.1	6.1
13	5.4	4.4	3.6	5.3	6.6	6.6	6.5	5.9	5.3	4.9	e5.1	6.1
14	5.4	4.3	3.7	5.3	6.6	6.4	6.5	6.0	5.3	4.8	e5.1	6.1
15	5.4	4.3	3.6	5.7	6.4	6.3	6.6	6.0	5.0	4.7	e5.1	5.7
16	5.4	4.3	3.6	5.7	6.3	6.5	6.4	6.0	5.0	4.5	e5.2	5.6
17	5.4	4.3	3.6	5.5	6.4	6.5	6.3	5.9	5.0	36	e5.1	5.7
18	5.5	4.3	3.7	5.6	6.4	6.5	6.4	5.7	5.0	e5.8	e5.1	5.6
19	5.4	3.8	3.8	5.8	6.4	6.3	6.3	5.7	5.0	e5.5	e5.1	5.6
20	5.1	3.9	3.8	5.9	6.3	6.3	6.3	5.7	5.0	e5.2	e5.2	5.6
21	5.1	4.2	4.1	5.9	6.5	6.3	6.2	5.7	5.1	e5.1	e5.1	5.6
22	5.2	4.1	4.1	6.1	6.4	6.3	6.2	5.6	5.1	e5.1	e5.1	5.1
23	5.1	4.1	4.1	5.8	6.4	6.4	6.3	5.6	5.1	e5.1	e4.8	5.1
24	5.1	4.2	4.1	5.8	6.5	7.2	6.2	5.6	5.1	e5.1	4.7	5.1
25	4.9	4.0	4.2	6.0	6.3	6.2	6.0	5.6	5.1	e5.1	4.8	5.4
26	4.9	3.6	4.3	6.1	6.3	6.4	6.0	5.6	5.1	e5.1	4.7	5.4
27	5.0	3.5	4.3	6.4	6.3	6.4	6.0	5.6	5.1	e5.1	4.5	5.8
28	4.9	3.5	4.5	6.5	6.3	6.5	6.3	5.5	5.1	e5.1	4.5	6.1
29	5.0	3.6	4.6	6.4	---	6.6	6.4	5.5	5.0	e5.1	4.6	6.4
30	4.9	3.4	4.5	6.5	---	6.6	6.3	5.3	5.0	e5.1	4.6	6.5
31	5.0	---	4.7	6.2	---	6.6	---	5.4	---	e5.1	4.7	---
TOTAL	168.3	127.0	117.8	172.2	179.4	199.3	191.2	179.3	155.2	185.9	154.4	158.1
MEAN	5.43	4.23	3.80	5.55	6.41	6.43	6.37	5.78	5.17	6.00	4.98	5.27
MAX	6.1	4.9	4.7	6.5	6.6	7.2	6.6	6.2	5.5	36	5.2	6.6
MIN	4.9	3.4	3.2	4.7	6.3	6.1	6.0	5.3	5.0	4.5	4.5	3.9
AC-FT	334	252	234	342	356	395	379	356	308	369	306	314

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

MEAN	5.43	4.23	3.80	5.55	16.2	7.60	8.90	6.22	5.82	10.4	5.37	5.33
MAX	5.43	4.23	3.80	5.55	26.0	8.77	11.4	6.65	6.46	14.7	5.76	5.38
(WY)	2002	2002	2002	2002	2001	2001	2001	2001	2001	2001	2001	2001
MIN	5.43	4.23	3.80	5.55	6.41	6.43	6.37	5.78	5.17	6.00	4.98	5.27
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2002 WATER YEAR		WATER YEARS 2001 - 2002	
ANNUAL TOTAL	1988.1			
ANNUAL MEAN	5.45		5.45	
HIGHEST ANNUAL MEAN			5.45	2002
LOWEST ANNUAL MEAN			5.45	2002
HIGHEST DAILY MEAN	36	Jul 17	339	Feb 28 2001
LOWEST DAILY MEAN	3.2	Dec 5	3.2	Dec 5 2001
ANNUAL SEVEN-DAY MINIMUM	3.3	Dec 4	3.3	Dec 4 2001
MAXIMUM PEAK FLOW	75	Jul 17	3100	Jul 8 1999
MAXIMUM PEAK STAGE	4.33	Jul 17	8.70	Jul 6 2001
ANNUAL RUNOFF (AC-FT)	3940		3950	
10 PERCENT EXCEEDS	6.5		6.5	
50 PERCENT EXCEEDS	5.3		5.3	
90 PERCENT EXCEEDS	4.2		4.2	

e Estimated

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH AT PABCO ROAD NEAR HENDERSON, NV

LOCATION.--Lat 36°05'15", long 114°59'06", in NW $^1/_4$ SE $^1/_4$ sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on right bank, at low-head dam, 3.5 mi north of Henderson and 6.0 mi upstream from Lake Mead.

DRAINAGE AREA.--2,125 mi^2, of which 1,518 mi^2 contribute directly to surface runoff. Prior to April 4, 1961, 2,179 mi^2, of which 1,571 mi^2 contributed directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1957 to September 1983 and, October 1984 to September 1988 (published as "near Henderson"), October 2000 to current year.

GAGE.--Water-stage recorder and low-head concrete dam. Elevation of gage is 1,540 ft above NGVD of 1929, from topographic map. Prior to October 4, 2000, at several sites and datums within 2.5 mi of current location.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge includes treated sewage effluent from municipal treatment plants and some wastewater from industrial plants. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,510 ft^3/s, on basis of area-velocity computation to determine peak flow, July 4, 1975, gage height, 10.67 ft, datum then in use, from floodmarks and rating curve extension above 3,340 ft^3/s; minimum daily, 4.8 ft^3/s, August 17, 1960.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 18,000 ft^3/s, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 400 ft^3/s, November 24, gage height, 5.96 ft; minimum daily, 150 ft^3/s, November 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	224	249	254	247	261	225	201	e226	e226	250	220
2	225	228	236	238	260	251	212	203	235	226	250	224
3	247	228	230	248	263	255	207	207	235	223	248	216
4	243	236	231	241	254	247	221	204	224	224	244	214
5	238	242	220	241	249	244	216	198	226	228	243	212
6	249	234	216	251	253	244	204	211	230	225	248	217
7	256	233	222	252	246	236	208	199	232	213	245	218
8	255	225	228	236	255	237	215	198	236	219	241	196
9	249	227	228	244	268	237	223	202	236	219	247	196
10	244	234	226	236	257	235	199	194	231	225	252	192
11	244	229	213	245	261	231	210	197	222	229	247	228
12	253	236	212	246	263	221	203	206	223	245	246	208
13	254	241	210	243	268	239	196	214	236	252	240	199
14	243	211	206	237	261	220	198	220	230	229	245	207
15	241	231	237	236	241	220	191	215	218	223	244	203
16	235	230	227	227	258	215	186	e218	211	222	237	201
17	223	224	222	223	259	228	185	219	223	232	239	190
18	232	230	217	232	249	233	186	222	243	263	236	181
19	224	226	199	247	243	208	189	217	234	236	235	192
20	230	215	232	248	245	212	203	220	235	247	230	200
21	229	214	219	253	230	207	203	216	237	237	230	197
22	231	225	231	255	245	224	217	224	254	248	229	190
23	224	224	243	228	242	220	215	213	248	250	230	210
24	227	257	256	250	254	241	195	220	239	252	237	227
25	222	283	250	236	254	214	219	219	246	267	241	211
26	230	245	237	239	250	210	201	225	245	259	244	198
27	241	231	240	240	253	214	196	212	244	259	237	200
28	232	150	251	237	246	208	202	213	244	253	226	205
29	232	240	242	238	---	212	213	212	246	263	225	203
30	234	248	250	235	---	214	217	222	e230	258	227	198
31	224	---	250	245	---	212	---	e220	---	243	228	---
TOTAL	7352	6901	7130	7481	7074	7050	6155	6561	7019	7395	7421	6153
MEAN	237	230	230	241	253	227	205	212	234	239	239	205
MAX	256	283	256	255	268	261	225	225	254	267	252	228
MIN	222	150	199	223	230	207	185	194	211	213	225	181
AC-FT	14580	13690	14140	14840	14030	13980	12210	13010	13920	14670	14720	12200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	68.0	73.3	73.5	76.0	78.6	72.5	67.7	63.8	60.7	62.1	67.3	65.9
MAX	239	248	256	288	344	266	242	233	241	239	245	213
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2002	2001	2001
MIN	17.3	19.5	22.5	22.1	21.8	20.9	18.2	14.5	8.76	7.54	8.19	13.2
(WY)	1962	1963	1961	1962	1962	1962	1962	1962	1958	1962	1962	1964

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1958 - 2002	
ANNUAL TOTAL	91156		83692			
ANNUAL MEAN	250		229		69.1	
HIGHEST ANNUAL MEAN					254	2001
LOWEST ANNUAL MEAN					16.9	1962
HIGHEST DAILY MEAN	1340	Feb 28	283	Nov 25	1430	Jul 4 1975
LOWEST DAILY MEAN	150	Nov 28	150	Nov 28	4.8	Aug 17 1960
ANNUAL SEVEN-DAY MINIMUM	208	Sep 12	190	Apr 13	6.6	Jul 7 1962
MAXIMUM PEAK FLOW			400	Nov 24	6510	Jul 4 1975
MAXIMUM PEAK STAGE			5.96	Nov 24	10.67	Jul 4 1975
ANNUAL RUNOFF (AC-FT)	180800		166000		50040	
10 PERCENT EXCEEDS	283		252		136	
50 PERCENT EXCEEDS	241		230		53	
90 PERCENT EXCEEDS	216		203		17	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to June 1992, January 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1985 to September 1987.

WATER TEMPERATURE: November 1985 to September 1987.

REMARKS.--Discharge includes treated sewage effluent from municipal treatment plants and some wastewater from industrial plants. City and county sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data".

EXTREMES FOR PERIOD OF DAILY RECORD:--

SPECIFIC CONDUCTANCE: Maximum daily, 3,150 microsiemens/cm, January 5, 1987; minimum daily, 1,470 microsiemens/cm, July 23, 1986.

WATER TEMPERATURE: Maximum daily, 29.0°C, August 4, 6, 1987; minimum daily, 11.5°C, February 11, 1986.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV													
26...	0910	ENVIRONMENTAL	226	6.5	--	--	722	7.8	91	7.7	2190	20.0	129
FEB													
25...	0930	ENVIRONMENTAL	201	13	.108	.078	727	8.7	100	7.6	2030	19.5	129
MAY													
21...	0930	ENVIRONMENTAL	142	2.2	.105	.076	718	8.7	108	7.8	2260	22.5	136
AUG													
26...	0815	ENVIRONMENTAL	166	3.0	.093	.068	717	7.0	93	7.8	2170	26.5	127

Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV													
26...	65.7	22.6	218	127	124	151	266	1.0	19.6	565	1520	1430	.09
FEB													
25...	70.0	21.1	227	131	116	142	265	1.0	18.9	579	1560	1440	.14
MAY													
21...	67.6	24.6	231	129	120	146	292	1.1	18.0	567	1600	1470	<.04
AUG													
26...	66.0	24.6	218	120	112	135	277	1.0	20.7	543	1500	1410	<.04

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)
NOV													
26...	.86	1.1	14.5	.021	.16	.25	.23	.32	1.1	<.1	8.4	1.1	700
FEB													
25...	1.1	1.2	13.5	.037	.10	.24	.20	.30	.8	.1	6.8	.7	150
MAY													
21...	.74	.88	13.8	.021	.03	.14	.13	.17	.5	<.1	6.4	.5	220
AUG													
26...	.60	.70	14.9	.022	.09	.06	.05	.08	.3	<.1	5.6	.3	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV												
26...	1540	1380	5.1	585	43	81.9	3.2	2150	2.7	--	--	--
FEB												
25...	100	300	6.3	617	37	87.2	2.7	2270	3.6	5	58	2.7
MAY												
21...	150	--	7.6	581	30	85.1	3.8	2340	4.1	5	86	1.9
AUG												
26...	--	--	6.1	1000	38	82.6	3.0	2250	3.4	6	68	2.7

Remark Codes Used in This report:
  < -- Less than

09419740 C-1 CHANNEL NEAR WARM SPRINGS ROAD AT HENDERSON, NV

LOCATION.--Lat 36°02'41", long 114°57'30" in SE $^1/_4$ SE $^1/_4$ sec.8, T.22 S., R.63 E., Clark County, Hydrologic Unit 15010015, on left bank, 0.8 mi east of Lake Mead Drive and 0.3 mi south of Warm Springs Road.

DRAINAGE AREA.--3.78 mi^2.

PERIOD OF RECORD.--October 1990 to September 1994 (published as "at Warm Springs Road near Henderson"), May 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,870 ft above NGVD of 1929, from topographic map. Prior to May 24, 1995, water-stage recorder at site 0.3 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s, August 10, 1997, gage height, 18.44 ft; no flow most of time. Maximum daily precipitation, 2.36 inches, August 10, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 234 ft^3/s, April 27, gage height, 12.60 ft; no flow most days. Maximum daily precipitation, 0.24 inches, July 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	e10	0.00	0.00	17	37	30	75	0.00
2	0.0	0.00	0.00	0.00	0.0	0.00	0.00	0.41	4.5	29	71	0.00
3	0.0	0.00	0.00	0.00	0.0	0.00	0.27	0.00	0.0	52	71	0.00
4	0.00	0.00	0.00	34	0.0	0.00	1.5	0.00	0.0	32	71	0.00
5	0.00	0.00	18	16	0.0	0.00	1.2	0.00	0.0	46	71	0.00
6	0.00	10	29	7.4	0.0	0.00	0.0	0.00	0.28	46	72	0.00
7	0.00	7.2	3.9	49	0.0	0.00	0.0	3.2	4.1	50	70	0.00
8	0.00	0.00	0.0	9.7	0.0	0.00	0.66	5.1	0.0	49	76	0.00
9	12	0.00	0.0	3.3	0.0	0.00	4.0	5.6	0.0	48	73	0.00
10	11	0.00	0.0	0.61	0.0	0.00	3.9	8.2	11	46	74	27
11	4.8	0.00	0.0	0.00	0.0	0.00	3.3	6.3	8.7	49	73	35
12	0.00	0.00	0.00	0.00	0.0	0.00	13	3.0	8.7	46	73	34
13	0.00	0.00	0.00	0.00	0.0	0.00	14	11	16	45	76	29
14	0.00	0.00	0.00	0.00	e15	0.00	3.6	11	24	17	86	7.3
15	0.00	0.00	0.00	0.00	41	0.00	1.0	20	14	52	79	7.3
16	0.00	0.00	0.00	0.00	0.0	0.00	29	74	7.3	75	80	3.2
17	0.00	0.00	0.00	0.00	0.0	0.00	44	29	7.3	71	78	0.00
18	0.00	0.00	0.00	0.00	0.0	0.00	72	18	7.3	72	86	0.00
19	0.00	0.00	0.00	56	0.0	0.00	85	5.5	18	63	68	3.2
20	0.00	0.00	21	144	0.00	0.00	14	17	21	66	0.00	7.2
21	0.00	0.00	6.2	165	0.00	0.00	8.7	48	20	69	0.00	40
22	0.00	0.00	0.0	106	0.00	0.00	82	14	20	60	0.00	37
23	0.0	0.00	0.0	4.8	0.00	0.00	106	27	7.3	69	0.00	55
24	0.0	0.00	0.0	0.00	0.00	0.00	155	e15	19	55	0.00	81
25	0.00	0.00	0.0	6.3	0.00	0.00	172	0.0	45	71	0.00	72
26	0.00	0.00	0.0	0.0	17	0.00	158	0.0	62	79	0.00	29
27	0.00	0.00	0.00	0.0	0.0	0.00	130	0.0	59	77	0.00	31
28	0.00	0.00	0.00	0.0	0.0	0.00	136	16	52	76	0.00	83
29	0.00	0.00	0.00	0.0	---	0.00	102	21	35	64	0.00	88
30	0.00	0.00	0.00	0.0	---	0.00	109	0.0	19	70	0.00	83
31	0.00	---	0.00	25	---	0.00	---	0.0	---	68	0.00	---
TOTAL	27.80	17.20	78.10	627.11	83.00	0.00	1449.13	375.31	527.48	1742	1423.00	752.20
MEAN	0.90	0.57	2.52	20.2	2.96	0.000	48.3	12.1	17.6	56.2	45.9	25.1
MAX	12	10	29	165	41	0.00	172	74	62	79	86	88
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00
AC-FT	55	34	155	1240	165	0.00	2870	744	1050	3460	2820	1490
†	0.00	0.04	0.04	0.00	0.00	0.20	0.00	0.00	0.00	0.24	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	0.11	0.064	0.25	1.93	0.59	0.95	4.39	1.10	1.47	4.81	5.12	2.53
MAX	0.90	0.57	2.52	20.2	2.96	8.24	48.3	12.1	17.6	56.2	45.9	25.6
(WY)	2002	2002	2002	2002	2002	1992	2002	2002	2002	2002	2002	2002
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1991	1991	1992	1994	1994	1994	1991	1991	1992	1991	1994	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	255.82		7118.33			
ANNUAL MEAN	0.70		19.5		2.06	
HIGHEST ANNUAL MEAN					19.5	2002
LOWEST ANNUAL MEAN					0.000	1994
HIGHEST DAILY MEAN	54	Mar 9	172	Apr 25	417	Aug 10 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1990
MAXIMUM PEAK FLOW			234	Apr 27	2700	Aug 10 1997
MAXIMUM PEAK STAGE			12.60	Apr 27	18.44	Aug 10 1997
ANNUAL RUNOFF (AC-FT)	507		14120		1490	
10 PERCENT EXCEEDS	0.00		72		0.00	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated
† Precipitation total, in inches

LAS VEGAS VALLEY

09419756 LAS VEGAS WASH OVERFLOW AT LAKE LAS VEGAS INLET, NV

LOCATION.--Lat 36°06'09", long 114°56'01", in SE $^1/_4$ SW $^1/_4$ sec.22, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right end of weir at Lake Las Vegas Inlet structure, about 3.5 mi northeast of Henderson.

DRAINAGE AREA.--2,190 mi^2, approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above NGVD of 1929, from topographic map.

REMARKS.--Records excellent. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s, July 8, 1999, gage height, 40.04 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--No flow this year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	0.001	0.36	0.000	2.43	14.6	5.04	0.000	0.000	0.000	15.1	0.18	7.58
MAX	0.012	3.97	0.000	23.5	64.4	46.2	0.000	0.000	0.000	146	1.13	75.1
(WY)	1993	1997	1992	1995	2000	1992	1992	1992	1992	1999	2000	1998
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1992	1992	1992	1993	1995	1993	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1992 - 2002
ANNUAL TOTAL		0.00	
ANNUAL MEAN		0.000	3.72
HIGHEST ANNUAL MEAN			12.4 1999
LOWEST ANNUAL MEAN			0.000 1996
HIGHEST DAILY MEAN			4100 Jul 8 1999
LOWEST DAILY MEAN		0.00 Oct 1	0.00 Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM		0.00 Oct 1	0.00 Oct 1 1991
MAXIMUM PEAK FLOW			17000 Jul 8 1999
MAXIMUM PEAK STAGE			40.04 Jul 8 1999
ANNUAL RUNOFF (AC-FT)		0.00	2690
10 PERCENT EXCEEDS		0.00	0.00
50 PERCENT EXCEEDS		0.00	0.00
90 PERCENT EXCEEDS		0.00	0.00

LAS VEGAS VALLEY

09419790 LAS VEGAS WASH BELOW LAKE LAS VEGAS BELOW HENDERSON, NV

LOCATION.--Lat 36°07'14", long 114°54'34", in NW $^1/_4$ SE $^1/_4$ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, at downstream side of Lake Las Vegas Dam, and about 4.0 mi northeast of Henderson.

DRAINAGE AREA--2,200 mi^2, approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,330 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Discharge is regulated by design capacity of outlet tube in dam and debris accumulations on trash racks during high flows. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s, February 7, 1998, gage height, 9.76 ft; maximum gage height, 10.12 ft, July 10, 1996; minimum daily, 107 ft^3/s, June 15, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 579 ft^3/s, June 18, gage height, 6.50 ft; minimum daily, 164 ft^3/s, November 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	e242	269	246	255	253	211	188	238	216	e301	e235
2	242	e244	258	243	263	251	202	190	227	215	e288	e237
3	254	e249	256	248	266	251	201	203	233	226	e290	e239
4	246	e257	253	244	264	e233	212	205	217	223	e287	e234
5	234	e259	246	234	258	e232	217	208	226	226	e290	e238
6	240	e256	245	254	264	e230	213	212	230	225	e291	e244
7	243	e251	244	258	257	e225	214	198	224	223	e283	e236
8	244	e245	234	252	242	225	219	207	230	232	e281	e229
9	238	e247	237	255	267	227	228	208	229	224	e281	e226
10	234	e250	240	246	257	225	213	229	225	e247	e293	236
11	236	e252	238	255	260	228	229	244	234	e253	e286	e270
12	239	e256	240	259	264	221	227	214	233	e259	e287	e259
13	245	e260	237	258	267	223	220	214	238	e265	e283	246
14	247	e228	228	263	265	209	221	218	230	e235	e293	e235
15	249	e249	250	258	262	221	213	213	222	e259	e287	e234
16	253	e248	243	253	269	222	214	e210	223	e279	e289	e233
17	238	e247	241	245	270	226	222	206	232	e280	e295	e228
18	245	e258	230	251	272	228	225	227	245	e303	e294	e215
19	236	e252	219	252	268	219	216	221	243	e287	e272	e228
20	242	e240	238	293	267	217	202	216	238	e276	e240	245
21	243	e240	231	299	251	214	200	215	239	e279	e219	258
22	e246	e248	234	298	264	222	216	216	244	e265	e220	248
23	e242	e247	243	241	259	219	221	222	225	e274	e221	271
24	e236	e250	248	262	271	223	230	215	223	e267	e224	e303
25	e231	e280	243	268	274	215	232	209	227	e280	e227	e295
26	e243	e236	237	267	e245	217	219	214	227	e292	e231	e226
27	e252	e241	236	265	e243	224	210	220	225	e297	e229	e230
28	e246	e164	243	264	242	219	222	221	230	e300	e221	e274
29	e245	e251	242	263	---	219	215	221	218	e282	e221	e281
30	e237	266	248	261	---	212	222	227	208	e295	e228	e270
31	e244	---	251	262	---	205	---	222	---	e278	e229	---
TOTAL	7524	7413	7502	8017	7306	6955	6506	6633	6883	8062	8181	7403
MEAN	243	247	242	259	261	224	217	214	229	260	264	247
MAX	254	280	269	299	274	253	232	244	245	303	301	303
MIN	231	164	219	234	242	205	200	188	208	215	219	215
AC-FT	14920	14700	14880	15900	14490	13800	12900	13160	13650	15990	16230	14680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	203	221	221	231	241	219	209	196	192	197	208	222
MAX	243	300	282	280	401	274	247	241	229	280	264	330
(WY)	2002	1998	1998	1995	1998	2001	2001	1999	2002	1999	2002	1997
MIN	171	170	163	185	183	185	180	166	165	157	166	168
(WY)	1994	1994	1992	1992	1992	1994	1994	1993	1993	1993	1992	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	88226		88385			
ANNUAL MEAN	242		242		213	
HIGHEST ANNUAL MEAN					244	1998
LOWEST ANNUAL MEAN					178	1994
HIGHEST DAILY MEAN	633	Feb 26	303	Jul 18	1500	Feb 24 1998
LOWEST DAILY MEAN	164	Nov 28	164	Nov 28	107	Jun 15 1995
ANNUAL SEVEN-DAY MINIMUM	189	Jul 19	201	May 1	124	Jun 30 1998
MAXIMUM PEAK FLOW			579	Jun 18	2100	Feb 7 1998
MAXIMUM PEAK STAGE			6.50	Jun 18	10.12	Jul 10 1996
ANNUAL RUNOFF (AC-FT)	175000		175300		154300	
10 PERCENT EXCEEDS	270		278		259	
50 PERCENT EXCEEDS	240		240		205	
90 PERCENT EXCEEDS	201		215		170	

e Estimated

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH BELOW LAKE LAS VEGAS NEAR BOULDER CITY, NV

LOCATION.--Lat 36°07'20", long 114°54'15", in NE $^1/_4$ SE $^1/_4$ sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead Recreation Area, on right bank, under bridge at North Shore Road, and 11.0 mi northeast of Boulder City.

DRAINAGE AREA--2,193 mi^2, of which 1,586 mi^2 contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to September 1984 (published as "near Boulder City"), July to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 1,280 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Discharge includes treated sewage effluent. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,760 ft^3/s, August 14, 1984, gage height, 11.32 ft, from slope-area measurement of peak flow; minimum daily, 17 ft^3/s, July 8, 30, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s, July 8, 1999, from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July to September, 657 ft^3/s, September 25, gage height, 6.19 ft, result of temporary regulation upstream; minimum daily, 217 ft^3/s, September 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	e215	303	235
2	---	---	---	---	---	---	---	---	---	e215	289	238
3	---	---	---	---	---	---	---	---	---	e225	291	240
4	---	---	---	---	---	---	---	---	---	e225	288	235
5	---	---	---	---	---	---	---	---	---	e225	292	239
6	---	---	---	---	---	---	---	---	---	e225	293	245
7	---	---	---	---	---	---	---	---	---	e225	285	237
8	---	---	---	---	---	---	---	---	---	e230	282	230
9	---	---	---	---	---	---	---	---	---	e230	283	227
10	---	---	---	---	---	---	---	---	---	e245	295	234
11	---	---	---	---	---	---	---	---	---	255	288	272
12	---	---	---	---	---	---	---	---	---	260	288	261
13	---	---	---	---	---	---	---	---	---	267	285	251
14	---	---	---	---	---	---	---	---	---	236	295	236
15	---	---	---	---	---	---	---	---	---	260	288	235
16	---	---	---	---	---	---	---	---	---	277	291	234
17	---	---	---	---	---	---	---	---	---	278	297	229
18	---	---	---	---	---	---	---	---	---	305	295	217
19	---	---	---	---	---	---	---	---	---	289	277	231
20	---	---	---	---	---	---	---	---	---	276	243	242
21	---	---	---	---	---	---	---	---	---	279	220	256
22	---	---	---	---	---	---	---	---	---	264	221	248
23	---	---	---	---	---	---	---	---	---	272	222	277
24	---	---	---	---	---	---	---	---	---	267	224	304
25	---	---	---	---	---	---	---	---	---	281	228	298
26	---	---	---	---	---	---	---	---	---	294	232	226
27	---	---	---	---	---	---	---	---	---	299	229	230
28	---	---	---	---	---	---	---	---	---	302	222	276
29	---	---	---	---	---	---	---	---	---	285	222	283
30	---	---	---	---	---	---	---	---	---	296	228	272
31	---	---	---	---	---	---	---	---	---	278	230	---
TOTAL	---	---	---	---	---	---	---	---	---	8080	8226	7438
MEAN	---	---	---	---	---	---	---	---	---	261	265	248
MAX	---	---	---	---	---	---	---	---	---	305	303	304
MIN	---	---	---	---	---	---	---	---	---	215	220	217
AC-FT	---	---	---	---	---	---	---	---	---	16030	16320	14750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

MEAN	84.9	84.6	89.5	89.2	93.7	88.2	78.4	74.5	67.2	89.5	91.0	88.7
MAX	122	115	126	116	133	122	120	109	102	261	265	248
(WY)	1977	1983	1984	1983	1976	1983	1983	1983	1984	2002	2002	2002
MIN	51.6	54.5	57.0	60.4	57.0	49.2	44.2	39.9	35.7	27.3	33.5	38.0
(WY)	1971	1970	1970	1970	1970	1972	1971	1972	1974	1971	1969	1970

SUMMARY STATISTICS WATER YEARS 1969 - 2002

ANNUAL MEAN	82.7		
HIGHEST ANNUAL MEAN	118		1984
LOWEST ANNUAL MEAN	48.6		1971
HIGHEST DAILY MEAN	1400	Jul 23	1984
LOWEST DAILY MEAN	17	Jul 8	1971
ANNUAL SEVEN-DAY MINIMUM	21	Jul 4	1971
MAXIMUM PEAK FLOW	7760	Aug 14	1984
MAXIMUM PEAK STAGE	11.32	Aug 14	1984
ANNUAL RUNOFF (AC-FT)	59910		
10 PERCENT EXCEEDS	111		
50 PERCENT EXCEEDS	82		
90 PERCENT EXCEEDS	47		

e Estimated

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH BELOW LAKE LAS VEGAS NEAR BOULDER CITY, NV

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1964 to January 1965, September 1966 to February 1986, November 2001 to August 2002.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1975 to March 1976, November 1976 to April 1978, and August 1979 to February 1986.

WATER TEMPERATURE: November 1979 to February 1986.

REMARKS.--Discharge includes sewage effluent and wastewater from industrial plants. City and county sewage treatment plants implemented chemical removal of phosphorus from effluent during water year 1981.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 6,140 microsiemens/cm February 7, 1976; minimum daily, 1,390 microsiemens/cm July 7, 1985.

WATER TEMPERATURE: Maximum, 30.5°C July 11, 12, 1985; minimum, 7.5°C February 8, 1982, January 19, 21, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
NOV													
28...	0930	ENVIRONMENTAL	136	--	.130	.089	733	9.3	103	8.2	2420	17.8	155
FEB													
26...	0930	ENVIRONMENTAL	200	8.8	.107	.078	738	9.6	105	8.1	2380	17.5	140
MAY													
22...	0815	ENVIRONMENTAL	166	37	.103	.074	726	8.4	101	7.9	2320	21.5	145
AUG													
28...	0830	ENVIRONMENTAL	170	5.0	.090	.065	722	8.0	102	8.0	2330	24.5	150

Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
NOV													
28...	73.2	25.9	254	133	125	152	329	1.0	23.5	648	1770	1660	.10
FEB													
26...	70.6	24.3	241	128	124	151	311	1.0	18.5	616	1680	1560	<.04
MAY													
22...	66.8	23.9	239	126	113	138	305	1.2	17.6	581	1620	1520	<.04
AUG													
28...	68.9	24.4	242	124	107	129	303	.9	23.5	604	1660	1550	<.04

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	E COLI, MTEC MF WATER (COL/ 100 ML) (31633)
NOV													
28...	.66	1.1	15.0	.024	.10	.25	.24	.41	1.9	.2	7.1	1.7	270
FEB													
26...	.83	1.1	14.1	.024	--	.26	.25	.35	--	--	6.1	--	150
MAY													
22...	.72	1.1	16.2	.025	.09	.17	.15	.39	1.1	<.1	5.5	1.0	150
AUG													
28...	.58	.66	15.0	.024	.12	.07	.06	.09	.3	<.1	4.6	.3	260

LAS VEGAS VALLEY

09419800 LAS VEGAS WASH BELOW LAKE LAS VEGAS NEAR BOULDER CITY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	FECAL STREP, KF STRP MF, WATER (COL/ 100 ML) (31673)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
NOV													
28...	780	953	10.1	642	32	92.9	3.3	2800	4.9	<.24	<.16	<.25	<.002
FEB													
26...	40	60	9.1	663	37	96.9	3.3	2600	4.6	<.11	<.16	<.25	<.006
MAY													
22...	40	60	9.6	544	30	80.6	3.9	2490	5.2	<.07	<.16	<.25	<.006
AUG													
28...	386	340	9.9	535	33	89.9	2.6	2590	4.5	<.39	<1.20	<.25	<.006

Date	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	[a]BDMC, SURROG, WATER, UNFLTRD REC PERCENT (99835)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)
NOV													
28...	<5.24	<.004	<.05	<.002	<3.14	<.81	<6.83	<.007	<.030	E155	<.010	<.14	<1.75
FEB													
26...	<2.70	<.006	<.05	<.004	<9.20	<3.70	<4.30	<.005	<.007	E146	<.010	<.20	<1.60
MAY													
22...	<5.13	<.006	<.05	<.004	<5.66	<1.88	<.21	<.005	<.007	64.4	<.010	<.05	<.12
AUG													
28...	<1.50	<.006	<.69	<.004	<.46	<.86	<3.40	<.007	E.006	55.7	<.010	<.22	<.16

Date	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-AMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
NOV													
28...	<.21	<.002	<.080	<.041	<.80	<.020	<.22	<.19	<.005	<.42	<.018	<.26	<.003
FEB													
26...	<.07	<.002	<.080	<.041	<1.05	<.020	<.21	<.25	<.005	<.42	<.018	<.40	<.003
MAY													
22...	<.07	<.002	<.080	<.041	<.15	<.020	<.21	<.54	<.005	<.42	<.018	<.07	<.003
AUG													
28...	<.13	<.002	<.080	<.041	<.54	<.020	<.21	<.25	.006	<.42	<.018	<.08	<.003

Date	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
NOV													
28...	<.006	112	.008	<.33	<.09	<.60	<.005	<.14	<.02	<.12	<.25	<.002	<.009
FEB													
26...	<.006	115	.040	<.25	<.09	<.62	<.005	<.36	<.02	<.12	<.25	<.002	<.009
MAY													
22...	<.006	113	.075	<.11	<.16	<.12	<.005	<.09	<.02	<.73	<.25	<.002	<.009
AUG													
28...	<.006	105	.021	<.18	<.09	<.12	<.005	<.09	<.02	<.18	<.25	<.002	<.009

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)
NOV													
28...	<.005	<2.14	<.61	<.003	88.2	<.004	<1.08	<.035	<.027	<.16	<.26	<1.15	<.12
FEB													
26...	<.005	<.07	<.15	<.003	91.0	<.004	<1.30	<.035	<.027	<.20	<.38	<1.40	<.39
MAY													
22...	<.005	<.21	<.70	<.003	104	<.004	<.74	<.035	<.027	<.20	<.26	<.07	<.63
AUG													
28...	<.005	<.07	<.36	<.003	115	<.007	<.21	<.035	<.027	<.42	<.40	<.46	<.26

Date	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)
NOV													
28...	<.050	<.006	<.013	<.006	<.002	<.007	<.19	<.04	<1.47	<.16	<.003	<.007	<.002
FEB													
26...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.44	<.003	<.010	<.004
MAY													
22...	<.050	<.006	<.013	<.006	<.002	<.007	<.07	<.19	<.29	<.16	<.003	<.010	<.004
AUG													
28...	<.050	<.006	<.013	<.007	<.002	<.007	<.07	<.04	<.28	<.62	<.003	<.010	<.004

Date	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)
NOV													
28...	<.010	<.006	<.011	<.35	<.01	<.004	<.010	<.011	<.02	<.55	<.61	<.22	E.010
FEB													
26...	<.022	<.006	<.011	<.09	.03	<.004	<.010	<.011	<.02	<.27	<.24	<.20	.015
MAY													
22...	<.022	<.006	<.011	<.09	E.01	<.004	<.010	<.011	<.02	<.80	<.19	<.03	.008
AUG													
28...	<.022	<.006	<.011	<.10	.02	<.004	<.010	<.011	<.02	<.36	<.22	<.03	.011

Date	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
28...	<.02	<.034	<.02	E.3	<.005	<.002	<.20	<.009	--	--	--
FEB											
26...	<.02	<.034	<.02	M	<.005	<.002	<.12	<.009	25	69	13.5
MAY											
22...	<.02	<.034	<.02	--	<.005	<.002	<.21	<.009	394	85	177
AUG											
28...	<.02	<.034	<.02	--	<.005	<.002	<.98	<.009	14	53	6.4

Remark Codes Used in This report:
< -- Less than
E -- Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

Null Value Remark Codes Used in This Report:
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION--Lat 36°00'58", long 114°44'13", in NE $^1/_4$ SW $^1/_4$ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010005, in center of Hoover Dam on Colorado River.

DRAINAGE AREA.--171,700 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

RESERVOIR-CONTENTS RECORDS

PERIOD OF RECORD.--Contents: February 1935 to current year. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft to Local Powerhouse datum.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began February 1, 1935; dam completed March 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use April 1, 1967), 29,755,000 acre-ft, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 895.0 ft--gate sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,221.4 ft (top of automatic spillway gates in raised position); uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, power development, and recreation. Figures given herein represent usable contents. See schematic diagram of Colorado River Basin.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft, July 29, 30, 1941 (on basis of original bathymetry), gage height, 1,220.45 ft; maximum gage height, 1,225.85 ft, July 24, 1983 (equivalent to 26,868,000 acre-ft on basis of resurveyed bathymetry of 1963-64); minimum contents (since 1940), 10,695,000 acre-ft, April 26, 1956, gage height, 1,083.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,923,000 acre-ft, November 13, gage height 1,178.34 ft; minimum, 17,209,000 acre-ft, September 30, gage height, 1,155.42 ft.

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19862	19881	19777	19786	19873	19670	19089	18529	17909	17511	17338	17200
2	19857	19883	19777	19792	19875	19656	19066	18513	17909	17502	17338	17204
3	19840	19890	19777	19805	19879	19647	19042	18492	17897	17496	17338	17195
4	19837	19896	19785	19805	19875	19627	19027	18478	17889	17505	17344	17172
5	19832	19895	19784	19818	19861	19609	19012	18466	17868	17512	17344	17175
6	19837	19896	19781	19826	19856	19589	19005	18449	17849	17518	17337	17171
7	19841	19896	19777	19833	19850	19558	18994	18426	17830	17517	17335	17166
8	19843	19885	19781	19835	19852	19549	18981	18406	17833	17525	17328	17166
9	19844	19892	19795	19832	19848	19546	18968	18380	17837	17515	17318	17165
10	19839	19902	19798	19841	19839	19540	18944	18356	17828	17486	17320	17161
11	19845	19912	19793	19843	19833	19511	18923	18355	17816	17484	17319	17150
12	19837	19908	19789	19844	19832	19493	18900	18341	17803	17474	17313	17145
13	19850	19923	19788	19852	19822	19467	18881	18321	17789	17474	17304	17147
14	19857	19921	19782	19857	19823	19440	18867	18295	17771	17469	17295	17147
15	19856	19906	19785	19853	19819	19420	18850	18272	17771	17465	17288	17138
16	19858	19891	19794	19853	19822	19395	18827	18248	17765	17460	17283	17130
17	19852	19882	19786	19857	19816	19381	18806	18228	17744	17452	17290	17134
18	19851	19874	19789	19857	19820	19350	18795	18214	17722	17453	17285	17139
19	19854	19860	19781	19860	19812	19335	18773	18197	17708	17451	17285	17135
20	19866	19845	19776	19864	19805	19307	18768	18181	17696	17456	17281	17130
21	19869	19839	19785	19864	19786	19283	18752	18149	17689	17461	17277	17134
22	19873	19851	19789	19865	19776	19259	18730	18119	17684	17454	17266	17130
23	19882	19847	19792	19868	19776	19249	18701	18091	17677	17443	17259	17125
24	19877	19837	19795	19869	19772	19236	18678	18068	17665	17432	17260	17122
25	19879	19832	19795	19866	19751	19216	18652	18048	17640	17408	17263	17108
26	19879	19822	19797	19875	19721	19192	18623	18035	17614	17397	17246	17108
27	19883	19802	19792	19875	19695	19173	18614	18018	17583	17399	17238	17104
28	19888	19789	19782	19877	19682	19150	18593	17988	17563	17399	17223	17107
29	19888	19778	19785	19874	---	19128	18567	17958	17547	17385	17213	17100
30	19891	19776	19792	19869	---	19125	18539	17935	17533	17368	17203	17093
31	19882	---	19795	19870	---	19118	---	17915	---	17343	17209	---
MAX	19891	19923	19798	19877	19879	19670	19089	18529	17909	17525	17344	17204
MIN	19832	19776	19776	19786	19682	19118	18539	17915	17533	17343	17203	17093
*	1178.03	1177.22	1177.37	1177.94	1176.50	1172.11	1167.49	1162.39	1159.19	1157.57	1156.42	1155.42
#	+9000	-106000	+19000	+75000	-188000	-564000	-579000	-624000	-382000	-190000	-134000	-116000
##	43273	32078	27067	26517	25646	34003	41265	47726	46452	49765	49519	42181

CAL YR 2001 MAX 22544 MIN 19776 # -2563000 ## 466603
WTR YR 2002 MAX 19923 MIN 17093 # -2780000 ## 465492

* Gage height, in feet, at end of month.
\# Change in contents, in acre-feet.
Diversions, in acre-feet.

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV

LOCATION.--Lat 36°00'55", long 114°44'16", in NE $^1/_4$ SW $^1/_4$ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, or SW $^1/_4$ NE $^1/_4$ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Mohave-Clark Counties, Hydrologic Unit 15030101, in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--171,700 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing (previously considered part of the Missouri River basin).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to current year (prior to April 1934, monthly discharge only, published in WSP 1313). Published as "near Willow Beach" 1933-39 and as "below Boulder Dam" 1939-45.

GAGE.--Acoustical velocity meters on each turbine in Hoover Dam. Prior to November 1, 1939, water-stage recorder at site 9 mi downstream at datum 594.8 ft above NGVD of 1929. November 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi downstream at datum 600.35 ft above NGVD of 1929. July 1, 1958, to November 7, 1979, totalizing flowmeter on each turbine.

REMARKS.--Flow regulated by Hoover Dam on Lake Mead since February 1, 1935. Many diversions above station for irrigation, industrial, and municipal use. See schematic diagram of Colorado River Basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50,800 ft^3/s, July 29, 1983, no flow at Hoover Dam part of February 10, 1935; minimum daily, 152 ft^3/s, February 10, 1935.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10400	10700	10000	12500	13400	16300	20300	16400	9720	22200	17500	17800
2	10400	8120	10000	9520	10900	16000	20100	18500	7390	18000	14700	13100
3	11400	5940	9130	10100	11300	14100	19700	19300	11900	14000	11600	16700
4	8160	7660	11300	11600	13800	20500	18800	15900	17500	8520	8280	15200
5	13500	9540	11300	8730	15700	18500	17500	16100	21000	11500	14200	9900
6	6830	10900	15000	10000	11900	17500	13200	17900	20000	9000	15900	11300
7	6790	9810	16100	9990	14000	19100	13100	21100	19400	12500	14500	7400
8	6880	12200	9910	10300	12400	19200	17900	18500	11100	12000	16400	7300
9	9220	8000	8810	10800	9640	13600	16500	22300	11200	18400	17300	12000
10	8220	4530	10400	11200	14800	14300	18600	19700	14400	21100	15700	13100
11	8400	5920	14100	12500	12400	20100	20900	10700	16100	17900	12400	14400
12	8080	8080	12600	10800	11000	19200	22500	16900	18700	20800	17000	13900
13	4090	4500	13800	11600	12700	20300	19200	20800	19400	15100	17500	14500
14	6100	9930	13800	10800	12200	22100	15300	20800	20700	14300	18700	11500
15	9000	16700	11500	12100	11800	20200	18400	20100	13100	13800	15900	12800
16	9130	17000	11500	12000	11800	20600	17300	21800	12500	17200	15700	12400
17	9460	13200	13400	11800	12700	19800	18800	19400	23400	15300	9270	8320
18	10000	15300	13300	12900	9060	20900	19300	17500	19900	17400	13700	7440
19	8450	14100	12900	11100	13600	19400	16600	15600	20500	16900	14200	10600
20	4840	17400	14600	13800	15600	22000	12600	18800	17800	11800	14600	10200
21	6250	13200	13100	10700	19100	21900	17100	21600	14400	7930	14000	7480
22	7450	7080	11200	11100	19000	20500	22400	24200	14000	17300	17400	8130
23	7460	8560	12200	11100	10000	16700	22900	23100	15000	20000	16600	11600
24	7660	11800	10900	12000	13300	17000	20400	22100	18400	19700	13100	9660
25	8070	13300	11200	13300	20400	20600	23600	18400	24000	23400	12200	12800
26	9840	14100	12600	9580	22300	20100	22300	14000	23800	20000	20800	9400
27	7530	18400	15200	10300	22800	19800	12200	16300	25400	12500	18500	7070
28	7230	14800	15100	11900	17900	21000	21200	23900	22700	12000	19800	8390
29	9720	14400	12600	13100	---	19200	21200	22900	20700	21300	18700	9010
30	9750	11100	12800	14400	---	15400	20700	18600	18000	21700	19200	11500
31	9650	---	11600	12300	---	12200	---	16800	---	24100	11100	---
TOTAL	259960	336270	381950	353920	395500	578100	560600	590000	522110	507650	476450	334900
MEAN	8386	11210	12320	11420	14120	18650	18690	19030	17400	16380	15370	11160
MAX	13500	18400	16100	14400	22800	22100	23600	24200	25400	24100	20800	17800
MIN	4090	4500	8810	8730	9060	12200	12200	10700	7390	7930	8280	7070
AC-FT	515600	667000	757600	702000	784500	1147000	1112000	1170000	1036000	1007000	945000	664300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2002, BY WATER YEAR (WY)

MEAN	11720	11620	12030	12300	12690	14890	16070	16310	15770	15660	15180	13330
MAX	34250	30530	33670	32700	30680	28790	26290	33330	34890	41870	39390	36750
(WY)	1984	1942	1942	1942	1984	1984	1984	1986	1984	1983	1983	1983
MIN	3109	3519	4444	3540	1106	5474	7297	8898	9786	10880	9961	6619
(WY)	1935	1935	1935	1979	1993	1993	1935	1937	1940	1937	1936	1982

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1935 - 2002	
ANNUAL TOTAL	5147040		5297410			
ANNUAL MEAN	14100		14510		13970	
HIGHEST ANNUAL MEAN					30590	1984
LOWEST ANNUAL MEAN					7674	1935
HIGHEST DAILY MEAN	27100	Jul 13	25400	Jun 27	50800	Jul 29 1983
LOWEST DAILY MEAN	4090	Oct 13	4090	Oct 13	152	Feb 10 1935
ANNUAL SEVEN-DAY MINIMUM	6440	Jan 19	7170	Oct 19	927	Feb 25 1980
ANNUAL RUNOFF (AC-FT)	10210000		10510000		10120000	
10 PERCENT EXCEEDS	20800		20800		21700	
50 PERCENT EXCEEDS	13900		14000		13400	
90 PERCENT EXCEEDS	8070		8400		6610	

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1940 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1939 to September 1944, October 1950 to September 1957, October 1967 to March 1970.

SPECIFIC CONDUCTANCE: October 1939 to July 1957, October 1977 to September 1987.

WATER TEMPERATURE: October 1941 to July 1957, October 1977 to September 1987.

REMARKS.--Samples collected at gaging station 0.3 mi downstream from Hoover Dam. Unpublished chemical analyses for period October 1939 to September 1940 available from the U.S. Geological Survey in Tucson, Arizona. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

COOPERATION.--Instantaneous-discharge data provided by Bureau of Reclamation, Boulder City, Nevada.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD SINCE OCTOBER 1977.--

SPECIFIC CONDUCTANCE: Maximum, 1,180 microsiemens/cm, June 10, 1980; minimum, 787 microsiemens/cm, April 20, 1987.

WATER TEMPERATURE: Maximum, 21.5°C, July 23, 1983; minimum, 9.0°C, January 10, 1978.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TURBID-ITY LAB HACH 2100AN (NTU) (99872)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
DEC													
04...	1030	ENVIRONMENTAL	7320	1.2	.045	.030	741	6.6	66	8.0	910	13.7	65.8
FEB													
22...	0900	ENVIRONMENTAL	30600	4.9	.055	.039	752	8.8	83	7.9	935	11.9	68.1
MAY													
23...	1000	ENVIRONMENTAL	30200	4.9	.039	.025	739	8.5	82	7.8	923	12.0	72.3
AUG													
29...	1015	ENVIRONMENTAL	15500	1.8	.043	.028	739	7.2	71	7.8	946	13.0	71.1

Date	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
DEC													
04...	24.3	3.90	75.1	137	129	157	69.6	.3	8.56	219	596	551	<.04
FEB													
22...	25.5	4.02	81.1	137	130	156	70.6	.4	8.55	224	600	568	<.04
MAY													
23...	25.8	4.02	80.8	137	122	149	71.9	.2	9.01	221	596	561	<.04
AUG													
29...	24.9	3.94	81.6	138	126	153	70.9	.3	8.73	222	607	559	<.04

Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
DEC													
04...	.11	.14	.35	<.008	.03	<.004	<.007	E.003	<.1	<.1	2.5	<.1	<1
FEB													
22...	.13	.16	.44	<.008	<.02	.005	<.007	.006	<.1	<.1	2.5	<.1	<1
MAY													
23...	.12	.11	.35	<.008	<.02	E.004	<.007	.005	<.1	<.1	2.4	<.1	<1
AUG													
29...	.14	.15	.33	E.004	<.02	E.002	<.007	.004	.2	<.1	5.2	.2	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
DEC													
04...	.19	2.3	89	<.06	105	<.04	<.8	.12	1.7	<10	<.08	38.3	.3
FEB													
22...	.16	2.8	77	<.06	108	<.04	<.8	.11	1.7	<10	.10	38.3	.3
MAY													
23...	.29	2.8	103	<.06	112	E.02	<.8	.18	1.8	<10	<.08	37.5	<.1
AUG													
29...	.25	2.5	104	<.06	106	<.04	<.8	.16	2.5	<10	<.08	36.8	.6

Date	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	2,4,5-T DISSOLVED (UG/L) (39742)	2,4-D, DISSOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	3HYDRXY CARBOFURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)
DEC													
04...	4.5	<.06	1.9	<1	944	2.4	1	<.07	<.16	<.25	<.002	<.11	<.004
FEB													
22...	5.0	.53	1.8	<1	1180	1.9	1	<.07	<.16	<.25	<.006	<.11	<.006
MAY													
23...	4.5	1.69	2.5	<1	961	2.7	2	<.07	<.16	<.25	<.006	<.11	<.006
AUG													
29...	4.8	1.10	1.9	<1	963	2.4	3	<.07	<.16	<.25	<.006	<.11	<.006

Date	ACIFLUORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDICARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICARB SULFOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ALDICARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	[a]BDMC, SURROG, WATER, UNFLTRD REC PERCENT (99835)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTAZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BROMACIL, WATER, DISS, REC (UG/L) (04029)	BROMOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)
DEC													
04...	<.05	<.002	<.70	<.27	<.21	<.005	<.007	E40.6	<.010	<.05	<.09	<.07	<.002
FEB													
22...	<.05	<.004	<.20	<.27	<.21	<.005	<.007	88.4	<.010	<.05	<.09	<.07	<.002
MAY													
23...	<.05	<.004	<.20	<.27	<.21	<.005	E.007	86.2	<.010	<.05	<.09	<.07	<.002
AUG													
29...	<.05	<.004	<.20	<.27	<.21	<.005	E.004	64.2	<.010	<.05	<.09	<.07	<.002

Date	CARBARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORAMBEN, METHYL ESTER WATER FLTRD (UG/L) (61188)	CHLOROTHALONIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CLOPYRALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONOACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZINON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)
DEC													
04...	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	<.003	<.006	96.4
FEB													
22...	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.22	<.003	<.006	105
MAY													
23...	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	E.003	<.006	106
AUG													
29...	<.080	<.041	<.15	<.020	<.21	<.25	<.005	<.42	<.018	<.07	<.003	<.006	85.4

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)
DEC													
04...	<.005	<.11	<.09	<.12	<.005	<.09	<.02	<.12	<.25	<.002	<.009	<.005	<.07
FEB													
22...	<.005	<.11	<.09	<.12	<.005	<.09	<.02	<.12	<.25	<.002	<.009	<.005	<.07
MAY													
23...	<.005	<.11	<.09	<.12	<.005	<.09	<.02	<.12	<.25	<.002	<.009	<.005	<.07
AUG													
29...	<.005	<.11	<.09	<.12	<.005	<.15	<.02	<.12	<.25	<.002	<.009	<.005	<.07

Date	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
DEC													
04...	<.06	<.003	89.3	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.22	<.050	<.006
FEB													
22...	<.06	<.003	97.4	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.26	<.050	<.006
MAY													
23...	<.06	<.003	105	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.22	<.050	<.006
AUG													
29...	<.06	<.003	92.1	<.004	<.06	<.035	<.027	<.20	<.26	<.07	<.22	<.050	<.006

Date	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
DEC													
04...	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.007	<.002	<.010	<.006
FEB													
22...	<.013	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.010	<.004	<.022	<.006
MAY													
23...	E.007	<.006	<.002	<.007	<.07	<.04	<.28	<.16	<.003	<.010	<.004	<.022	<.006
AUG													
29...	<.013	<.006	<.002	<.007	<.32	<.04	<.28	<.16	<.003	<.010	<.004	<.022	<.006

Date	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)
DEC													
04...	<.011	<.09	M	<.004	<.010	<.011	<.02	<.22	<.36	<.03	<.011	<.02	<.034
FEB													
22...	<.011	<.09	<.01	<.004	<.010	<.011	<.02	<.22	<.25	<.03	<.005	<.02	<.034
MAY													
23...	<.011	<.09	E.01	<.004	<.010	<.011	<.02	<.22	<.61	<.03	<.007	M	<.034
AUG													
29...	<.011	<.09	M	<.004	<.010	<.011	<.02	<.22	<.12	<.03	<.005	<.02	<.034

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC									
04...	<.02	<.005	<.002	<.07	<.009	3.58	--	--	--
FEB									
22...	<.02	<.005	<.002	<.07	<.009	3.10	1	44	82.6
MAY									
23...	<.02	<.005	<.002	<.07	<.009	3.47	<1	50	<42
AUG									
29...	<.02	<.005	<.002	<.07	<.009	3.86	1	75	41

Remark codes used in this report:
  < -- Less than
  E -- Estimated value
  M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW $^{1}/_{4}$ SW $^{1}/_{4}$ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Arizona, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi west of Kingman, Az., and 67 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft between elevations 533.39 ft - lowest point of penstock outlet - and 647.0 ft - top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates.Dead storage, 8,530 acre-ft below elevation 533.39 ft. Lake is used for power development, regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft, May 24, 1958, May 29, 1963, May 29, 1982; maximum elevation, 647.04 ft, May 29, 1963, May 29, 1982; minimum contents (since 1952), 1,168,000 acre-ft, September 8, 1953, elevation, 622.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,742,000 acre-ft May 29-30, elevation, 644.58 ft; minimum, 1,440,000 acre-ft November 13, elevation, 633.23 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

628	1,309,000	641	1,644,000
632	1,409,000	644	1,726,000
635	1,486,000	647	1,810,000
638	1,564,000		

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1606000	1478000	1528000	1660000	1672000	1634000	1711000	1675000	1720000	1725000	1696000	1703000
2	1605000	1474000	1527000	1658000	1669000	1633000	1712000	1673000	1700000	1727000	1694000	1701000
3	1601000	1470000	1528000	1658000	1668000	1631000	1713000	1675000	1689000	1723000	1685000	1702000
4	1595000	1467000	1523000	1664000	1670000	1635000	1712000	1671000	1686000	1710000	1674000	1704000
5	1597000	1470000	1525000	1660000	1671000	1636000	1709000	1670000	1692000	1700000	1667000	1695000
6	1590000	1473000	1530000	1660000	1668000	1636000	1698000	1670000	1696000	1683000	1669000	1687000
7	1583000	1475000	1542000	1662000	1667000	1638000	1688000	1677000	1700000	1679000	1668000	1676000
8	1572000	1481000	1539000	1660000	1664000	1640000	1684000	1679000	1689000	1669000	1672000	1665000
9	1567000	1475000	1539000	1662000	1653000	1635000	1679000	1684000	1680000	1668000	1675000	1665000
10	1555000	1464000	1537000	1662000	1654000	1629000	1678000	1685000	1672000	1675000	1677000	1665000
11	1552000	1457000	1541000	1667000	1653000	1634000	1683000	1669000	1667000	1676000	1676000	1676000
12	1549000	1452000	1543000	1670000	1646000	1634000	1691000	1668000	1667000	1682000	1677000	1680000
13	1538000	1440000	1548000	1671000	1643000	1641000	1694000	1671000	1667000	1682000	1683000	1684000
14	1530000	1441000	1555000	1666000	1637000	1649000	1689000	1675000	1672000	1678000	1688000	1686000
15	1528000	1454000	1562000	1670000	1629000	1654000	1688000	1676000	1663000	1671000	1691000	1691000
16	1525000	1470000	1563000	1670000	1623000	1660000	1681000	1683000	1656000	1678000	1693000	1691000
17	1523000	1480000	1570000	1670000	1620000	1667000	1680000	1685000	1667000	1676000	1679000	1682000
18	1522000	1492000	1573000	1672000	1611000	1676000	1680000	1689000	1668000	1678000	1674000	1671000
19	1516000	1497000	1574000	1669000	1612000	1681000	1674000	1685000	1670000	1680000	1669000	1666000
20	1506000	1505000	1583000	1674000	1620000	1691000	1661000	1687000	1672000	1671000	1666000	1656000
21	1501000	1506000	1591000	1671000	1629000	1700000	1660000	1693000	1666000	1655000	1661000	1643000
22	1493000	1498000	1593000	1672000	1633000	1706000	1663000	1707000	1659000	1655000	1665000	1632000
23	1484000	1489000	1601000	1672000	1629000	1704000	1669000	1718000	1658000	1663000	1666000	1624000
24	1477000	1484000	1604000	1670000	1622000	1703000	1668000	1726000	1660000	1666000	1664000	1613000
25	1474000	1489000	1608000	1675000	1630000	1711000	1677000	1728000	1673000	1676000	1660000	1615000
26	1475000	1496000	1614000	1671000	1637000	1715000	1679000	1720000	1685000	1678000	1673000	1606000
27	1468000	1509000	1624000	1670000	1644000	1716000	1671000	1720000	1701000	1670000	1678000	1593000
28	1465000	1516000	1635000	1665000	1641000	1720000	1676000	1733000	1712000	1664000	1689000	1588000
29	1466000	1526000	1643000	1671000	---	1725000	1679000	1742000	1718000	1672000	1697000	1585000
30	1470000	1530000	1649000	1675000	---	1718000	1679000	1742000	1720000	1678000	1705000	1577000
31	1472000	---	1654000	1673000	---	1707000	---	1735000	---	1694000	1695000	---
MAX	1606000	1530000	1654000	1675000	1672000	1725000	1713000	1742000	1720000	1727000	1705000	1704000
MIN	1465000	1440000	1523000	1658000	1611000	1629000	1660000	1668000	1656000	1655000	1660000	1577000
(*)	634.45	636.68	641.37	642.05	640.89	643.29	642.29	644.32	643.76	642.84	642.88	638.47
(**)	-136000	+58000	+124000	+19000	-32000	+66000	-28000	+56000	-15000	-26000	+1000	-118000

CAL YR 2001 MAX 1765000 MIN 1440000 (**) +53000
WTR YR 2002 MAX 1742000 MIN 1440000 (**) -31000

(*) Elevation, in feet, at end of month.
(**) Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE $^{1}/_{4}$NE $^{1}/_{4}$ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Clark County, Nevada, Hydrologic Unit 15030101, on right bank, 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, Az., and 68 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi^2, approximately, including 3,959 mi^2 in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

REVISED RECORDS.--WDR AZ-86-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, NGVD of 1929; gage readings have been reduced to elevations NGVD of 1929 since October 1, 1967. 1905-7, nonrecording gage at site 4.8 mi downstream at datum about 3.4 ft lower. March 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to February 24, 1956, water-stage recorder at site 400 ft upstream at datum 10.00 ft higher. February 25, 1956, to September 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--No estimated daily discharge. Records excellent. Flow regulated by Lake Mead since February l, 1935, and by Lake Mohave since January 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft^3/s, June 20, 1906; minimum daily, 2,850 ft^3/s, January 5, 1906. 1949-2002: Maximum discharge, 46,200 ft^3/s, July 2, 1983, elevation, 509.48 ft; maximum elevation, 513.91 ft, April 22, 1952; no flow at Davis Dam parts of several days July to September 1950 and December 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft^3/s, August 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft^3/s July 26, elevation, 505.06 ft; minimum daily, 8,990 ft^3/s November 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12300	9000	10600	9880	13500	19200	19200	20200	18900	17900	16600	15400
2	12500	9460	10600	10100	12700	16700	19400	20900	18900	17400	17100	15400
3	12800	9100	10500	10000	12700	16800	19500	18700	19400	17300	16000	15300
4	12800	9020	12500	10300	13100	18500	19700	18300	18500	16500	15900	15400
5	12200	9050	12500	10300	13800	18300	19700	17300	18100	17800	16900	15200
6	11800	9230	11900	10400	15000	18700	19800	18300	18300	17000	16800	15300
7	11700	9580	11800	10700	15000	18600	19800	18300	18800	17200	15300	14400
8	11700	10000	10500	10600	15100	18500	19800	18200	17700	17200	15300	14400
9	13800	10800	10500	10600	14200	17300	20100	19000	17700	18400	15400	12800
10	13700	10500	10800	10700	14300	17200	20300	20100	17800	18500	14400	12100
11	11000	10600	12700	11500	13700	18400	18700	19400	19500	17400	14300	10900
12	10700	10800	11700	9760	14800	18700	19000	19400	19500	17300	15400	12500
13	10200	11900	11700	10400	14700	18600	18100	19500	19100	16700	15500	12300
14	10300	9790	10100	12100	16300	18100	18100	19400	19000	16700	15500	11300
15	11200	9420	9950	12200	16200	18000	19800	19400	17700	16800	14700	10900
16	11100	9450	9990	12400	14800	17200	20400	18700	17400	16300	17200	12100
17	11100	8990	10600	11300	14700	17200	20500	18300	18700	15900	16500	13000
18	11300	9980	11600	12400	14800	17200	20400	17400	18600	16300	16300	13600
19	11600	11500	11800	12400	13500	17200	20300	17800	19400	16400	17400	14200
20	10800	13100	11300	11600	13300	17600	19700	18200	18300	17500	17500	16000
21	10800	13200	9450	10900	14000	17000	19500	19100	18100	17300	16500	15100
22	12000	13300	9520	12800	16000	18000	19800	18300	17300	16700	16400	15900
23	12200	13300	9500	12000	15200	17800	20300	17600	17300	16600	12200	16200
24	11900	12600	9410	12100	15000	17600	21200	18200	17300	18300	15000	15500
25	10800	12600	9430	12000	17400	18300	20300	18700	16800	19000	15300	13100
26	9760	11700	9430	11800	19300	18700	20400	19200	17800	19000	14500	14400
27	11200	11600	9630	11700	19300	18800	19300	17000	17300	17600	15500	14600
28	10200	10700	9580	13100	19300	19200	18700	16800	17800	17600	15500	10900
29	9030	10100	9190	12600	---	19200	20200	18500	17700	16600	15500	12800
30	9040	10600	9410	12600	---	18400	20200	19300	18000	16800	15400	15400
31	9190	---	9630	13000	---	18300	---	19800	---	16700	15500	---
TOTAL	350720	320970	327820	354240	421700	559300	592200	579300	546700	534700	487300	416400
MEAN	11310	10700	10570	11430	15060	18040	19740	18690	18220	17250	15720	13880
MAX	13800	13300	12700	13100	19300	19200	21200	20900	19500	19000	17500	16200
MIN	9030	8990	9190	9760	12700	16700	18100	16800	16800	15900	12200	10900
AC-FT	695700	636600	650200	702600	836400	1109000	1175000	1149000	1084000	1061000	966600	825900

CAL YR 2001 TOTAL 5327650 MEAN 14600 MAX 22300 MIN 8670 AC-FT 10570000
WTR YR 2002 TOTAL 5491350 MEAN 15040 MAX 21200 MIN 8990 AC-FT 10890000

SNAKE VALLEY

10243260 LEHMAN CREEK NEAR BAKER, NV

LOCATION.--Lat 39°00'42", long 114°12'49", in sec. 10, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, Great Basin National Park, on left bank, 4.8 miles west of Baker.

DRAINAGE AREA.--11.0 mi^2.

PERIOD OF RECORD.--December 1947 to September 1955, October 1992 to September 1997, July to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above NGVD of 1929, from topographic map. Prior to October 3, 1953, at site 45 ft downstream at same datum.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 80 ft^3/s, June 29, 1995, gage height, 5.01 ft; minimum daily, 0.63 ft3/s, March 3, 1993

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July 17 to September 30, 7.7 ft^3/s, gage height, 1.72 ft, July 17; minimum daily, 2.5 ft^3/s, September 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	4.2	3.1
2	---	---	---	---	---	---	---	---	---	---	4.3	3.0
3	---	---	---	---	---	---	---	---	---	---	4.2	2.9
4	---	---	---	---	---	---	---	---	---	---	4.2	2.9
5	---	---	---	---	---	---	---	---	---	---	4.3	3.0
6	---	---	---	---	---	---	---	---	---	---	4.3	3.2
7	---	---	---	---	---	---	---	---	---	---	4.3	3.1
8	---	---	---	---	---	---	---	---	---	---	4.2	3.6
9	---	---	---	---	---	---	---	---	---	---	4.1	3.2
10	---	---	---	---	---	---	---	---	---	---	4.1	3.4
11	---	---	---	---	---	---	---	---	---	---	4.0	3.5
12	---	---	---	---	---	---	---	---	---	---	3.6	e3.4
13	---	---	---	---	---	---	---	---	---	---	3.4	e3.3
14	---	---	---	---	---	---	---	---	---	---	2.9	e3.3
15	---	---	---	---	---	---	---	---	---	---	2.9	e3.3
16	---	---	---	---	---	---	---	---	---	---	3.0	e3.3
17	---	---	---	---	---	---	---	---	---	7.2	3.1	e3.3
18	---	---	---	---	---	---	---	---	---	6.7	3.1	e3.4
19	---	---	---	---	---	---	---	---	---	6.5	3.3	e3.4
20	---	---	---	---	---	---	---	---	---	6.0	3.4	3.4
21	---	---	---	---	---	---	---	---	---	5.6	3.6	3.4
22	---	---	---	---	---	---	---	---	---	5.1	3.6	3.1
23	---	---	---	---	---	---	---	---	---	4.5	3.6	3.3
24	---	---	---	---	---	---	---	---	---	4.7	3.6	3.3
25	---	---	---	---	---	---	---	---	---	4.4	3.5	3.0
26	---	---	---	---	---	---	---	---	---	4.3	3.5	2.7
27	---	---	---	---	---	---	---	---	---	4.4	3.6	2.5
28	---	---	---	---	---	---	---	---	---	4.5	3.5	3.1
29	---	---	---	---	---	---	---	---	---	4.3	3.4	3.1
30	---	---	---	---	---	---	---	---	---	4.4	3.3	2.9
31	---	---	---	---	---	---	---	---	---	4.3	3.2	---
TOTAL	---	---	---	---	---	---	---	---	---	---	113.3	95.4
MEAN	---	---	---	---	---	---	---	---	---	---	3.65	3.18
MAX	---	---	---	---	---	---	---	---	---	---	4.3	3.6
MIN	---	---	---	---	---	---	---	---	---	---	2.9	2.5
AC-FT	---	---	---	---	---	---	---	---	---	---	225	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	2.67	2.05	1.69	1.40	1.30	1.49	2.55	9.33	17.4	12.8	6.88	4.07
MAX	3.72	2.57	2.37	1.87	1.73	2.72	5.20	20.9	39.2	43.5	18.0	8.41
(WY)	1996	1996	1996	1996	1996	1949	1952	1952	1995	1995	1995	1995
MIN	1.58	1.43	1.29	0.82	0.74	1.04	1.32	1.85	4.19	4.90	3.65	2.09
(WY)	1954	1954	1954	1954	1993	1953	1953	1953	1953	1953	2002	1953

SUMMARY STATISTICS WATER YEARS 1948 - 2002

ANNUAL MEAN	5.35	
HIGHEST ANNUAL MEAN	11.0	1995
LOWEST ANNUAL MEAN	2.51	1953
HIGHEST DAILY MEAN	62	Jun 27 1995
LOWEST DAILY MEAN	0.63	Mar 3 1993
ANNUAL SEVEN-DAY MINIMUM	0.65	Feb 28 1993
MAXIMUM PEAK FLOW	80	Jun 29 1995
MAXIMUM PEAK STAGE	5.01	Jun 29 1995
ANNUAL RUNOFF (AC-FT)	3870	
10 PERCENT EXCEEDS	13	
50 PERCENT EXCEEDS	2.5	
90 PERCENT EXCEEDS	1.3	

e Estimated

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'58", long 114°31'44", in SE 1/4 SE 1/4 sec.27, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060003, on right bank, 2.3 mi downstream from North Fork, 4 mi southwest of Cleveland Ranch headquarters, and 18 mi east of Ely.

DRAINAGE AREA.--31.8 mi^2.

PERIOD OF RECORD.--June 1914 to December 1916 (published as Cleveland Creek near Osceola), October 1959 to September 1967, October 1976 to September 1981, December 1982 to September 1987, March 1990 to current year. Crest-stage partial-record station October 1967 to September 1976.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above NGVD of 1929, from topographic map. October 1, 1967, to September 30, 1976, crest-stage gage at same site and datum. Prior to September 13, 1984, at site 1/4 mi upstream, at different datum. Prior to April 18, 1985, at different datum. Prior to October 4, 1985, at datum 2.00 ft lower. From November 19, 1986, at site 75 ft downstream at datum, 5.2 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft^3/s, May 30, 1983, gage height, unknown; minimum daily, 2.7 ft^3/s, December 22, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 20 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 21	1000	*13	*1.61				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	5.7	6.4	6.3	e6.8	e6.7	7.4	e8.6	11	5.7	e4.8	5.0
2	6.0	5.6	6.2	6.3	e6.8	e6.6	7.7	e8.9	11	5.6	e4.8	5.0
3	5.8	5.7	6.2	6.2	e6.8	e6.4	7.9	e8.6	11	5.6	e4.8	5.0
4	5.8	5.8	6.1	6.0	e6.7	e6.2	8.1	e8.7	11	e5.8	e4.8	4.9
5	5.9	5.8	6.0	6.1	e6.7	5.9	8.2	e8.6	10	e5.8	e4.8	5.0
6	6.0	5.7	6.3	6.3	e6.7	5.8	8.4	e8.7	9.9	e5.8	e4.8	5.7
7	6.0	5.9	6.4	6.3	e6.6	6.0	8.2	e9.4	9.8	e5.8	e4.8	5.2
8	6.0	5.6	6.4	6.3	e6.4	6.2	8.3	e9.8	9.7	e5.8	e4.8	5.4
9	6.2	5.6	6.4	6.2	e6.2	e5.8	8.0	e10	9.9	e5.4	e4.8	5.3
10	6.2	5.6	6.2	6.1	e6.1	5.9	8.1	10	9.9	e5.4	e4.8	5.1
11	6.0	5.6	6.2	6.1	e6.0	5.9	8.0	10	9.5	e5.6	e4.8	4.9
12	5.9	5.6	5.6	6.0	e5.8	6.1	8.0	10	8.9	e5.6	e4.8	5.0
13	5.8	6.0	6.4	6.0	e5.6	6.1	8.3	9.9	8.7	e5.6	4.8	4.9
14	5.8	5.8	6.7	6.2	e5.4	7.2	8.6	9.9	8.5	e5.6	5.1	4.8
15	5.8	5.9	5.9	6.1	e5.2	8.0	9.7	9.9	8.3	e5.6	5.1	4.7
16	5.8	5.8	6.6	6.1	5.1	7.4	9.6	e9.9	8.0	e6.0	5.0	5.0
17	5.7	5.8	6.6	7.4	5.1	6.8	9.5	10	7.8	e5.8	5.0	4.8
18	5.8	5.8	6.3	7.6	5.2	6.7	9.1	11	7.5	e5.6	5.0	4.8
19	5.8	5.8	6.4	6.6	5.2	7.5	9.0	11	7.5	e5.4	5.0	4.7
20	5.8	5.8	6.3	5.8	e5.2	6.0	8.8	12	7.3	e5.2	5.1	4.7
21	5.8	5.8	6.3	3.9	5.3	6.1	8.5	12	7.1	e5.0	5.1	4.6
22	5.8	6.2	6.2	4.8	5.7	6.2	8.2	12	7.0	e4.9	5.2	4.6
23	6.0	5.8	6.3	5.8	5.8	6.2	8.0	12	6.9	e4.9	5.2	4.5
24	6.0	5.9	6.5	5.3	5.6	6.0	7.9	12	6.7	e4.9	5.2	4.5
25	6.0	6.1	5.7	e5.3	5.6	6.0	8.2	11	6.5	e4.9	5.1	4.4
26	6.0	5.8	5.4	e5.4	e5.6	6.0	8.7	11	6.4	e4.9	5.1	4.5
27	6.0	5.6	5.5	e5.7	5.7	6.1	9.0	11	6.2	e4.8	5.1	4.5
28	6.0	5.9	6.0	5.9	5.6	6.3	8.9	10	6.1	e4.8	5.1	4.5
29	5.8	6.4	6.4	6.9	---	6.6	e8.6	10	6.0	e4.8	5.0	4.6
30	6.2	6.4	6.3	e6.9	---	6.9	e8.6	10	5.7	e4.8	5.0	4.7
31	6.8	---	6.4	e6.9	---	7.1	---	11	---	e4.8	5.0	---
TOTAL	184.6	174.8	192.6	188.8	164.5	198.7	253.5	316.9	249.8	166.2	153.8	145.3
MEAN	5.955	5.827	6.213	6.090	5.875	6.410	8.450	10.22	8.327	5.361	4.961	4.843
MAX	6.8	6.4	6.7	7.6	6.8	8.0	9.7	12	11	6.0	5.2	5.7
MIN	5.7	5.6	5.4	3.9	5.1	5.8	7.4	8.6	5.7	4.8	4.8	4.4
AC-FT	366	347	382	374	326	394	503	629	495	330	305	288

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	7.391	7.316	6.867	6.582	6.925	8.534	12.42	22.58	23.70	10.77	8.070	7.394
MAX	16.8	15.3	12.9	11.5	11.8	15.4	30.3	82.9	117	30.0	21.1	16.2
(WY)	1985	1985	1985	1984	1984	1984	1984	1983	1983	1983	1983	1983
MIN	4.54	4.53	4.27	4.05	4.42	4.58	5.20	6.85	5.63	4.60	3.99	3.75
(WY)	1993	1962	1961	1960	1960	1991	1991	1990	1992	1992	1960	1960

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	3271.5		2389.5			
ANNUAL MEAN	8.963		6.547		10.21	
HIGHEST ANNUAL MEAN					22.2	1984
LOWEST ANNUAL MEAN					5.15	1960
HIGHEST DAILY MEAN	37	May 17	12	May 20	280	May 30 1983
LOWEST DAILY MEAN	2.8	Jan 17	3.9	Jan 21	2.7	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	3.8	Jan 16	4.5	Sep 22	3.4	Dec 18 1990
MAXIMUM PEAK FLOW			13	May 21	440	May 30 1983
MAXIMUM PEAK STAGE			1.61	May 21	1.98	May 14 2001
ANNUAL RUNOFF (AC-FT)	6490		4740		7400	
10 PERCENT EXCEEDS	17		9.5		18	
50 PERCENT EXCEEDS	6.4		6.0		7.5	
90 PERCENT EXCEEDS	5.5		4.9		5.0	

e Estimated

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV

(Hydrologic Benchmark Station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW $^{1}/_{4}$ SW $^{1}/_{4}$ sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank, 0.1 mi downstream from Clear Creek, 0.8 mi upstream from Cave Creek, and 11 mi southeast of Ely.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--June 1966 to current year.

PRECIPITATION: July 1991 to March 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,440 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85 ft^3/s, July 21, 1985, gage height, 3.21 ft; minimum daily, 1.6 ft^3/s, February 20 and 21, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.7 ft^3/s, May 31, gage height, 1.56 ft; minimum daily, 2.1 ft^3/s, September 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.5	3.8	e3.5	e2.9	e2.8	2.9	2.7	3.1	4.7	3.5	2.5	2.2
2	e3.5	3.8	e3.5	e2.9	e2.7	2.8	2.8	3.1	4.5	3.4	2.6	2.2
3	e3.5	3.7	e3.4	e2.9	e2.7	2.8	2.9	3.1	4.4	3.4	2.5	2.2
4	e3.5	3.7	e3.4	e2.9	e2.7	2.8	3.0	3.0	4.1	3.4	2.4	2.2
5	e3.5	3.7	e3.3	e2.8	e2.7	2.9	3.0	3.1	3.9	3.5	2.4	2.2
6	e3.5	3.7	e3.3	e2.9	e2.7	2.9	3.1	3.1	3.9	3.5	2.4	2.3
7	e3.5	3.7	e3.2	e2.9	e2.9	2.7	3.0	3.3	4.1	3.5	2.5	2.2
8	e3.5	3.7	e3.2	e2.9	e3.0	2.7	2.9	3.4	4.1	3.5	2.5	2.3
9	e3.6	3.7	e3.1	e2.9	e2.9	2.7	2.8	3.4	3.9	3.1	2.4	2.2
10	e3.6	3.7	e3.0	e2.9	e2.9	2.7	3.0	3.4	3.8	3.1	2.4	2.2
11	3.6	3.7	e3.0	e2.9	e3.0	2.7	3.0	3.4	3.6	3.2	2.4	2.2
12	3.6	3.7	e2.9	e3.0	e3.0	2.6	3.0	3.4	3.5	3.2	2.3	2.2
13	3.6	3.7	e2.9	e2.9	e3.0	2.6	3.1	3.3	3.6	3.2	2.3	2.2
14	3.6	3.7	e2.9	e2.9	e3.0	2.6	3.1	3.4	3.6	3.2	2.4	2.2
15	3.6	3.7	e2.9	e2.9	e3.0	2.5	3.2	3.4	3.7	3.2	2.2	2.1
16	3.6	3.7	e2.9	e2.9	e3.0	2.6	3.1	3.4	3.6	3.4	2.3	2.2
17	3.6	3.7	e2.9	e2.9	e3.1	2.5	3.1	3.4	3.6	3.2	2.3	2.2
18	3.7	3.7	e2.9	e2.8	e3.2	2.5	3.1	3.8	3.6	2.9	2.3	2.2
19	3.7	3.8	e2.9	e2.8	3.2	2.6	3.1	3.9	3.5	2.9	2.3	2.2
20	3.7	3.8	e2.9	e2.8	3.2	2.5	3.1	3.9	3.7	2.8	2.3	2.2
21	3.7	3.9	e2.9	e2.9	3.1	2.5	3.0	3.9	3.7	2.7	2.3	2.2
22	3.7	3.9	e2.9	e2.9	3.3	2.5	2.9	3.8	3.6	2.7	2.3	2.2
23	3.7	3.8	e2.9	e2.9	3.3	2.6	2.8	3.6	3.2	2.7	2.3	2.2
24	3.7	3.6	e2.9	e2.9	3.2	2.6	2.8	3.4	3.2	2.7	2.3	2.2
25	3.7	3.6	e2.9	e2.9	3.0	2.6	2.8	3.4	3.3	2.6	2.2	2.2
26	3.7	3.6	e2.9	e2.9	3.0	2.6	2.9	3.4	3.4	2.6	2.3	2.2
27	3.7	e3.6	e2.9	e2.9	3.0	2.6	3.0	3.4	3.6	2.6	2.3	2.2
28	3.7	e3.6	e2.9	e2.9	3.0	2.5	3.0	3.8	3.7	2.6	2.2	2.2
29	3.7	e3.6	e2.9	e2.9	---	2.6	3.0	3.9	3.6	2.6	2.2	2.2
30	3.8	e3.6	e2.9	e2.9	---	2.7	3.1	4.2	3.6	2.5	2.2	2.2
31	3.9	---	e2.9	e2.9	---	2.7	---	4.7	---	2.5	2.2	---
TOTAL	112.5	111.2	93.9	89.6	83.6	82.1	89.4	108.8	112.3	93.9	72.5	66.1
MEAN	3.629	3.707	3.029	2.890	2.986	2.648	2.980	3.510	3.743	3.029	2.339	2.203
MAX	3.9	3.9	3.5	3.0	3.3	2.9	3.2	4.7	4.7	3.5	2.6	2.3
MIN	3.5	3.6	2.9	2.8	2.7	2.5	2.7	3.0	3.2	2.5	2.2	2.1
AC-FT	223	221	186	178	166	163	177	216	223	186	144	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	5.008	4.525	4.027	3.695	3.657	4.104	5.984	11.91	14.97	10.20	6.739	5.439
MAX	10.7	9.74	8.49	7.02	7.09	8.85	13.9	39.7	59.4	33.5	18.0	11.9
(WY)	1983	1983	1983	1984	1984	1983	1984	1983	1983	1983	1983	1983
MIN	2.22	2.04	1.94	1.89	1.81	1.94	2.34	2.48	3.52	2.71	2.20	2.16
(WY)	1993	1993	1993	1993	1993	1991	1991	1991	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	1522.1		1115.9			
ANNUAL MEAN	4.170		3.057		6.755	
HIGHEST ANNUAL MEAN					18.9	1983
LOWEST ANNUAL MEAN					2.84	1990
HIGHEST DAILY MEAN	10	May 17	4.7	May 31	73	May 29 1983
LOWEST DAILY MEAN	2.7	Feb 3	2.1	Sep 15	1.6	Feb 20 1993
ANNUAL SEVEN-DAY MINIMUM	2.8	Feb 3	2.2	Sep 9	1.7	Feb 20 1993
MAXIMUM PEAK FLOW			4.7	May 31	85	Jul 21 1985
MAXIMUM PEAK STAGE			1.56	May 31	3.21	May 24 1983
ANNUAL RUNOFF (AC-FT)	3020		2210		4890	
10 PERCENT EXCEEDS	6.4		3.7		13	
50 PERCENT EXCEEDS	3.6		3.0		4.6	
90 PERCENT EXCEEDS	2.9		2.3		2.7	

e Estimated

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245900 PINE CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°47'40", long 116°51'13", in NW $^1/_4$ SE $^1/_4$ sec.13, T.11 N., R.45 E., Nye County, Hydrologic Unit 16060005, on right bank, 2.9 mi west of Pine Creek Ranch, and 13.8 mi north of Belmont.

DRAINAGE AREA.--12.2 mi^2.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage 7,560 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340 ft^3/s, May 29, 1983, gage height, 4.66 ft; minimum daily, 0.24 ft^3/s, August 26, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	2100	*13	*1.93				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.2	2.2	1.5	1.3	0.99	1.2	1.8	11	4.0	1.3	0.95
2	1.9	2.1	2.2	1.5	1.3	1.0	1.2	1.7	11	3.9	1.3	0.95
3	1.8	2.1	2.2	1.5	1.3	0.99	1.3	1.7	10	3.8	1.2	0.94
4	1.7	2.1	2.1	1.3	1.3	0.94	1.3	1.7	9.6	3.8	1.2	0.95
5	1.8	2.1	2.1	1.5	1.3	0.93	1.2	1.7	9.0	3.6	1.2	0.95
6	2.0	2.2	2.1	1.4	1.3	0.92	1.1	1.7	8.8	3.5	1.2	0.94
7	2.1	2.2	2.1	1.4	1.3	0.92	1.1	1.8	8.7	3.3	1.1	0.92
8	2.2	2.1	2.0	1.4	1.2	0.90	1.1	1.9	8.4	3.2	1.1	0.90
9	2.2	2.0	2.0	1.4	1.2	0.91	1.1	2.0	8.0	3.0	1.1	0.86
10	2.2	1.9	2.0	1.1	1.2	0.91	1.1	2.2	7.1	2.8	1.1	0.83
11	2.2	1.9	2.0	1.4	1.2	0.91	1.1	2.3	6.3	2.6	1.1	0.80
12	2.2	1.9	1.9	1.4	1.2	0.93	1.1	2.5	5.7	2.5	1.1	0.79
13	2.1	2.0	1.9	1.2	1.2	0.92	1.1	2.8	5.4	2.4	1.0	0.78
14	2.1	1.9	1.8	e1.1	1.2	0.85	1.1	3.6	5.3	2.3	1.0	0.76
15	2.0	2.0	1.8	1.0	1.2	0.92	1.2	4.5	5.2	2.2	1.00	0.73
16	2.0	2.0	1.8	0.86	1.1	0.89	1.2	5.3	5.2	2.1	0.99	0.76
17	2.0	2.0	1.8	e0.88	1.1	e0.92	1.1	6.0	5.1	2.3	0.96	0.78
18	2.0	2.0	1.8	e0.89	1.1	e0.94	1.1	7.0	5.1	2.4	0.93	0.80
19	2.0	1.9	1.8	e0.90	1.1	e0.98	1.2	8.5	5.3	2.3	0.94	0.81
20	2.0	2.0	1.8	e0.92	1.2	e1.0	1.2	9.6	5.2	2.2	0.94	0.81
21	2.1	2.1	1.7	e0.94	1.2	1.2	1.3	9.5	5.3	1.9	0.96	0.80
22	2.1	2.1	1.7	e0.96	1.2	1.2	1.3	8.8	5.3	1.8	0.97	0.80
23	2.1	1.8	1.7	e0.98	1.2	1.1	1.2	8.3	5.2	1.6	0.96	0.82
24	2.1	e1.9	1.7	e1.0	1.1	1.1	1.2	7.8	5.1	1.7	0.95	0.82
25	2.2	e2.0	1.7	e1.0	1.1	1.1	1.3	7.3	5.1	2.0	0.94	0.83
26	2.2	1.8	1.7	1.1	1.1	1.1	1.4	7.3	4.9	1.8	0.94	0.86
27	2.2	2.1	1.7	1.1	1.1	1.1	1.6	7.6	4.8	1.6	0.95	0.87
28	2.2	e2.1	1.7	e1.1	1.1	1.2	1.8	8.4	4.6	1.5	0.95	0.92
29	2.1	e2.2	1.7	1.2	---	1.2	1.7	9.3	4.4	1.4	0.96	0.93
30	2.2	2.2	1.6	e1.2	---	1.2	1.7	10	4.2	1.3	0.95	0.93
31	2.3	---	1.6	e1.2	---	1.2	---	11	---	1.3	0.95	---
TOTAL	64.4	60.9	57.9	36.33	33.4	31.37	37.6	165.6	194.3	76.1	32.24	25.59
MEAN	2.077	2.030	1.868	1.172	1.193	1.012	1.253	5.342	6.477	2.455	1.040	0.853
MAX	2.3	2.2	2.2	1.5	1.3	1.2	1.8	11	11	4.0	1.3	0.95
MIN	1.7	1.8	1.6	0.86	1.1	0.85	1.1	1.7	4.2	1.3	0.93	0.73
AC-FT	128	121	115	72	66	62	75	328	385	151	64	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2002, BY WATER YEAR (WY)

MEAN	2.238	1.846	1.522	1.338	1.246	1.639	3.147	16.94	23.08	7.661	3.462	2.279
MAX	4.63	3.06	2.47	2.00	1.90	2.71	9.46	43.7	74.7	34.2	10.7	6.41
(WY)	1985	1985	1984	1984	1984	1983	1985	1983	1995	1998	1984	1984
MIN	1.32	0.99	0.98	0.83	0.75	0.89	1.14	1.77	6.38	1.60	0.60	0.83
(WY)	1993	1986	1993	1987	1987	1987	1991	1991	1989	2000	1997	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1978 - 2002	
ANNUAL TOTAL	2355.54		815.73			
ANNUAL MEAN	6.454		2.235		5.543	
HIGHEST ANNUAL MEAN					13.8	1983
LOWEST ANNUAL MEAN					2.23	1990
HIGHEST DAILY MEAN	55	May 14	11	May 31	290	May 29 1983
LOWEST DAILY MEAN	0.90	Jan 14	0.73	Sep 15	0.24	Aug 26 1997
ANNUAL SEVEN-DAY MINIMUM	0.90	Feb 25	0.77	Sep 11	0.27	Aug 25 1997
MAXIMUM PEAK FLOW			13	Jun 1	340	May 29 1983
MAXIMUM PEAK STAGE			1.93	Jun 1	4.66	May 29 1983
ANNUAL RUNOFF (AC-FT)	4670		1620		4020	
10 PERCENT EXCEEDS	18		5.2		13	
50 PERCENT EXCEEDS	2.1		1.6		1.9	
90 PERCENT EXCEEDS	1.0		0.92		1.1	

e Estimated

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW $^1/_4$ SW $^1/_4$ sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 17.9 mi northeast of Belmont, 27.4 mi east of Carvers on State Highway 376, and 59 mi northeast of Tonopah.

DRAINAGE AREA.--15.1 mi^2.

PERIOD OF RECORD.--October 1977 to September 1982, October 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1983; discharge, 119 ft^3/s, gage height, 5.00 ft, runoff from snowmelt.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s, June 7, 1978, gage height, 3.55 ft; minimum daily, 0.04 ft^3/s, September 12, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 4.0 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 2	0330	*1.90	*1.19				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.84	0.86	0.76	0.61	e0.33	e0.32	0.58	1.2	1.3	0.43	0.14	0.07
2	0.91	0.83	0.75	0.63	e0.34	e0.32	0.63	1.4	1.6	0.42	0.14	0.07
3	0.93	0.82	0.76	0.63	e0.34	e0.33	0.68	1.5	1.5	0.42	0.12	0.07
4	0.94	0.76	0.74	0.61	0.35	0.34	0.70	1.4	1.4	0.41	0.11	0.07
5	0.94	0.76	0.73	0.62	e0.35	0.33	0.72	1.4	1.3	0.39	0.12	0.08
6	0.96	0.76	0.73	0.63	e0.36	0.32	0.69	1.4	1.2	0.37	0.11	0.08
7	0.97	0.75	0.72	0.63	e0.36	0.32	0.62	1.4	1.2	0.36	0.10	0.09
8	0.99	0.72	0.72	0.64	e0.37	0.31	0.66	1.3	1.2	0.34	0.10	0.09
9	1.0	0.72	0.72	0.63	0.38	0.33	0.63	1.3	1.2	0.32	0.10	0.09
10	1.1	0.72	e0.72	0.55	0.39	0.33	0.61	1.3	1.2	0.30	0.10	0.08
11	1.1	0.72	e0.71	0.60	0.40	0.33	0.66	1.2	1.2	0.30	0.09	0.08
12	1.1	0.72	0.70	0.63	0.41	0.37	0.68	1.2	1.1	0.30	0.09	0.08
13	1.0	0.76	0.71	0.60	0.40	0.36	0.65	1.2	1.0	0.29	0.09	0.08
14	1.00	0.80	0.67	0.50	0.41	e0.35	0.63	1.2	0.95	0.28	0.08	0.08
15	0.99	0.87	0.67	e0.49	0.39	e0.35	0.72	1.2	0.91	0.26	0.08	0.07
16	0.98	0.85	0.72	e0.45	0.40	e0.34	0.66	1.2	0.87	0.25	0.08	0.08
17	0.97	0.82	0.67	0.40	0.41	0.34	0.66	1.2	0.84	0.28	0.08	0.09
18	0.96	0.81	0.65	0.38	0.40	0.32	0.59	1.3	0.84	0.42	0.07	0.09
19	0.97	0.80	0.65	e0.37	0.38	0.36	0.60	1.3	0.84	0.46	0.07	0.09
20	0.97	0.81	0.63	e0.35	0.36	0.40	0.59	1.4	0.81	0.31	0.08	0.09
21	0.98	0.83	0.63	e0.33	0.34	0.39	0.62	1.6	0.80	0.28	0.08	0.09
22	0.98	0.86	0.64	e0.32	0.35	0.38	0.80	1.7	0.81	0.25	0.08	0.09
23	0.97	0.80	0.65	e0.30	0.36	0.36	0.92	1.7	0.74	0.20	0.08	0.09
24	0.97	0.77	0.65	0.28	0.33	0.34	1.1	1.6	0.67	0.20	0.08	0.09
25	0.97	0.69	e0.66	e0.28	e0.32	0.34	1.1	1.5	0.60	0.29	0.08	0.09
26	0.97	0.63	e0.67	e0.29	e0.32	0.35	1.2	1.5	0.57	0.23	0.08	0.10
27	0.97	0.74	e0.68	e0.30	e0.32	0.37	1.2	1.5	0.54	0.20	0.08	0.11
28	0.97	0.79	0.67	e0.30	e0.32	0.45	1.4	1.4	0.52	0.18	0.08	0.13
29	0.97	0.82	0.67	e0.31	---	0.50	1.4	1.4	0.50	0.14	0.08	0.16
30	0.97	0.76	0.65	e0.32	---	0.53	1.3	1.3	0.46	0.14	0.08	0.15
31	0.86	---	0.63	e0.33	---	0.55	---	1.3	---	0.13	0.07	---
TOTAL	30.20	23.35	21.33	14.31	10.19	11.33	24.00	42.5	28.67	9.15	2.82	2.72
MEAN	0.974	0.778	0.688	0.462	0.364	0.365	0.800	1.371	0.956	0.295	0.091	0.091
MAX	1.1	0.87	0.76	0.64	0.41	0.55	1.4	1.7	1.6	0.46	0.14	0.16
MIN	0.84	0.63	0.63	0.28	0.32	0.31	0.58	1.2	0.46	0.13	0.07	0.07
AC-FT	60	46	42	28	20	22	48	84	57	18	5.6	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2002, BY WATER YEAR (WY)

MEAN	0.792	0.731	0.598	0.530	0.504	0.672	1.559	6.870	10.43	3.167	1.209	0.773
MAX	1.87	1.67	1.15	1.17	1.02	1.47	3.66	21.8	56.7	16.4	4.79	2.36
(WY)	1996	1996	1999	1996	1988	1988	1985	2001	1995	1995	1995	1995
MIN	0.24	0.21	0.18	0.16	0.095	0.27	0.53	1.26	0.96	0.30	0.091	0.082
(WY)	1978	1978	1978	1991	1987	1991	1991	1991	2002	2002	2002	1990

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1978 - 2002	
ANNUAL TOTAL	1376.71		220.57			
ANNUAL MEAN	3.772		0.604		2.322	
HIGHEST ANNUAL MEAN					7.87	1995
LOWEST ANNUAL MEAN					0.60	2002
HIGHEST DAILY MEAN	40	May 23	1.7	May 22	79	Jun 8 1978
LOWEST DAILY MEAN	0.24	Feb 20	0.07	Aug 18	0.04	Sep 12 1990
ANNUAL SEVEN-DAY MINIMUM	0.25	Feb 19	0.07	Aug 29	0.04	Sep 10 1990
MAXIMUM PEAK FLOW			1.9	Jun 2	92	Jun 7 1978
MAXIMUM PEAK STAGE			1.19	Jun 2	3.55	Jun 7 1978
ANNUAL RUNOFF (AC-FT)	2730		438		1680	
10 PERCENT EXCEEDS	9.7		1.2		4.4	
50 PERCENT EXCEEDS	0.97		0.61		0.78	
90 PERCENT EXCEEDS	0.40		0.09		0.31	

e Estimated

10249280 KINGSTON CREEK BELOW COUGAR CANYON NEAR AUSTIN, NV

LOCATION.--Lat 39°12'45", long 117°06'45", in NE $^1/_4$ NW $^1/_4$ sec.35, T.16 N., R.43 E., Lander County, Hydrologic Unit 16060004, in Toiyabe National Forest, on left bank, 1.1 mi downstream from Cougar Canyon, and 19 mi southeast of Austin.

DRAINAGE AREA.--23.4 mi^2.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above NGVD of 1929, from topographic map. August 22, 1975, to June 25, 1985, at site 40 ft upstream at datum 5.50 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft about 4 mi upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 385 ft^3/s, May 28, 1983, gage height, 3.19 ft; maximum gage height, 3.86 ft, June 3, 1995; minimum daily, 1.7 ft^3/s, December 28, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.2 ft^3/s, June 1-2, gage height, 1.19 ft; minimum daily, 3.3 ft^3/s, several days in February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.5	4.2	4.4	3.4	3.5	5.0	5.7	7.1	6.9	6.1	4.9
2	4.4	4.4	4.2	4.4	3.3	3.6	5.1	5.8	7.6	6.9	6.2	4.9
3	4.4	4.4	4.3	4.5	3.3	3.6	5.2	5.9	7.3	6.9	6.2	4.9
4	4.3	4.4	4.2	4.5	3.3	3.8	5.2	5.9	7.1	6.9	6.1	4.9
5	4.3	4.3	4.2	4.4	3.3	3.8	5.3	6.0	7.1	6.8	6.1	4.9
6	4.3	4.3	4.2	4.4	3.3	3.7	5.4	6.2	7.0	6.7	6.0	5.0
7	4.3	4.4	4.2	4.4	3.3	3.8	5.4	6.3	7.1	6.7	6.0	5.0
8	4.4	4.4	4.2	4.5	3.4	3.8	5.5	6.4	7.2	6.7	5.9	5.0
9	4.4	4.4	4.2	4.6	3.3	3.9	5.6	6.3	7.3	6.8	5.9	4.9
10	4.4	4.3	4.2	4.6	3.5	3.8	5.9	6.3	7.2	6.8	5.8	4.9
11	4.4	4.2	4.3	4.6	3.5	3.7	5.8	6.4	7.1	6.8	5.7	4.9
12	4.4	4.2	4.4	4.2	3.5	3.7	5.9	6.5	6.7	7.0	5.5	4.8
13	4.4	4.4	4.4	4.2	3.5	4.0	6.1	6.5	6.7	7.0	5.5	4.6
14	4.3	4.2	4.5	4.3	3.5	4.0	5.9	6.6	6.5	7.0	5.4	4.5
15	4.2	4.2	4.4	4.3	3.4	4.2	6.0	6.4	6.5	7.0	5.4	4.5
16	4.2	4.2	4.5	4.2	3.3	4.2	6.2	6.5	6.6	7.1	5.3	4.6
17	4.2	4.2	4.5	4.2	3.3	4.3	6.1	6.5	6.5	7.2	5.3	4.6
18	4.2	4.2	4.5	4.2	3.4	4.3	6.2	6.7	6.3	7.4	5.2	4.6
19	4.2	4.2	4.4	4.0	3.4	4.3	5.7	6.5	6.4	7.3	5.2	4.4
20	4.2	4.2	4.4	4.0	3.5	4.2	5.3	6.5	6.4	7.2	5.2	4.4
21	4.2	4.2	4.4	3.9	3.5	4.3	5.1	6.3	6.6	7.1	5.2	4.4
22	4.4	4.2	4.4	3.9	3.5	4.3	5.1	6.3	6.7	6.9	5.2	4.3
23	4.4	4.4	4.4	3.9	3.5	4.4	5.1	6.3	6.7	6.9	5.1	4.3
24	4.4	4.5	4.4	4.0	3.5	4.5	4.9	6.3	6.7	6.9	5.1	4.2
25	4.3	4.7	4.4	3.7	3.5	4.6	5.0	6.3	6.7	6.8	5.0	4.1
26	4.4	4.6	4.3	3.5	3.5	4.6	5.2	6.4	6.8	6.8	4.9	4.0
27	4.4	4.5	4.3	3.5	3.5	4.6	5.7	6.3	6.8	6.8	4.9	4.0
28	4.4	4.5	4.3	3.5	3.5	4.8	5.6	6.4	6.7	6.8	5.0	4.2
29	4.4	4.4	4.4	3.5	---	5.0	5.6	6.4	6.7	6.6	4.9	4.2
30	4.5	4.2	4.4	3.5	---	4.8	5.6	6.5	6.7	6.2	4.9	4.2
31	4.6	---	4.5	3.7	---	4.9	---	6.6	---	6.2	4.9	---
TOTAL	134.8	130.2	134.6	127.5	95.7	129.0	165.7	196.0	204.8	213.1	169.1	137.1
MEAN	4.348	4.340	4.342	4.113	3.418	4.161	5.523	6.323	6.827	6.874	5.455	4.570
MAX	4.6	4.7	4.5	4.6	3.5	5.0	6.2	6.7	7.6	7.4	6.2	5.0
MIN	4.2	4.2	4.2	3.5	3.3	3.5	4.9	5.7	6.3	6.2	4.9	4.0
AC-FT	267	258	267	253	190	256	329	389	406	423	335	272

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	6.351	5.682	5.090	4.713	4.570	5.133	7.544	17.60	22.39	13.71	9.584	7.288
MAX	12.9	12.7	10.3	9.62	8.86	11.6	45.3	106	79.7	42.4	19.6	13.6
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1998	1998	1984	1984
MIN	3.17	3.14	2.85	2.64	2.75	2.96	2.99	4.71	6.09	5.36	4.24	3.76
(WY)	1967	1967	1967	1967	1982	1967	1967	1968	2000	2000	1972	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	1973.1		1837.6			
ANNUAL MEAN	5.406		5.035		9.154	
HIGHEST ANNUAL MEAN					29.3	1984
LOWEST ANNUAL MEAN					4.65	1982
HIGHEST DAILY MEAN	9.5	May 25	7.6	Jun 2	240	May 28 1983
LOWEST DAILY MEAN	3.3	Jan 6	3.3	Feb 2	1.7	Dec 28 1966
ANNUAL SEVEN-DAY MINIMUM	3.3	Feb 20	3.3	Feb 1	2.0	Dec 24 1966
MAXIMUM PEAK FLOW			8.2	Jun 1	385	May 28 1983
MAXIMUM PEAK STAGE			1.19	Jun 1	3.86	Jun 3 1995
ANNUAL RUNOFF (AC-FT)	3910		3640		6630	
10 PERCENT EXCEEDS	8.8		6.8		14	
50 PERCENT EXCEEDS	4.5		4.5		6.1	
90 PERCENT EXCEEDS	3.4		3.7		3.6	

(Hydrologic Benchmark Station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW $^1/_4$ NE $^1/_4$ sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank, 600 ft upstream from diversion, 3 mi west of State Highway 376, and 15 mi northwest of Round Mountain.

DRAINAGE AREA.--20 mi^2, approximately.

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), August 1965 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft^3/s, May 29, 1983, gage height, 4.39 ft; minimum daily, 0.35 ft^3/s, August 27, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	1945	*8.8	*1.69				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	2.4	2.3	e3.0	e3.2	2.6	4.9	7.2	2.3	1.3	0.73
2	2.0	2.5	2.4	2.4	2.9	e3.1	2.7	5.0	7.7	2.3	1.3	0.73
3	2.0	2.5	2.4	2.4	2.9	e3.1	2.9	4.8	7.4	2.2	1.2	0.72
4	2.0	2.4	2.4	2.1	2.9	e3.1	3.1	4.8	7.1	2.1	1.2	0.78
5	2.0	2.4	2.1	2.2	2.9	3.1	3.3	4.9	6.9	2.0	1.2	0.81
6	2.1	2.4	2.4	2.4	2.9	3.0	3.3	5.0	6.6	1.9	1.1	0.90
7	2.0	2.4	2.4	2.5	2.9	3.0	3.3	5.3	6.3	1.8	1.1	0.94
8	2.0	2.4	2.3	2.5	2.5	e3.0	3.4	5.6	6.2	1.7	1.1	1.0
9	2.1	2.3	2.2	2.4	2.4	e3.0	3.4	5.5	6.2	1.6	1.0	1.1
10	2.2	2.2	2.2	2.2	2.6	3.2	3.5	5.5	6.1	1.4	1.0	1.1
11	2.2	2.2	2.1	2.0	2.6	3.1	3.7	5.4	5.9	1.3	0.94	1.1
12	2.2	2.2	e2.3	2.1	2.5	3.0	3.8	5.2	5.5	1.3	0.89	1.1
13	2.2	2.3	e2.4	2.0	2.4	3.0	3.9	5.2	5.3	1.4	0.87	1.1
14	2.2	2.4	2.5	2.2	2.4	3.0	3.9	5.3	5.0	1.4	0.85	1.1
15	2.2	2.4	e2.4	e2.5	2.5	e3.1	4.4	5.5	4.7	1.3	0.82	1.1
16	2.2	2.3	e2.3	e2.6	2.6	e3.2	4.2	5.7	4.5	1.3	0.80	1.2
17	2.1	2.2	2.3	e2.7	2.7	e3.1	4.1	6.1	4.2	1.3	0.79	1.2
18	2.1	2.2	2.4	e2.8	2.7	e2.9	4.0	6.6	4.0	1.4	0.77	1.2
19	2.1	2.2	2.2	e2.9	2.8	e2.7	3.9	7.3	4.0	1.3	0.74	1.1
20	2.1	2.2	2.2	e3.0	3.1	2.2	3.8	7.9	3.9	1.3	0.75	1.1
21	2.2	2.2	2.2	e3.1	3.0	2.2	3.7	8.1	3.9	1.3	0.78	1.1
22	2.2	2.4	2.2	3.3	3.1	2.2	3.5	7.9	3.7	1.2	0.77	1.1
23	2.2	2.2	2.3	e3.4	3.2	2.2	3.5	8.0	3.5	1.2	0.78	1.1
24	2.3	2.2	e2.3	e3.6	3.2	2.3	3.5	7.6	3.2	1.2	0.76	1.0
25	2.4	2.2	e2.2	3.3	3.2	2.2	3.6	7.4	3.1	1.2	0.75	1.00
26	2.4	2.1	2.2	3.0	3.2	2.2	4.1	7.1	3.0	1.2	0.75	1.0
27	2.4	2.3	2.2	2.9	3.2	2.2	4.4	6.9	2.9	1.2	0.77	0.99
28	2.5	e2.4	2.2	2.9	3.2	2.4	4.9	6.8	2.8	1.1	0.75	1.2
29	2.5	2.5	2.2	3.0	---	2.4	5.0	6.7	2.6	1.1	0.75	1.2
30	2.4	2.5	2.2	e3.2	---	2.5	5.1	6.7	2.4	1.1	0.72	1.2
31	2.5	---	2.4	e3.7	---	2.6	---	6.6	---	1.2	0.74	---
TOTAL	68.0	69.6	70.9	83.6	79.5	85.5	112.5	191.3	145.8	45.6	28.04	31.00
MEAN	2.194	2.320	2.287	2.697	2.839	2.758	3.750	6.171	4.860	1.471	0.905	1.033
MAX	2.5	2.5	2.5	3.7	3.2	3.2	5.1	8.1	7.7	2.3	1.3	1.2
MIN	2.0	2.1	2.1	2.0	2.4	2.2	2.6	4.8	2.4	1.1	0.72	0.72
AC-FT	135	138	141	166	158	170	223	379	289	90	56	61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	2.444	2.621	2.436	2.370	2.722	5.032	9.550	25.19	18.94	6.204	2.877	2.222
MAX	5.37	5.58	5.80	6.25	7.15	17.3	26.5	92.0	80.1	31.8	11.1	6.24
(WY)	1984	1984	1984	1984	2001	2001	2001	1983	1998	1998	1983	1983
MIN	1.25	1.37	1.06	0.92	1.08	1.74	3.31	4.03	4.17	1.37	0.88	0.51
(WY)	1987	1991	1991	1991	1994	1991	1970	1990	1990	1966	1994	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	3804.2		1011.34			
ANNUAL MEAN	10.42		2.771		6.894	
HIGHEST ANNUAL MEAN					20.1	1983
LOWEST ANNUAL MEAN					2.40	1990
HIGHEST DAILY MEAN	85	May 16	8.1	May 21	338	May 29 1983
LOWEST DAILY MEAN	1.4	Jan 10	0.72	Aug 30	0.35	Aug 27 1991
ANNUAL SEVEN-DAY MINIMUM	1.5	Jan 6	0.73	Aug 28	0.40	Sep 19 1987
MAXIMUM PEAK FLOW			8.8	Jun 1	510	May 29 1983
MAXIMUM PEAK STAGE			1.69	Jun 1	4.39	May 29 1983
ANNUAL RUNOFF (AC-FT)	7550		2010		4990	
10 PERCENT EXCEEDS	27		5.2		15	
50 PERCENT EXCEEDS	3.0		2.4		2.9	
90 PERCENT EXCEEDS	2.0		1.1		1.4	

e Estimated

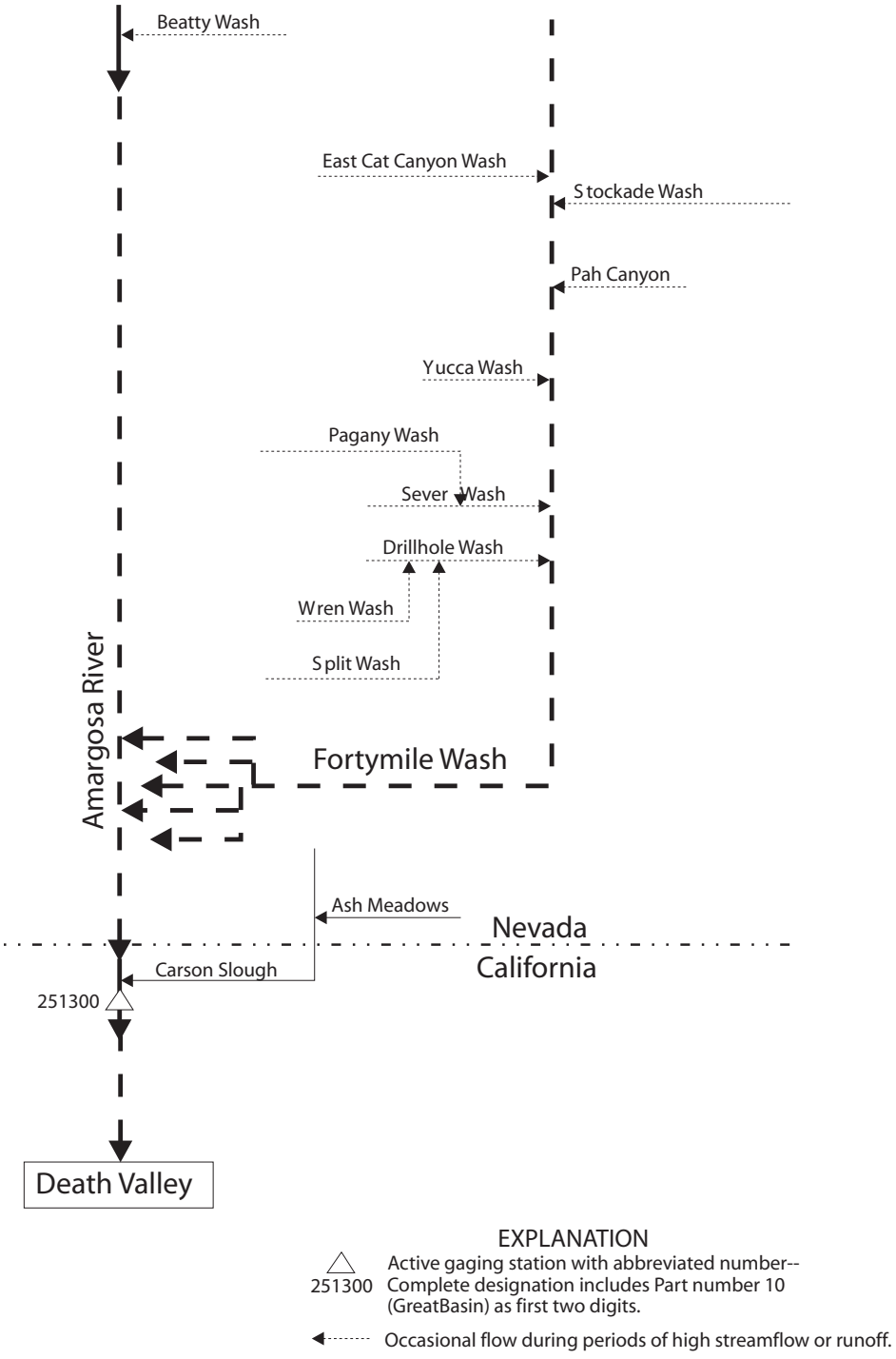


Figure 20. Schematic diagram of flow system and gaging stations in the Amargosa River basin.

OASIS VALLEY

10251217 AMARGOSA RIVER AT BEATTY, NV

LOCATION.--Lat 36°54'38", long 116°45'23", in SW $^{1}/_{4}$ NW $^{1}/_{4}$ sec.7, T.12 S., R.47 E., Nye County, Hydrologic Unit 18090202, on upstream side of culvert at U.S Highway 95, approximately 0.5 mi north of intersection of State Highway 374 and U.S. Highway 95, in Beatty.

DRAINAGE AREA.--458 mi^2 approximately.

PERIOD OF RECORD.--August 1993 to April 1995, January 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage 3,270 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,000 ft^3/s, March 11, 1995, gage height, 6.93 ft; minimum daily, 0.13 ft^3/s, August 13, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.2 ft^3/s, March 3, gage height, 4.27 ft; minimum daily, 0.30 ft^3/s, August 14-21, 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.40	0.64	0.68	0.86	1.0	0.98	0.86	0.80	0.53	0.38	0.34	0.31
2	0.40	0.64	0.70	0.86	1.0	0.98	0.83	0.80	0.56	0.37	0.34	0.31
3	0.39	0.64	0.72	0.86	1.00	0.99	0.83	0.78	0.53	0.38	0.34	0.31
4	0.40	0.64	0.72	0.87	0.98	1.0	0.82	0.78	0.55	0.37	0.34	0.32
5	0.40	0.65	0.72	0.89	0.98	1.0	0.83	0.76	0.47	0.36	0.35	0.34
6	0.41	0.65	0.72	0.89	0.98	1.1	0.83	0.76	0.45	0.36	0.34	0.33
7	0.41	0.64	0.72	0.89	0.98	0.99	0.81	0.75	0.45	0.35	0.35	0.33
8	0.42	0.64	0.72	0.89	0.98	0.98	0.79	0.74	0.45	0.36	0.34	0.33
9	0.42	0.65	0.74	0.89	0.98	0.98	0.79	0.76	0.47	0.36	0.33	0.33
10	0.43	0.64	0.72	0.91	0.98	0.94	0.78	0.78	0.47	0.36	0.33	0.33
11	0.46	0.63	0.72	0.93	0.98	0.92	0.77	0.78	0.45	0.37	0.33	0.33
12	0.45	0.67	0.72	0.93	0.98	0.91	0.76	0.76	0.43	0.37	0.33	0.33
13	0.45	0.72	0.72	0.93	0.98	0.92	0.73	0.73	0.43	0.36	0.32	0.32
14	0.45	0.67	0.75	0.93	0.98	0.93	0.71	0.70	0.43	0.36	0.30	0.32
15	0.45	0.67	0.80	0.98	0.97	1.1	0.76	0.68	0.42	0.36	0.30	0.32
16	0.46	0.67	0.80	0.98	0.97	1.1	0.83	0.76	0.42	0.37	0.30	0.32
17	0.46	0.67	0.80	0.98	0.98	1.0	0.83	0.72	0.39	0.37	0.30	0.33
18	0.47	0.67	0.80	0.98	0.95	1.1	0.83	0.64	0.38	0.39	0.30	0.32
19	0.48	0.68	0.82	0.98	0.93	1.1	0.82	0.63	0.37	0.38	0.30	0.33
20	0.49	0.68	0.84	0.98	0.93	1.1	0.82	0.64	0.38	0.37	0.30	0.33
21	0.51	0.66	0.84	0.99	0.91	1.1	0.82	0.65	0.38	0.36	0.30	0.33
22	0.50	0.65	0.84	0.98	0.90	1.1	0.81	0.68	0.38	0.35	0.31	0.33
23	0.53	0.65	0.85	0.98	0.91	0.93	0.80	0.64	0.37	0.34	0.31	0.34
24	0.56	0.70	0.89	1.00	0.90	0.93	0.82	0.64	0.38	0.35	0.31	0.33
25	0.57	0.68	0.89	1.0	0.89	0.92	0.82	0.63	0.37	0.35	0.30	0.34
26	0.57	0.68	0.89	1.0	0.89	0.91	0.83	0.61	0.38	0.35	0.30	0.33
27	0.58	0.68	0.89	1.0	0.89	0.89	0.83	0.60	0.38	0.35	0.31	0.34
28	0.58	0.71	0.89	1.0	0.91	0.89	0.82	0.56	0.38	0.35	0.31	0.34
29	0.59	0.72	0.89	1.0	---	0.89	0.82	0.55	0.38	0.34	0.31	0.34
30	0.63	0.70	0.89	1.0	---	0.89	0.82	0.54	0.36	0.34	0.31	0.34
31	0.64	---	0.88	1.0	---	0.87	---	0.53	---	0.34	0.31	---
TOTAL	14.96	19.99	24.57	29.36	26.71	30.44	24.22	21.38	12.79	11.17	9.86	9.85
MEAN	0.48	0.67	0.79	0.95	0.95	0.98	0.81	0.69	0.43	0.36	0.32	0.33
MAX	0.64	0.72	0.89	1.0	1.0	1.1	0.86	0.80	0.56	0.39	0.35	0.34
MIN	0.39	0.63	0.68	0.86	0.89	0.87	0.71	0.53	0.36	0.34	0.30	0.31
AC-FT	30	40	49	58	53	60	48	42	25	22	20	20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	0.50	0.60	0.78	1.07	1.34	2.09	0.88	0.67	0.45	0.52	0.33	0.40
MAX	0.83	0.72	1.05	2.34	4.10	9.78	1.08	0.93	0.74	1.34	0.58	0.62
(WY)	1999	1999	1995	1995	1998	1995	1998	1998	1998	1999	1999	1999
MIN	0.32	0.48	0.60	0.67	0.47	0.73	0.70	0.46	0.27	0.20	0.17	0.23
(WY)	1997	1998	1997	1997	1995	1999	1997	1996	1996	1996	1996	1996

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	306.67		235.30			
ANNUAL MEAN	0.84		0.64		0.74	
HIGHEST ANNUAL MEAN					0.98	1998
LOWEST ANNUAL MEAN					0.49	1997
HIGHEST DAILY MEAN	12	Feb 27	1.1	Mar 6	231	Mar 11 1995
LOWEST DAILY MEAN	0.33	Jul 3	0.30	Aug 14	0.13	Aug 13 1997
ANNUAL SEVEN-DAY MINIMUM	0.33	Jul 27	0.30	Aug 14	0.14	Aug 23 1997
MAXIMUM PEAK FLOW			1.2	Mar 18	1000	Mar 11 1995
MAXIMUM PEAK STAGE			4.27	Mar 3	6.93	Mar 11 1995
ANNUAL RUNOFF (AC-FT)	608		467		533	
10 PERCENT EXCEEDS	1.2		0.98		1.0	
50 PERCENT EXCEEDS	0.65		0.67		0.63	
90 PERCENT EXCEEDS	0.35		0.33		0.32	

UPPER AMARGOSA

10251300 AMARGOSA RIVER AT TECOPA, CA

LOCATION.--Lat 35°50'53", long 116°13'43", in NW $^1/_4$ NW $^1/_4$ SE $^1/_4$ sec.9, T.20 N., R.07 E., Inyo County, Hydrologic Unit 18090202, on right bank, 20 ft upstream from Old Spanish Trail Road, and 0.2 mi west of Tecopa.

DRAINAGE AREA.--3,090 mi^2, approximately, much of which is noncontributing.

PERIOD OF RECORD.--October 1961 to August 1983, October 1991 to September 1995, 1998 miscellaneous discharge, January 1999 to current year.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 1,310 ft above NGVD of 1929, from topographic map. Prior to October 16, 1991, at datum 16.52 ft higher.

REMARKS.--Records fair. City of Tecopa pumps water for municipal use upstream. See schematic diagram of Amargosa River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,600 ft^3/s, August 19, 1983, determined from culvert computations and flow over road, gage height, 16.00 ft, datum then in use; no flow some days some years

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 15	1215	*3.1	*4.45				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.44	1.7	1.5	1.7	2.1	0.90	0.26	0.08	0.08	0.14	0.33
2	0.14	0.43	1.8	1.5	1.8	1.3	0.89	0.29	0.08	0.08	0.14	0.32
3	0.14	0.43	1.8	1.5	1.9	1.0	0.99	0.29	0.08	0.08	0.14	0.31
4	0.14	0.41	1.8	1.6	2.0	1.2	1.0	0.28	0.08	0.08	0.14	0.31
5	0.15	0.42	1.4	1.2	2.0	1.4	1.0	0.25	0.08	0.09	0.15	0.32
6	0.15	0.41	1.5	1.2	2.0	1.5	0.93	0.22	0.08	0.09	0.15	0.34
7	0.17	0.43	1.9	1.3	2.0	1.5	0.91	0.18	0.07	0.09	0.16	0.35
8	0.18	0.46	1.5	1.4	2.0	1.4	0.86	0.18	0.06	0.09	0.17	0.37
9	0.17	0.41	1.7	1.4	1.9	0.99	0.87	0.14	0.07	0.09	0.17	0.40
10	0.16	0.46	2.2	1.7	1.5	1.2	0.66	0.13	0.07	0.09	0.17	0.41
11	0.17	0.49	2.2	1.1	1.5	1.4	0.68	0.14	0.07	0.09	0.18	0.42
12	0.17	0.53	1.5	1.2	1.7	1.4	0.71	0.11	0.07	0.09	0.18	0.43
13	0.18	0.61	1.3	1.3	1.8	1.4	0.67	0.13	0.06	0.09	0.19	0.44
14	0.19	0.70	1.4	1.5	1.9	0.99	0.57	0.13	0.06	0.09	0.19	0.44
15	0.18	0.58	2.0	1.9	1.9	0.76	0.38	0.13	0.06	0.10	0.22	0.45
16	0.19	0.52	1.3	1.6	1.8	0.87	0.32	0.10	0.06	0.10	0.23	0.43
17	0.20	0.48	1.4	1.3	1.8	0.79	0.32	0.10	0.06	0.10	0.24	0.42
18	0.21	0.49	1.4	1.6	1.8	1.8	0.39	0.09	0.06	0.11	0.25	0.41
19	0.21	0.51	1.4	1.6	1.8	1.7	0.43	0.09	0.06	0.11	0.26	0.42
20	0.21	0.54	1.5	1.8	1.8	1.7	0.45	0.09	0.06	0.12	0.28	0.43
21	0.21	0.55	1.6	1.7	1.9	1.8	0.42	0.09	0.06	0.11	0.29	0.49
22	0.21	0.54	1.6	2.0	1.9	1.8	0.44	0.10	0.06	0.11	0.29	0.47
23	0.22	0.60	1.8	1.8	1.8	1.6	0.43	0.10	0.07	0.12	0.30	0.47
24	0.26	0.69	1.5	1.6	1.7	1.2	0.42	0.10	0.07	0.14	0.30	0.49
25	0.28	1.1	1.1	1.7	1.4	1.4	0.46	0.10	0.07	0.13	0.29	0.51
26	0.29	0.90	1.2	1.9	1.4	1.4	0.43	0.10	0.07	0.13	0.27	0.50
27	0.31	1.3	1.3	2.0	1.5	1.6	0.46	0.09	0.07	0.13	0.31	0.51
28	0.34	1.2	1.3	2.0	1.5	1.5	0.40	0.09	0.08	0.13	0.31	0.52
29	0.35	1.5	1.4	2.0	---	1.5	0.39	0.09	0.08	0.14	0.31	0.47
30	0.38	1.7	1.7	2.0	---	1.2	0.31	0.09	0.08	0.14	0.33	0.49
31	0.43	---	1.5	1.7	---	0.82	---	0.09	---	0.14	0.33	---
TOTAL	6.72	19.83	48.7	49.6	49.7	42.22	18.09	4.37	2.08	3.28	7.08	12.67
MEAN	0.22	0.66	1.57	1.60	1.77	1.36	0.60	0.14	0.069	0.11	0.23	0.42
MAX	0.43	1.7	2.2	2.0	2.0	2.1	1.0	0.29	0.08	0.14	0.33	0.52
MIN	0.13	0.41	1.1	1.1	1.4	0.76	0.31	0.09	0.06	0.08	0.14	0.31
AC-FT	13	39	97	98	99	84	36	8.7	4.1	6.5	14	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	1.49	0.90	4.11	6.49	11.6	6.37	1.37	0.46	0.14	0.58	5.87	4.16
MAX	39.1	11.4	65.3	56.2	95.6	54.2	13.4	3.19	2.55	3.52	103	93.1
(WY)	1977	1966	1966	1995	1993	1983	1978	1977	1969	1965	1983	1976
MIN	0.000	0.005	0.39	0.70	0.69	0.36	0.074	0.018	0.000	0.000	0.000	0.000
(WY)	1972	1993	1994	1994	1979	1994	1994	1993	1966	1963	1962	1964

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	362.26		264.34			
ANNUAL MEAN	0.99		0.72		3.65	
HIGHEST ANNUAL MEAN					14.9	1983
LOWEST ANNUAL MEAN					0.22	1994
HIGHEST DAILY MEAN	46	Feb 26	2.2	Dec 10	1500	Feb 26 1969
LOWEST DAILY MEAN	0.08	Jun 11	0.06	Jun 8	0.00	Jul 23 1962
ANNUAL SEVEN-DAY MINIMUM	0.08	Jun 11	0.06	Jun 13	0.00	Aug 1 1962
MAXIMUM PEAK FLOW			3.1	Jan 15	10600	Aug 19 1983
MAXIMUM PEAK STAGE			4.45	Jan 15	16.00	Aug 19 1983
ANNUAL RUNOFF (AC-FT)	719		524		2650	
10 PERCENT EXCEEDS	1.6		1.8		2.4	
50 PERCENT EXCEEDS	0.33		0.43		0.22	
90 PERCENT EXCEEDS	0.09		0.09		0.00	

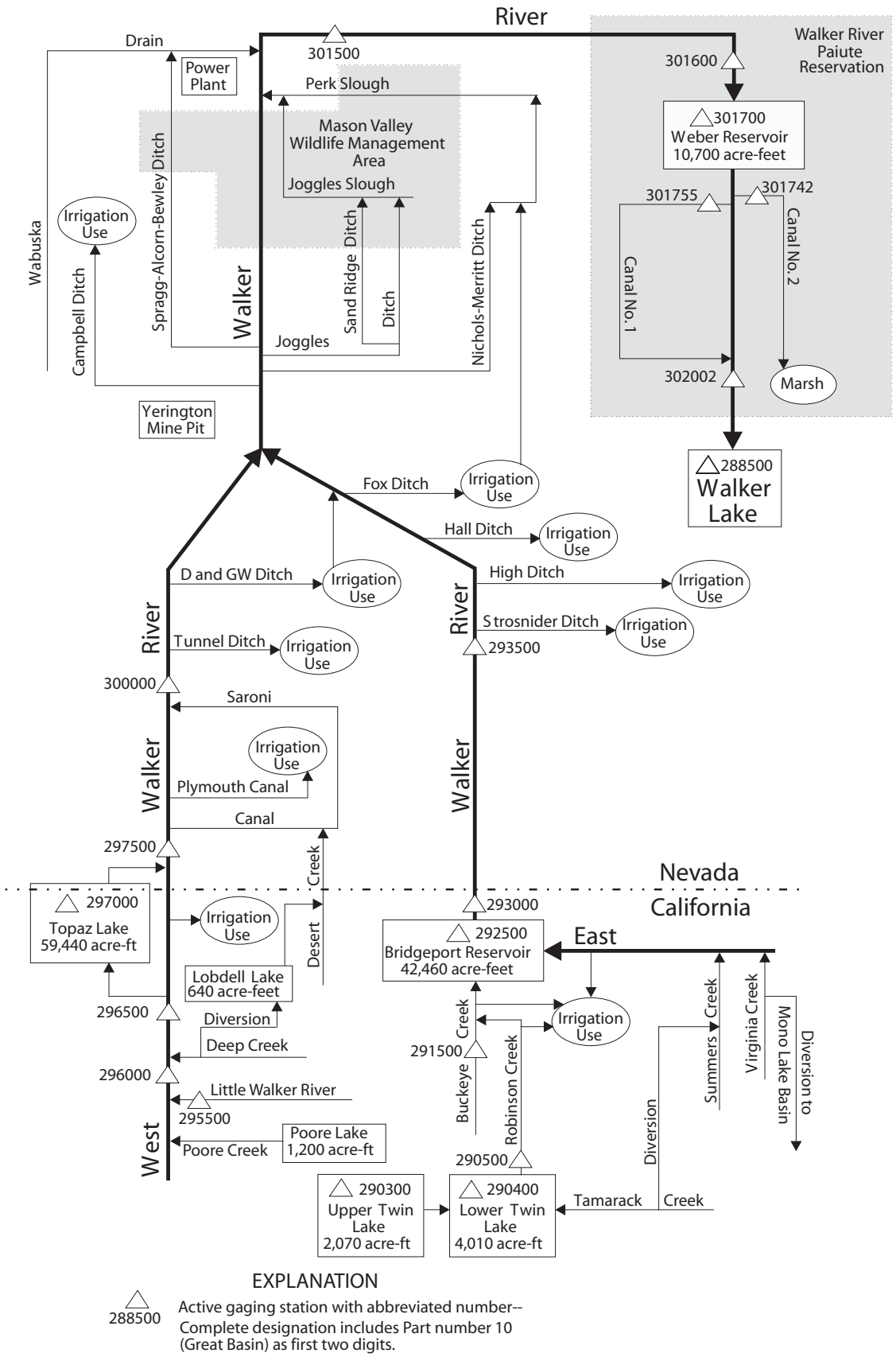


Figure 21. Schematic diagram of flow system and gaging stations in the Walker River basin.

10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°40'36", long 118°46'16", in SE $^{1}/_{4}$ SE $^{1}/_{4}$ sec.27, T.10 N., R.29 E., Mineral County, Hydrologic Unit 16050304, 14.5 mi northwest of Hawthorne.

DRAINAGE AREA.--4,050 mi^2, approximately.

PERIOD OF RECORD.--August 1928 to current year. Occasional readings prior to August 1928.

GAGE.--Nonrecording gage. Datum of gage is above NGVD of 1929 (U.S. Coast and Geodetic Survey bench mark at U.S. Army Depot). Prior to December 6, 1978, at site 5.5 mi northwest of Hawthorne, at same datum.

REMARKS.--Elevations determined from reference points referred to U.S.C.G.S. bench mark. Elevations are given to the nearest 0.1 ft and contents to four significant figures in order to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft, March 13, 1928, elevation, 4,051.8 ft, U.S. Bureau of Indian Affairs; minimum observed, 1,973,000 acre-ft, May 8, 1995, elevation, 3,941.1 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft, adjustment of 1912, was observed September 27, 1908, by U.S. Geological Survey (contents, 8,622,000 acre-ft, table now in use). An elevation of about 4,083 ft for 1882 is estimated by Rush (U.S. Geological Survey Hydrologic Investigations Atlas HA-415, 1970), on the basis of bathymetric data.

EXTREMES FOR CURRENT YEAR--Maximum contents observed, 2,183,000 acre-ft, October 1, elevation 3,947.4 ft; minimum observed, 2,062,000 acre-ft, August 28, elevation 3,943.8 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30	3,947.5	,2,187,000	--
October 31	3,947.1	2,173,000	-14,000
November 30	3,946.8	2,163,000	-10,000
December 31	3,946.3	2,146,000	-17,000
CALENDAR YEAR 2001	--	--	-133,000
January 31	3,946.2	2,143,000	-3,000
February 28	3,946.0	2,136,000	-7,000
March 31	3,945.8	2,129,000	-7,000
April 30	3,945.7	2,126,000	-3,000
May 31	3,945.4	2,116,000	-10,000
June 30	3,944.9	2,099,000	-17,000
July 31	3,944.4	2,082,000	-17,000
August 31	3,943.7	2,059,000	-23,000
September 30	3,943.1	2,039,000	-20,000
WATER YEAR 2002	--	--	-148,000

NOTE.--Monthend elevations are interpolated from readings made during the year.

10290300 UPPER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°09'15", long 119°20'58", in NW $^1/_4$ NE $^1/_4$ sec.5, T.3 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of upper lake dam on Robinson Creek, and 10 mi southwest of Bridgeport.

DRAINAGE AREA.--29.5 mi^2.

PERIOD OF RECORD.--December 1961 to February 1964, September 1964 to current year.

GAGE.--Non-recording gage. Datum of gage is 7,212.86 ft above NGVD of 1929 (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet. Figures given herein represent usable contents. Usable contents, 2,070 acre-ft between elevations 7,200 ft, natural rim, and 7,207 ft, spillway crest. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,990 acre-ft, July 7, 1983, elevation, 7,209.85 ft; minimum observed, 30 acre-ft, November 1, 1990, elevation, 7,200.11 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--No usable contents observed October 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,630 acre-ft, May 31, elevation, 7,208.75 ft; minimum observed, 1,360 acre-ft, September 3, elevation, 7,204.75 ft.

MONTHEND ELEVATION, IN FEET ABOVE NGVD OF 1929, AND TOTAL CONTENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30	7,206.25	1,830	--
October 31	7,205.75	1,670	-160
November 30	7,206.26	1,830	+160
December 31	7,206.90	2,040	+210
CALENDAR YEAR 2001	--	--	+30
January 31	7,206.65	1,960	-80
February 28	7,206.63	1,950	-10
March 31	7,206.09	1,780	-170
April 30	7,207.71	2,300	+520
May 31	7,208.75	2,630	+330
June 30	7,208.33	2,500	-130
July 31	7,207.63	2,270	-230
August 31	7,205.00	1,440	-830
September 30	7,205.60	1,630	+190
WATER YEAR 2002	--	--	-200

NOTE.--Monthend elevations are interpolated from readings made during the year.

WALKER LAKE BASIN

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.33, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at outlet of lower lake dam on Robinson Creek, and 8 mi southwest of Bridgeport.

DRAINAGE AREA.--38.9 mi^2.

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Non-recording gage. Datum of gage is 7,205.45 ft above NGVD of 1929 (project datum of U.S. Indian Irrigation Service).

REMARKS.--Contents regulated by dam at outlet and by Upper Twin Lake. Figures given herein represent usable contents. Usable contents, 4,010 acre-ft between elevations 7,190 ft, natural rim, and 7,200 ft, spillway crest. One transarea diversion out of Tamarack Creek into Summers Creek. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,560 acre-ft, June 19, 1983, elevation, 7,203.58 ft; no contents, November 17, 1966.

EXTREMES FOR CURRENT YEAR--Maximum contents observed, 4,620 acre-ft, May 31, elevation, 7,201.44 ft; minimum observed, 2,780 acre-ft, September 30, elevation 7,196.95 ft.

MONTHEND ELEVATION AND CONTENTS, IN FEET ABOVE NGVD OF 1929 , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30	7,197.04	2,820	--
October 31	7,197.70	3,080	+260
November 30	7,198.63	3,450	+370
December 31	7,200.39	4,180	+730
CALENDAR YEAR 2001	--	--	+910
January 31	7,200.44	4,200	+20
February 28	7,200.48	4,210	+10
March 31	7,200.52	4,230	+20
April 30	7,200.96	4,410	+180
May 31	7,201.44	4,620	+210
June 30	7,201.43	4,620	0
July 31	7,199.39	3,760	-860
August 31	7,197.26	2,900	-860
September 30	7,196.95	2,780	-120
WATER YEAR 2002	--	--	-40

NOTE.--Monthend elevations are interpolated from readings made during the year.

WALKER LAKE BASIN

10290500 ROBINSON CREEK AT TWIN LAKES OUTLET, NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'20", long 119°19'25", in SE $^1/_4$ SE $^1/_4$ sec.28, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, on left bank, 0.2 mi downstream from Lower Twin Lake, and 8 mi southwest of Bridgeport.

DRAINAGE AREA.--39.1 mi^2.

PERIOD OF RECORD.--October 1953 to September 1975, May 1992 to September 1994 (irrigation season only), October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Upper and Lower Twin Lakes. See schematic diagram of Walker Lake Basin.

REVISIONS.--WSP 1927: Drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft^3/s, January 3, 1997, gage height, 5.44 ft; no flow many days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft^3/s, June 2, 3, gage height, 2.97 ft; minimum daily, 3.1 ft^3/s, December 14-17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	7.3	4.8	13	15	14	16	46	163	124	90	20
2	8.1	7.3	5.0	15	15	14	17	45	180	123	89	18
3	8.1	7.4	5.1	16	15	14	17	43	182	122	88	18
4	7.9	7.5	5.1	17	15	14	18	43	175	117	86	18
5	8.1	7.5	5.1	17	15	13	19	43	168	113	84	15
6	8.2	7.4	5.1	17	14	15	21	45	167	107	84	10
7	8.2	7.3	5.1	17	14	18	23	48	170	102	83	10
8	7.8	7.3	5.0	17	14	16	26	53	174	98	83	11
9	7.9	7.5	4.1	17	15	17	30	58	169	95	82	12
10	7.9	7.5	4.1	17	15	16	33	61	159	92	81	12
11	7.8	7.6	4.2	17	14	13	35	64	147	88	79	11
12	8.0	6.7	4.2	17	14	14	39	64	137	86	78	11
13	8.2	5.3	4.8	16	14	13	44	78	132	85	77	11
14	8.2	5.3	3.1	17	14	13	50	82	132	85	75	11
15	8.5	5.3	3.1	15	14	13	57	84	134	84	54	12
16	8.6	5.4	3.1	15	14	14	65	86	136	81	39	12
17	8.6	5.6	3.1	15	16	13	71	98	135	78	39	12
18	8.6	5.5	3.2	15	16	12	68	110	134	75	37	12
19	8.6	5.5	3.3	15	15	12	64	119	136	71	36	12
20	8.6	6.2	3.3	14	15	13	60	128	143	68	36	12
21	8.6	7.3	3.3	15	15	13	56	127	145	67	35	12
22	8.5	6.9	3.6	13	15	14	52	120	144	68	32	12
23	8.4	6.2	3.5	13	15	15	49	110	139	65	30	12
24	8.4	6.2	3.5	14	14	15	46	101	130	68	29	12
25	8.4	5.9	3.6	15	14	15	45	94	125	80	29	12
26	8.4	5.9	4.0	14	14	15	47	90	124	78	27	12
27	8.4	5.9	5.5	14	14	15	49	91	125	81	25	12
28	8.4	5.8	6.1	14	14	15	48	95	126	84	22	12
29	8.4	5.0	8.5	14	---	15	48	104	126	84	21	12
30	8.0	5.0	10	14	---	15	48	118	125	83	20	11
31	7.5	---	12	14	---	16	---	139	---	87	20	---
TOTAL	255.5	192.5	147.5	473	408	444	1261	2587	4382	2739	1690	379
MEAN	8.242	6.417	4.758	15.26	14.57	14.32	42.03	83.45	146.1	88.35	54.52	12.63
MAX	8.6	7.6	12	17	16	18	71	139	182	124	90	20
MIN	7.5	5.0	3.1	13	14	12	16	43	124	65	20	10
AC-FT	507	382	293	938	809	881	2500	5130	8690	5430	3350	752

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

MEAN	21.33	9.276	7.634	16.62	16.76	17.39	45.74	108.5	189.5	160.6	94.95	49.15
MAX	42.4	30.9	36.1	166	63.4	44.8	79.4	187	349	400	199	89.0
(WY)	1999	1999	1997	1997	1963	1997	1959	1997	1969	1995	1995	1974
MIN	7.00	0.67	0.000	0.000	0.000	0.000	22.3	59.1	68.2	62.0	35.1	12.6
(WY)	1995	1958	1954	1954	1954	1955	1975	1955	1992	1992	1992	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1954 - 2002	
ANNUAL TOTAL	14395.9		14958.5			
ANNUAL MEAN	39.44		40.98		63.17	
HIGHEST ANNUAL MEAN					100	1995
LOWEST ANNUAL MEAN					33.8	1961
HIGHEST DAILY MEAN	206	May 26	182	Jun 3	998	Jan 3 1997
LOWEST DAILY MEAN	3.1	Dec 14	3.1	Dec 14	0.00	Nov 3 1953
ANNUAL SEVEN-DAY MINIMUM	3.2	Dec 14	3.2	Dec 14	0.00	Nov 3 1953
MAXIMUM PEAK FLOW			184	Jun 2	1170	Jan 3 1997
MAXIMUM PEAK STAGE			2.97	Jun 2	5.44	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	28550		29670		45760	
10 PERCENT EXCEEDS	96		121		162	
50 PERCENT EXCEEDS	18		15		29	
90 PERCENT EXCEEDS	5.5		5.7		0.60	

10291500 BUCKEYE CREEK NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°14'20", long 119°19'30", in NE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.04, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank at Buckeye Hot Springs, 0.6 mi downstream from Eagle Creek, and about 5.5 mi southwest of Bridgeport.

DRAINAGE AREA.--44.1 mi^2.

PERIOD OF RECORD.--November 1910 to September 1914 (fragmentary), October 1953 to September 1979, October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,900 ft above NGVD of 1929, from topographic map. November 1910 to September 1914, non-recording gage at site 0.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion above station. See schematic diagram of Walker Lake Basin.

REVISIONS.--WSP 1927: Drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,750 ft^3/s, January 2, 1997; gage height, 7.49 ft; minimum daily, 4.5 ft^3/s, January 12, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1911, reached an observed stage of 4.8 ft, discharge not determined, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 15	0230	164	2.61	May 30	2245	*286	*2.99
May 18	0045	246	2.88				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	14	15	15	e16	19	41	48	218	89	29	14
2	e10	13	17	16	e16	19	48	48	181	87	29	13
3	e10	13	14	16	16	19	55	53	162	81	28	13
4	e10	13	e14	15	16	19	64	64	165	75	27	15
5	e10	13	e14	16	16	20	73	81	179	69	25	15
6	e10	12	e14	17	16	20	65	94	184	66	25	24
7	e10	12	e14	17	16	17	63	106	184	64	24	25
8	e10	12	e14	16	15	21	69	105	168	60	23	19
9	e10	11	e14	15	15	22	73	105	142	56	22	18
10	e10	11	e14	14	15	19	69	99	122	54	22	17
11	e10	12	e13	15	15	19	73	87	120	52	21	16
12	e10	12	e13	14	14	21	87	92	125	53	20	16
13	e10	12	e13	14	14	19	95	110	136	53	19	15
14	e10	12	13	16	14	17	115	133	139	52	19	14
15	e10	12	e13	13	14	19	126	143	129	49	19	14
16	e10	12	e14	15	14	19	86	153	126	46	18	14
17	e11	12	e14	e17	14	18	73	178	123	44	18	14
18	e10	11	e14	e17	13	19	63	199	131	43	17	14
19	e10	11	e15	e17	14	17	58	179	136	39	17	14
20	e10	11	15	e16	15	18	55	143	133	36	17	14
21	e10	12	16	e16	15	19	53	108	125	35	17	14
22	11	21	15	e16	17	20	54	92	112	33	17	13
23	11	14	14	e16	19	20	57	85	106	32	17	13
24	10	28	14	e16	18	18	65	88	104	30	17	13
25	10	17	e14	e16	18	18	70	106	102	30	16	13
26	11	18	e14	e15	19	18	78	126	104	29	16	13
27	11	18	14	e15	20	20	67	145	101	28	16	13
28	10	e17	14	15	20	23	59	147	96	27	15	14
29	10	17	15	15	---	25	56	177	92	26	15	14
30	18	e16	14	e15	---	30	52	209	90	25	15	14
31	19	---	16	e15	---	35	---	214	---	27	14	---
TOTAL	332	419	441	481	444	627	2062	3717	4035	1490	614	452
MEAN	10.71	13.97	14.23	15.52	15.86	20.23	68.73	119.9	134.5	48.06	19.81	15.07
MAX	19	28	17	17	20	35	126	214	218	89	29	25
MIN	10	11	13	13	13	17	41	48	90	25	14	13
AC-FT	659	831	875	954	881	1240	4090	7370	8000	2960	1220	897

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

MEAN	22.74	21.93	21.81	24.05	21.37	25.75	51.85	140.7	202.1	126.0	50.91	28.97
MAX	41.4	44.4	52.2	158	55.8	70.6	115	322	432	399	115	65.6
(WY)	1957	1974	1965	1997	1997	1997	1997	1969	1911	1911	1967	1911
MIN	7.43	11.6	10.2	10.2	10.2	11.7	22.3	32.2	43.4	18.8	9.76	7.55
(WY)	1978	1962	1978	1960	1977	1977	1967	1977	1976	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1911 - 2002	
ANNUAL TOTAL	13738.3		15114			
ANNUAL MEAN	37.64		41.41		60.28	
HIGHEST ANNUAL MEAN					114	1969
LOWEST ANNUAL MEAN					19.5	1977
HIGHEST DAILY MEAN	240	May 16	218	Jun 1	1050	Jan 2 1997
LOWEST DAILY MEAN	9.3	Feb 18	10	Oct 1	4.5	Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	10	Oct 1	10	Oct 1	5.5	Jan 11 1963
MAXIMUM PEAK FLOW			286	May 30	2750	Jan 2 1997
MAXIMUM PEAK STAGE			2.99	May 30	7.49	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	27250		29980		43670	
10 PERCENT EXCEEDS	98		113		164	
50 PERCENT EXCEEDS	15		18		28	
90 PERCENT EXCEEDS	11		12		13	

e Estimated

10292500 BRIDGEPORT RESERVOIR NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'30", long 119°12'40", in SE $^1/_4$ NE $^1/_4$ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, at Bridgeport Dam on East Walker River, and 4.5 mi north of Bridgeport.

DRAINAGE AREA.--358 mi^2.

PERIOD OF RECORD.--March 1926 to current year. Month end contents only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1949. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,466.44 ft above NGVD of 1929 (project datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began December 8, 1923. Dam completed in November 1924. Capacity, 42,460 acre-ft between elevations 6,415 ft, approximate elevation of bottom of reservoir, and 6,461 ft. Crest of spillway is at elevation 6,460.75 ft; however, there are four siphons that become operative prior to reaching this spillway. Elevation of sill of outlet gate, 6,412 ft. No dead storage. Figures given herein represent total contents. Water is used for irrigation by Walker River Irrigation District. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft, June 16, 1974, elevation 6,460.78 ft; no usable contents at times in water years 1929, 1930, 1960, 1977, 1988, and 1989.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,320 acre-ft, March 22, elevation, 6,449.15 ft; minimum 5,670 acre-feet, October 30, elevation, 6,439.29 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

6,425	334	6,440	6,240	6,455	29,160
6,430	1,130	6,445	11,380	6,460	42,460
6,435	2,920	6,450	18,780	6,461	45,490

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6770	5900	7940	10520	13460	16500	17030	15950	15200	14920	10980	7960
2	6720	5950	8060	10670	13530	16570	17000	15850	15310	14770	10900	7930
3	6650	6000	8160	10830	13600	16630	16950	15770	15370	14550	10800	7890
4	6580	6040	8230	10970	13680	16680	16900	15690	15410	14360	10700	7810
5	6580	6100	8270	11060	13760	16650	16840	15630	15530	14140	10590	7710
6	6500	6130	8400	11180	13830	16690	16790	15550	15680	13960	10500	7560
7	6450	6190	8470	11320	13910	16730	16760	15470	15820	13830	10380	7420
8	6400	6230	8530	11470	14000	16760	16730	15430	15820	13690	10260	7320
9	6370	6280	8630	11600	14110	16870	16660	15340	15990	13580	10170	7210
10	6320	6310	8680	11760	14200	16840	16600	15250	16040	13490	10050	7150
11	6290	6390	8780	11870	14330	16870	16580	15190	16040	13350	9910	7090
12	6300	6450	8830	11980	14450	16930	16540	15100	16010	13200	9790	7050
13	6300	6510	8970	12100	14570	16870	16570	15040	15980	13050	9650	7000
14	6290	6560	9010	12190	14700	16930	16650	15060	15870	12930	9480	6940
15	6300	6620	9040	12290	14880	16950	16630	15070	15720	12790	9310	6890
16	6310	6670	9110	12340	15000	16960	16710	15110	15610	12620	9150	6840
17	6290	6730	9210	12390	15110	16900	16650	15170	15550	12580	9000	6790
18	6240	6780	9280	12430	15230	16980	16610	15280	15490	12560	8840	6800
19	6170	6860	9340	12490	15400	17000	16600	15410	15520	12500	8680	6770
20	6100	6910	9450	12560	15530	17010	16500	15400	15610	12440	8520	6740
21	6050	6900	9510	12660	15690	17040	16470	15340	15740	12370	8410	6730
22	5970	7010	9600	12730	15960	17060	16410	15280	15900	12270	8340	6730
23	5910	7080	9680	12770	15930	17090	16300	15160	15980	12130	8290	6730
24	5860	7390	9730	12850	16060	17130	16220	15060	16010	11980	8250	6680
25	5830	7490	9770	12940	16170	17130	16170	14940	15980	11820	8210	6620
26	5800	7540	9850	13040	16280	17130	16220	14830	15880	11690	8170	6490
27	5770	7610	9950	13150	16360	17090	16170	14760	15720	11580	8110	6360
28	5740	7670	10040	13200	16360	17080	16140	14740	15520	11430	8060	6280
29	5700	7780	10130	13270	---	17080	16110	14760	15320	11310	8020	6220
30	5760	7840	10260	13320	---	17060	16010	14890	15130	11200	8000	6180
31	5830	---	10410	13390	---	17060	---	15040	---	11070	7980	---
MAX	6770	7840	10410	13390	16360	17130	17030	15950	16040	14920	10980	7960
MIN	5700	5900	7940	10520	13460	16500	16010	14740	15130	11070	7980	6180
#	6439.49	6441.75	6444.18	6446.56	6448.56	6449.00	6448.34	6447.71	6447.77	6444.74	6441.90	6439.92
##	-980	+2010	+2570	+2980	+2970	+700	-1050	-970	+90	-4060	-3090	-1800

CAL YR 2001 MAX 25540 MIN 5700 ## -6620
WTR YR 2002 MAX 17130 MIN 5700 ## +350

\# Elevation, in feet above NGVD 1929, at end of month.
Change in contents, in acre-feet.

10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°19'40", long 119°12'50", in SW $^1/_4$ NE $^1/_4$ sec.34, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank, 1,500 ft downstream from Bridgeport Reservoir, 5 mi north of Bridgeport, and 10 mi upstream from Sweetwater Creek.

DRAINAGE AREA.--359 mi^2.

PERIOD OF RECORD.--July 1911 to September 1914 (gage height only), October and November 1921, May 1922 to September 1924, March to July 1925, October 1925 to current year.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above NGVD of 1929, from topographic map. Prior to October 1, 1921, nonrecording gage at site 0.5 mi upstream at different datum. October 1, 1921, to February 21, 1924, water-stage recorder at site 1 mi downstream at different datum. February 22, 1924, to September 30, 1931, water-stage recorder, and October 1, 1931 to May 25, 1939, nonrecording gage at present site at datum 2.34 ft lower. May 26, 1939, to November 27, 1988, water-stage recorder at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records excellent. Diversions for irrigation of meadow pasturelands near Bridgeport. Flow regulated by Bridgeport Reservoir (station 10292500). See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft^3/s, January 4, 1997, gage height, 6.74 ft; minimum daily, 0.20 ft^3/s, November 2, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 274 ft^3/s, June 2, 3, gage height, 3.85 ft; minimum daily, 20 ft^3/s, December 27, 28 and January 3-14.

DISCHARGE CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	21	21	21	27	23	49	69	199	210	88	47
2	60	21	21	21	27	25	53	74	269	201	84	47
3	66	21	22	20	25	26	62	70	246	201	78	50
4	61	21	25	20	27	39	66	65	214	186	78	69
5	58	21	24	20	25	61	63	65	189	182	73	93
6	53	21	21	20	22	66	54	69	187	175	67	97
7	53	21	21	20	22	66	48	74	216	155	67	90
8	53	21	22	20	22	59	44	74	228	138	67	79
9	52	21	22	20	22	49	43	74	221	111	67	75
10	52	21	21	20	22	49	48	70	216	105	75	63
11	45	21	21	20	22	55	44	66	204	116	84	53
12	36	21	21	20	22	62	39	65	198	133	84	53
13	36	21	21	20	23	59	39	62	198	127	84	54
14	36	21	21	20	23	45	39	53	209	121	92	51
15	29	21	26	23	23	39	39	48	223	121	102	45
16	30	21	24	25	23	39	43	48	223	116	98	45
17	43	21	22	25	23	39	51	48	207	107	92	45
18	52	21	24	25	23	41	61	62	181	97	100	45
19	67	21	21	24	23	49	66	93	174	86	106	45
20	67	21	21	25	23	49	62	115	160	81	101	42
21	66	21	22	23	23	49	58	134	154	81	89	37
22	63	21	23	22	23	49	61	120	155	85	62	36
23	58	21	23	25	23	49	66	117	155	98	47	36
24	55	21	25	24	23	49	62	123	156	105	47	47
25	51	22	24	21	23	49	54	123	170	91	47	68
26	51	26	21	21	23	49	48	123	196	81	47	81
27	51	26	20	21	23	49	48	123	219	84	51	82
28	51	24	20	23	23	49	48	123	227	90	55	74
29	44	22	21	26	---	49	60	119	227	86	55	65
30	26	24	21	26	---	49	66	126	227	80	52	57
31	21	---	21	26	---	49	---	155	---	83	47	---
TOTAL	1539	648	683	687	653	1479	1584	2750	6048	3733	2286	1771
MEAN	49.65	21.60	22.03	22.16	23.32	47.71	52.80	88.71	201.6	120.4	73.74	59.03
MAX	67	26	26	26	27	66	66	155	269	210	106	97
MIN	21	21	20	20	22	23	39	48	154	80	47	36
AC-FT	3050	1290	1350	1360	1300	2930	3140	5450	12000	7400	4530	3510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)

MEAN	61.72	29.66	38.07	45.80	51.39	89.32	174.8	256.4	310.5	299.4	238.9	153.8
MAX	301	325	398	804	345	417	721	880	1001	797	638	406
(WY)	1984	1983	1984	1997	1997	1983	1952	1938	1938	1967	1983	1983
MIN	7.35	1.10	2.50	0.50	0.62	5.39	27.5	57.5	36.0	20.4	13.3	17.1
(WY)	1931	1956	1960	1950	1950	1927	1961	1991	1924	1924	1924	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1922 - 2002	
ANNUAL TOTAL	29772		23861			
ANNUAL MEAN	81.57		65.37		146.1	
HIGHEST ANNUAL MEAN					443	1983
LOWEST ANNUAL MEAN					37.5	1931
HIGHEST DAILY MEAN	240	May 13	269	Jun 2	1880	Jan 4 1997
LOWEST DAILY MEAN	16	Jan 5	20	Dec 27	0.20	Nov 2 1955
ANNUAL SEVEN-DAY MINIMUM	16	Jan 5	20	Jan 3	0.20	Nov 2 1955
MAXIMUM PEAK FLOW			274	Jun 2	1910	Jan 4 1997
MAXIMUM PEAK STAGE			3.85	Jun 2	6.74	Jan 4 1997
ANNUAL RUNOFF (AC-FT)	59050		47330		105800	
10 PERCENT EXCEEDS	175		155		342	
50 PERCENT EXCEEDS	66		49		93	
90 PERCENT EXCEEDS	21		21		7.0	

10293500 EAST WALKER RIVER ABOVE STROSNIDER DITCH NEAR MASON, NV

LOCATION.--Lat 38°48'45", long 119°02'50", in NW $^1/_4$ SW $^1/_4$ sec.14, T.11 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on right bank, 0.9 mi upstream from head of Strosnider ditch, 12 mi southeast of Mason, and 13.5 mi southeast of Yerington.

DRAINAGE AREA.--1,100 mi^2, approximately.

PERIOD OF RECORD.--January 1947 to current year (irrigation season only, l979 to 1994).

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft above NGVD of 1929. Prior to October 24, 1957, near present site at datum 0.56 ft higher. October 24, 1957, to April 3, 1974, at site 400 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500). See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft^3/s, January 4, 1997, gage height, 9.61 ft; minimum daily, 2.3 ft^3/s, March 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 198 ft^3/s, June 3, gage height, 3.83 ft; minimum daily, 24 ft^3/s, September 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	33	31	31	e30	27	47	52	112	159	44	35
2	43	31	32	31	e30	25	48	53	134	149	51	32
3	45	30	32	32	e30	25	47	52	189	135	56	30
4	54	30	32	32	e30	27	55	48	181	137	51	30
5	53	29	29	30	e31	28	62	44	161	132	47	33
6	52	28	30	29	e33	42	63	45	144	130	46	55
7	48	28	31	30	39	57	58	47	140	136	43	72
8	48	27	29	31	35	58	50	54	155	115	40	78
9	48	27	28	31	33	56	43	55	170	106	39	69
10	51	27	29	31	32	49	40	56	172	87	39	63
11	51	28	30	29	31	45	43	57	171	79	38	57
12	47	27	30	29	32	45	44	51	162	78	41	46
13	41	27	30	29	32	48	40	52	153	100	44	40
14	37	27	30	29	32	56	38	50	148	111	49	38
15	34	26	32	29	31	49	42	42	151	105	48	36
16	31	26	28	30	31	47	43	37	163	99	59	32
17	29	26	28	30	30	46	40	36	164	96	64	33
18	27	27	e29	e29	31	45	42	36	156	96	62	33
19	30	27	e29	e29	30	45	50	32	139	95	63	33
20	39	26	e29	e29	30	49	60	56	135	81	74	33
21	47	26	e29	e28	29	53	61	79	128	69	72	31
22	51	26	29	e28	28	51	56	104	132	62	73	28
23	54	27	31	e28	28	51	54	106	126	57	56	26
24	51	30	31	e29	28	52	59	99	121	57	43	25
25	50	36	30	e33	28	52	55	104	116	68	37	24
26	44	35	28	e30	28	51	48	101	115	62	34	31
27	42	31	33	e29	27	50	42	101	129	52	34	51
28	43	32	31	e29	27	49	37	100	141	47	33	65
29	43	33	31	e29	---	49	37	98	155	43	35	65
30	43	32	31	e30	---	47	40	94	160	44	39	62
31	39	---	31	e30	---	45	---	89	---	46	39	---
TOTAL	1359	865	933	923	856	1419	1444	2030	4423	2833	1493	1286
MEAN	43.8	28.8	30.1	29.8	30.6	45.8	48.1	65.5	147	91.4	48.2	42.9
MAX	54	36	33	33	39	58	63	106	189	159	74	78
MIN	27	26	28	28	27	25	37	32	112	43	33	24
AC-FT	2700	1720	1850	1830	1700	2810	2860	4030	8770	5620	2960	2550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	72.7	45.1	54.3	72.0	79.6	93.2	181	260	319	284	221	156
MAX	173	173	178	813	383	363	755	905	1420	885	708	446
(WY)	1957	1999	1951	1997	1997	1969	1969	1969	1986	1995	1983	1983
MIN	22.0	18.3	15.4	13.9	15.9	8.78	15.5	30.5	58.1	32.7	23.1	13.3
(WY)	1978	1978	1962	1962	1950	1948	1961	1991	1990	1992	1992	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1948 - 2002	
ANNUAL TOTAL	26890		19864			
ANNUAL MEAN	73.7		54.4		153	
HIGHEST ANNUAL MEAN					401	1969
LOWEST ANNUAL MEAN					38.7	1961
HIGHEST DAILY MEAN	208	May 14	189	Jun 3	2580	Jun 4 1986
LOWEST DAILY MEAN	26	Nov 15	24	Sep 25	2.3	Mar 12 1977
ANNUAL SEVEN-DAY MINIMUM	26	Nov 15	26	Nov 15	3.6	Mar 20 1948
MAXIMUM PEAK FLOW			198	Jun 3	2610	Jan 4 1997
MAXIMUM PEAK STAGE			3.83	Jun 3	9.61	Jan 4 1997
ANNUAL RUNOFF (AC-FT)	53340		39400		110900	
10 PERCENT EXCEEDS	142		115		344	
50 PERCENT EXCEEDS	57		43		100	
90 PERCENT EXCEEDS	30		28		25	

e Estimated

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°21'39", long 119°26'38", in NW $^1/_4$ NW $^1/_4$ sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank, 0.8 mi North of Sonora Junction, 1.5 mi upstream from mouth, and 14 mi northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi^2.

PERIOD OF RECORD.--April to August 1910, October 1944 to September 1986, October 1995 to current year. Prior to October 1958, published as East Fork Walker River near Bridgeport.

REVISED RECORDS.--WDR 82-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,790 ft above NGVD of 1929, from topographic map. April to August 1910, nonrecording gage at site 1 mi upstream at different datum. Prior to January 2, 1997 at same site, at datum 1.0 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversions above station. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft^3/s, January 2, 1997, gage height, 5.70 ft; minimum daily, 2.6 ft^3/s, August 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	2345	*270	*2.60	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	12	15	17	e15	17	30	40	208	59	19	13
2	7.6	12	16	18	e15	18	34	40	168	58	19	13
3	7.7	11	e16	17	e15	19	38	42	178	55	18	12
4	7.6	11	e16	e17	e14	18	43	46	161	51	17	13
5	7.9	11	e16	e17	e14	16	43	52	169	48	16	14
6	7.8	11	e16	17	e14	17	41	58	152	46	16	16
7	7.6	11	e16	18	e13	13	40	59	152	44	16	14
8	7.6	12	e16	17	13	19	42	60	139	42	15	13
9	7.4	13	e16	16	e13	20	43	61	127	39	15	12
10	7.5	13	e16	15	e13	18	43	62	119	38	14	11
11	7.6	14	16	18	e14	19	48	61	112	36	14	11
12	7.6	13	16	16	14	21	52	64	113	35	13	9.8
13	7.6	13	15	17	15	18	54	71	109	35	12	8.5
14	7.7	13	e15	21	16	17	66	76	103	34	12	8.5
15	7.7	13	e15	21	16	20	76	95	97	33	12	8.2
16	7.6	13	e16	20	17	20	62	105	94	31	12	8.4
17	7.5	13	e16	e20	15	19	56	122	92	31	12	8.5
18	7.6	12	e16	e20	16	19	50	134	97	32	12	8.6
19	7.8	13	e17	e19	17	19	49	137	100	31	12	8.7
20	7.7	12	17	e19	21	16	48	125	96	29	12	8.7
21	7.7	15	e17	e19	20	17	46	103	92	28	12	9.1
22	7.8	24	e16	e18	20	17	42	87	82	26	12	9.5
23	7.7	14	16	e18	20	17	46	80	77	24	12	9.3
24	7.8	37	e16	e18	18	18	48	81	73	23	12	9.1
25	7.9	20	e16	e17	18	18	47	88	72	23	12	9.0
26	8.0	e19	17	e17	18	18	50	104	72	22	12	9.1
27	7.9	e18	16	17	18	18	46	106	70	20	13	9.2
28	8.2	e18	16	e17	18	19	45	113	69	20	14	9.9
29	8.0	18	17	e16	---	22	52	126	65	19	14	10
30	16	e16	16	e16	---	25	45	156	62	19	14	9.9
31	14	---	18	e16	---	28	---	186	---	18	14	---
TOTAL	253.7	445	499	549	450	580	1425	2740	3320	1049	429	314.0
MEAN	8.184	14.83	16.10	17.71	16.07	18.71	47.50	88.39	110.7	33.84	13.84	10.47
MAX	16	37	18	21	21	28	76	186	208	59	19	16
MIN	7.4	11	15	15	13	13	30	40	62	18	12	8.2
AC-FT	503	883	990	1090	893	1150	2830	5430	6590	2080	851	623

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

MEAN	20.22	21.51	21.84	22.49	22.58	27.35	51.01	126.3	173.2	102.1	38.69	23.04
MAX	47.7	65.3	98.4	101	58.9	85.7	97.0	323	388	297	137	55.5
(WY)	1983	1951	1951	1997	1986	1986	1986	1969	1983	1967	1983	1983
MIN	6.79	9.84	9.10	9.26	11.0	10.8	20.9	16.5	36.6	9.48	5.41	4.95
(WY)	1978	1949	1949	1949	1977	1977	1976	1977	1976	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1945 - 2002	
ANNUAL TOTAL	11500.7		12053.7			
ANNUAL MEAN	31.51		33.02		54.29	
HIGHEST ANNUAL MEAN					113	1983
LOWEST ANNUAL MEAN					13.9	1977
HIGHEST DAILY MEAN	200	May 16	208	Jun 1	730	May 16 1996
LOWEST DAILY MEAN	7.3	Sep 27	7.4	Oct 9	2.6	Aug 16 1977
ANNUAL SEVEN-DAY MINIMUM	7.5	Sep 27	7.6	Oct 7	3.0	Aug 11 1977
MAXIMUM PEAK FLOW			270	May 31	2540	Jan 2 1997
MAXIMUM PEAK STAGE			2.60	May 31	5.70	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	22810		23910		39330	
10 PERCENT EXCEEDS	80		84		143	
50 PERCENT EXCEEDS	16		17		25	
90 PERCENT EXCEEDS	8.6		8.7		13	

e Estimated

WALKER LAKE BASIN

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CA

LOCATION.--Lat 38°22'47", long 119°26'57", in NE $^1/_4$ SE $^1/_4$ sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank, 10 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

DRAINAGE AREA.--181 mi^2.

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork."

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft above NGVD of 1929. Prior to October 1, 1939, at site, 125 ft downstream at datum 1.00 ft higher. October 1, 1939, to September 30, 1969, at present site and datum. October 1, 1969, to July 10, 1987, at site 100 ft downstream at same datum. July 10, 1987 to March 5, 1997, at site upstream 100 ft at same datum. March 6, 1997 at site 150 ft downstream at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poore Lake, capacity, 1,200 acre-ft, 7 mi upstream. See schematic diagram of Walker Lake Basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft^3/s, December 11, 1937, on basis of slope-area measurement of peak flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s, January 2, 1997, gage height, 10.11 ft; minimum daily, 9.7 ft^3/s, September 11, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 1,120 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 19	0245	*1760	4.66	June 6	0100	1570	4.44
June 1	0345	*1760	*4.67				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	44	51	67	64	85	210	277	1500	387	67	40
2	19	39	50	70	60	81	251	270	1220	368	65	39
3	19	36	52	73	60	83	305	297	987	342	68	35
4	18	34	46	69	60	83	372	374	1020	303	67	37
5	19	33	60	84	60	82	428	487	1150	274	65	39
6	20	33	65	72	58	87	401	590	1220	259	63	43
7	19	32	60	79	58	78	387	668	1190	249	60	54
8	19	33	60	77	52	77	426	662	1080	235	57	52
9	19	33	63	73	58	94	480	645	869	212	55	44
10	20	33	63	69	62	89	460	597	680	205	52	39
11	20	39	58	70	56	86	503	511	647	196	51	38
12	20	37	55	69	54	96	589	527	704	194	48	37
13	19	38	53	67	56	88	633	632	783	203	45	34
14	19	39	e48	e61	53	83	779	800	837	206	47	33
15	19	39	e45	e57	54	82	910	897	756	184	50	31
16	20	39	e49	e52	56	86	583	1010	710	168	45	30
17	21	38	e52	e58	56	82	453	1130	692	155	43	30
18	21	35	56	65	51	82	374	1290	750	150	42	31
19	21	34	59	67	60	78	336	1280	835	138	40	31
20	21	36	59	65	74	79	304	996	774	125	41	30
21	21	40	53	66	73	84	283	720	698	124	41	30
22	21	77	58	57	78	88	279	554	603	115	40	30
23	21	49	56	54	83	94	311	480	539	106	38	29
24	21	104	53	66	76	93	359	485	518	98	40	27
25	21	65	59	62	76	88	401	596	489	94	41	26
26	22	62	62	58	79	94	435	704	519	89	37	25
27	21	56	57	57	84	97	393	849	497	83	43	25
28	22	59	55	58	84	105	344	913	443	78	46	25
29	22	52	62	56	---	117	331	1050	416	75	42	26
30	39	55	64	61	---	146	305	1330	400	73	42	25
31	53	---	72	64	---	177	---	1410	---	68	39	---
TOTAL	677	1343	1755	2023	1795	2864	12625	23031	23526	5556	1520	1015
MEAN	21.84	44.77	56.61	65.26	64.11	92.39	420.8	742.9	784.2	179.2	49.03	33.83
MAX	53	104	72	84	84	177	910	1410	1500	387	68	54
MIN	18	32	45	52	51	77	210	270	400	68	37	25
MED	20	39	57	66	60	86	390	662	730	168	45	31
AC-FT	1340	2660	3480	4010	3560	5680	25040	45680	46660	11020	3010	2010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	54.96	67.49	71.28	78.33	75.13	110.4	302.9	781.8	954.1	492.1	151.1	73.79
MAX	219	539	448	854	246	369	609	1655	2066	1864	663	246
(WY)	1983	1951	1951	1997	1963	1986	1997	1969	1983	1995	1983	1983
MIN	16.6	22.2	20.0	18.1	26.0	32.1	108	139	188	41.1	18.5	12.3
(WY)	1978	1978	1991	1977	1991	1977	1975	1977	1976	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1938 - 2002	
ANNUAL TOTAL	69214		77730			
ANNUAL MEAN	189.6		213.0		265.5	
HIGHEST ANNUAL MEAN					537	1983
LOWEST ANNUAL MEAN					65.3	1977
HIGHEST DAILY MEAN	1660	May 16	1500	Jun 1	8660	Jan 2 1997
LOWEST DAILY MEAN	15	Sep 22	18	Oct 4	9.7	Sep 11 1977
ANNUAL SEVEN-DAY MINIMUM	16	Sep 18	19	Oct 2	10	Sep 5 1977
MAXIMUM PEAK FLOW			1760	Jun 1	12300	Jan 2 1997
MAXIMUM PEAK STAGE			4.67	Jun 1	10.11	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	137300		154200		192300	
10 PERCENT EXCEEDS	622		673		804	
50 PERCENT EXCEEDS	50		66		87	
90 PERCENT EXCEEDS	21		28		34	

e Estimated

WALKER LAKE BASIN

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'48", long 119°26'56", in NE $^1/_4$ NE $^1/_4$ sec.28, T.8 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank, 250 ft downstream from Rock Creek, and 5 mi southeast of Coleville.

DRAINAGE AREA.--250 mi^2.

PERIOD OF RECORD.--October 1902 to July 1908 (published as West Fork of Walker River near Coleville, 1903, 1905-08 and as Walker River (West Fork) near Coleville, 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,520 ft above NGVD of 1929, from topographic map. See WSP 1927 for history of changes prior to July 25, 1964. July 26, 1964 to January 2, 1997(gage destroyed by flood) at several sites and datums 2,000 ft downstream from present location, when re-established October 28, 1997, at new datum.

REMARKS.--No estimated daily discharges. Records fair. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poore Lake, capacity, 1,200 acre-ft, 17 mi upstream. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s, January 2, 1997, gage height, 10.23 ft; minimum daily, 14 ft^3/s, several days July-September 1924 and September 12, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,120 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 19	0230	1300	7.05	June 1	0645	*1470	*2.29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	44	56	69	53	81	205	326	1340	420	81	51
2	27	40	62	71	52	76	265	322	1130	407	81	49
3	27	38	48	76	50	77	325	337	905	387	79	46
4	26	37	49	63	50	80	387	393	906	354	77	45
5	26	36	56	71	50	81	435	482	994	327	75	48
6	27	35	64	71	51	84	413	563	1110	310	73	49
7	27	35	60	78	53	82	399	636	1060	297	72	58
8	27	35	57	77	50	70	423	637	972	283	69	55
9	27	36	59	74	48	83	468	619	816	257	67	53
10	28	36	57	70	53	83	455	588	650	243	64	50
11	28	38	57	66	56	84	486	521	626	234	62	48
12	28	38	56	69	56	92	553	524	652	227	60	47
13	28	38	56	64	58	88	593	593	723	262	58	44
14	28	39	52	65	58	83	686	724	770	279	57	44
15	28	39	45	61	56	74	826	794	702	230	57	43
16	27	39	54	55	58	80	553	832	668	199	55	42
17	27	39	62	54	61	76	457	921	657	185	54	44
18	27	37	52	56	56	78	400	1060	697	183	53	44
19	27	37	57	58	60	76	368	1070	748	166	51	44
20	27	38	57	59	70	80	340	851	695	148	51	44
21	27	38	51	64	73	82	325	655	669	144	51	43
22	27	66	56	55	75	86	326	536	589	133	50	43
23	27	53	56	48	81	92	345	479	539	120	48	41
24	27	93	50	57	76	93	387	475	531	111	47	40
25	28	73	52	62	75	88	417	544	507	106	46	39
26	28	57	61	55	77	91	451	647	528	101	45	38
27	28	58	59	56	82	95	423	764	522	95	47	38
28	28	59	59	50	81	99	386	794	478	89	46	38
29	28	59	63	48	---	107	373	910	450	85	46	39
30	32	53	65	54	---	126	351	1100	434	83	45	38
31	50	---	72	58	---	156	---	1270	---	79	47	---
TOTAL	874	1363	1760	1934	1719	2723	12821	20967	22068	6544	1814	1345
MEAN	28.19	45.43	56.77	62.39	61.39	87.84	427.4	676.4	735.6	211.1	58.52	44.83
MAX	50	93	72	78	82	156	826	1270	1340	420	81	58
MIN	26	35	45	48	48	70	205	322	434	79	45	38
AC-FT	1730	2700	3490	3840	3410	5400	25430	41590	43770	12980	3600	2670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

MEAN	69.86	70.60	67.64	78.87	81.55	126.9	307.9	791.6	990.4	525.8	166.0	83.37
MAX	299	214	270	905	280	403	636	1756	2055	2492	721	269
(WY)	1905	1974	1965	1997	1963	1986	1910	1969	1983	1907	1995	1907
MIN	21.5	25.4	28.7	26.9	32.0	42.1	118	149	106	26.9	17.4	16.1
(WY)	1978	1930	1960	1930	1929	1933	1975	1977	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	67437		75932			
ANNUAL MEAN	184.8		208.0		279.7	
HIGHEST ANNUAL MEAN					669	1907
LOWEST ANNUAL MEAN					74.5	1977
HIGHEST DAILY MEAN	1510	May 16	1340	Jun 1	9000	Jan 2 1997
LOWEST DAILY MEAN	25	Sep 21	26	Oct 4	14	Jul 24 1924
ANNUAL SEVEN-DAY MINIMUM	26	Sep 18	27	Oct 1	14	Aug 28 1924
MAXIMUM PEAK FLOW			1470	Jun 1	12500	Jan 2 1997
MAXIMUM PEAK STAGE			7.29	Jun 1	10.23	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	133800		150600		202600	
10 PERCENT EXCEEDS	586		641		839	
50 PERCENT EXCEEDS	55		69		95	
90 PERCENT EXCEEDS	28		37		38	

WALKER LAKE BASIN

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050301, at outlet works of Topaz Lake on West Walker River, and 5.5 mi north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is above NGVD of 1929. Prior to October 1, 1978, at datum 4.62 ft higher.

REMARKS.--Topaz Lake, formerly known as Alkali Lake and Topaz Reservoir, was formed by the diversion of water from West Walker River through a feeder canal and the construction of an outlet tunnel through a low saddle in rim of lake. Storage began about December 1921. Usable capacity, 59,440 acre-ft, between elevations 4,967.68 ft (lowest practical elevation for diversion through tunnel) and 5,000.38 ft (3 ft below top of levee). Usable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft, July 3, 1980, July 10, 1995, elevation 5,000.92 ft, present datum; no usable contents at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum contents 34,690 acre-ft, June 21, elevation, 4993.20 ft; minimum contents, 7,290 acre-ft, September 30, elevation 4,976.98 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

4,968	490	4,980	19,760	4,995	47,540
4,970	3,580	4,985	28,310	5,000	58,570
4,975	11,520	4,990	37,360	5,001	60,870

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10760	9280	10980	14610	18270	21190	22300	21300	28410	31690	21690	12470
2	10730	9330	11370	14820	18350	21250	22340	21070	29410	31240	21340	12230
3	10680	9340	11420	14990	18430	21320	22370	20870	30010	30780	21000	11970
4	10610	9380	11530	15130	18520	21370	22530	20730	30500	30310	20560	11660
5	10560	9390	11640	15250	18600	21490	22780	20760	31140	29810	20170	11340
6	10520	9410	11760	15380	18680	21540	22970	20970	31920	29340	19770	11000
7	10500	9420	11870	15530	18800	21640	23120	21360	32620	28940	19470	10710
8	10390	9420	11990	15710	18900	21630	23270	21830	33220	28550	19220	10470
9	10370	9460	12050	15860	18950	21690	23430	22190	33580	28240	18970	10230
10	10310	9470	12200	16010	19050	21630	23560	22440	33620	27940	18730	10030
11	10260	9490	12290	16170	19150	21630	23670	22590	33540	27630	18430	9840
12	10210	9470	12410	16310	19250	21630	23800	22680	33540	27380	18080	9650
13	10160	9540	12370	16470	19350	21660	23960	22810	33690	27190	17750	9490
14	10100	9550	12630	16540	19440	21730	24090	23090	33910	27000	17430	9360
15	10070	9580	12700	16650	19550	21780	24590	23440	34070	26800	17100	9180
16	9950	9620	12720	16770	19650	21790	24610	23580	34140	26570	16850	9060
17	10020	9670	12890	16870	19790	21830	24440	23770	34210	e26360	16600	8930
18	9910	9680	13010	16980	19890	21860	24230	24180	34310	e26190	16360	8750
19	9890	9740	13110	17070	19990	21910	23970	24680	34540	26020	16090	8610
20	9830	9540	13240	17170	20110	21960	23680	25040	34620	25790	15840	8470
21	9760	9790	13320	17230	20210	22000	23340	25190	34670	25570	15600	8340
22	9710	9890	13400	17350	20360	22050	23020	25090	34600	25350	15320	8260
23	9670	9940	13550	17450	20460	22170	22680	24860	34380	25120	15050	8160
24	9650	10210	13640	17520	20610	22220	22420	24620	34160	24810	14820	8020
25	9600	10400	13760	17570	20730	22270	22270	24470	33920	24440	14510	7890
26	9570	10520	13860	17750	20870	22300	22200	24450	33710	24030	14220	7750
27	9540	10580	13950	17800	20980	22320	22020	24660	33430	23580	13900	7700
28	9510	10730	14100	17910	21080	22320	21880	24900	33070	23150	13550	7510
29	9470	10810	14250	18030	---	22300	21730	25310	32640	22750	13220	7430
30	9300	10840	14450	18100	---	22290	21540	26090	32160	22370	12930	7310
31	9330	---	14510	18170	---	22290	---	27210	---	22070	12700	---
MAX	10760	10840	14510	18170	21080	22320	24610	27210	34670	31690	21690	12470
MIN	9300	9280	10980	14610	18270	21190	21540	20730	28410	22070	12700	7310
#	4973.64	4974.58	4976.84	4979.05	4980.78	4981.50	4981.05	4984.36	4987.18	4981.37	4975.73	4972.37
##	-1510	+1510	+3670	+3660	+2910	+1210	-750	+5670	+4950	-10090	-9370	-5390

CAL YR 2001 MAX 40710 MIN 9280 ## +3430
WTR YR 2002 MAX 34670 MIN 7310 ## -3530

\# Elevation, in feet above sea level, at end of month.
Change in contents, in acre-feet.

10297500 WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NV

LOCATION.--Lat 38°43'40", long 119°25'40", in NE $^1/_4$ SE $^1/_4$ sec.17, T.10 N., R.23 E., Douglas County, Hydrologic Unit 16050302, on left bank, 20 ft upstream from Hoye Bridge, 2 mi upstream from head of Saroni Canal, and 4 mi southwest of Wellington.

DRAINAGE AREA.--497 mi^2.

PERIOD OF RECORD.--May to August 1910 (published as West Walker River near Wellington), July 1920 to September 1923, March 1924 to August 1925, October 1925 to September 1932, October 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,980 ft above NGVD of 1929, from topographic map. May to August 1910, nonrecording gage at same site at different datum. July 1, 1920, to September 30, 1923, water-stage recorder at site 3 mi downstream, 1 mi downstream from Saroni Canal, at different datum, and supplemental nonrecording gage at Saroni Canal 1 mi downstream from head. March 1, 1924, to September 30, 1932, water-stage recorder at site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by off-channel storage in Topaz Lake (station 10297000), since January 30, 1922. Diversions for irrigation of about 10,500 acres above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s, January 3, 1997, gage height, 13.68 ft; minimum daily, 3.6 ft^3/s, February 5, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 701 ft^3/s, May 19, gage height, 4.04 ft; minimum daily, 17 ft^3/s, January 12-14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	43	24	29	e24	43	77	253	380	472	191	137
2	50	36	28	28	e25	40	81	249	422	437	177	134
3	53	30	30	24	e25	48	92	223	387	414	178	136
4	51	30	26	23	25	48	93	215	432	413	199	146
5	50	31	24	22	25	49	95	186	402	394	207	153
6	47	31	26	23	24	61	115	199	408	350	195	155
7	44	30	27	22	24	89	140	191	474	289	180	157
8	44	30	26	23	25	87	138	170	459	278	153	157
9	42	30	26	23	25	86	156	189	457	225	152	152
10	56	31	28	21	24	82	164	229	435	216	150	135
11	52	31	27	18	24	82	199	255	430	206	166	131
12	34	31	26	17	24	82	272	259	414	170	194	120
13	41	32	26	17	25	80	317	265	381	169	192	114
14	40	31	27	17	25	51	364	298	388	157	176	103
15	42	32	26	22	25	42	395	350	364	153	174	98
16	34	32	24	22	24	43	403	494	387	152	150	89
17	35	32	24	22	26	43	375	584	380	153	131	89
18	37	33	26	e22	25	42	369	606	381	175	133	99
19	43	33	25	e21	26	39	346	657	390	154	134	98
20	45	32	28	e21	24	47	332	547	455	147	140	98
21	45	31	27	21	24	43	320	364	437	136	140	90
22	45	27	26	e22	25	38	315	372	436	134	152	78
23	37	29	27	e22	24	38	313	391	427	128	148	75
24	35	35	26	e22	25	43	297	355	420	156	137	77
25	35	38	25	23	26	42	257	343	420	179	161	91
26	35	35	25	e23	27	45	243	350	430	213	160	89
27	35	33	28	e23	28	50	272	371	449	227	173	70
28	33	29	28	e23	46	57	290	418	469	223	182	76
29	49	25	29	e23	---	55	278	409	466	210	187	77
30	76	25	29	e23	---	61	234	383	476	190	170	76
31	61	---	30	e24	---	74	---	385	---	189	141	---
TOTAL	1389	948	824	686	719	1730	7342	10560	12656	7109	5123	3300
MEAN	44.81	31.60	26.58	22.13	25.68	55.81	244.7	340.6	421.9	229.3	165.3	110.0
MAX	76	43	30	29	46	89	403	657	476	472	207	157
MIN	33	25	24	17	24	38	77	170	364	128	131	70
AC-FT	2760	1880	1630	1360	1430	3430	14560	20950	25100	14100	10160	6550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

MEAN	80.61	44.66	44.66	57.07	54.69	82.83	270.7	617.0	706.2	501.7	287.9	160.2
MAX	286	332	399	1032	500	477	730	1303	1949	1611	721	390
(WY)	1984	1983	1983	1997	1997	1983	1982	1969	1983	1995	1983	1983
MIN	12.6	13.3	9.20	5.56	7.66	8.03	59.7	115	150	97.1	26.6	19.5
(WY)	1978	1982	1985	1985	1985	1962	1929	1977	1924	1992	1977	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910 - 2002	
ANNUAL TOTAL	48189		52386			
ANNUAL MEAN	132.0		143.5		247.4	
HIGHEST ANNUAL MEAN					620	1983
LOWEST ANNUAL MEAN					61.0	1977
HIGHEST DAILY MEAN	602	May 12	657	May 19	4000	Jan 3 1997
LOWEST DAILY MEAN	11	Jan 17	17	Jan 12	3.6	Feb 5 1985
ANNUAL SEVEN-DAY MINIMUM	12	Jan 1	19	Jan 10	3.8	Feb 9 1985
MAXIMUM PEAK FLOW			701	May 19	11500	Jan 3 1997
MAXIMUM PEAK STAGE			4.04	May 19	13.68	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	95580		103900		179300	
10 PERCENT EXCEEDS	375		390		644	
50 PERCENT EXCEEDS	77		78		108	
90 PERCENT EXCEEDS	22		24		20	

e Estimated

10300000 WEST WALKER RIVER NEAR HUDSON, NV

LOCATION.--Lat 38°48'35", long 119°13'35", in SE $^1/_4$ SW $^1/_4$ sec.18, T.11 N., R.25 E., Lyon County, Hydrologic Unit 16050302, on left bank, 0.5 mi upstream from Wilson Canyon, and 3 mi southeast of Hudson.

DRAINAGE AREA.--964 mi^2.

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to September 1978, April 1979 to September 1994, (irrigation season only) October 1994 to current year. August 1914 to April 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above NGVD of 1929, from topographic map. Prior to May 1921, nonrecording gage at site 2.5 mi upstream at different datum. May 1921 to March 1925, water-stage recorder at approximately same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by off-channel storage in Topaz Lake (station 10297000) since January 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft^3/s, January 3, 1997, gage height, 12.18 ft; minimum daily, 10 ft^3/s, January 23, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 438 ft^3/s, June 7-8, gage height, 2.41 ft; minimum daily, 17 ft^3/s, October 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	29	30	31	e26	57	65	220	263	327	102	69
2	56	44	33	32	e27	52	62	231	291	299	98	66
3	51	40	39	32	e27	56	62	209	288	272	101	64
4	52	36	36	27	e27	59	72	202	318	288	121	78
5	50	35	34	27	e28	60	69	188	338	272	143	90
6	50	35	34	27	e31	63	74	178	345	259	139	e92
7	45	35	35	27	31	86	98	161	413	221	133	e94
8	48	35	31	27	32	97	105	149	435	195	117	e92
9	48	31	30	28	32	97	114	148	425	165	111	e91
10	51	30	29	24	33	94	126	167	402	149	110	e91
11	52	31	29	22	32	92	143	179	386	140	114	91
12	54	32	29	19	38	93	188	180	355	124	120	86
13	38	35	29	e19	38	92	215	180	326	106	102	90
14	44	35	32	18	39	82	243	185	325	86	81	85
15	45	35	e31	18	40	65	268	210	292	69	68	85
16	39	35	e30	20	39	61	291	269	293	64	66	75
17	33	34	30	20	41	60	288	353	290	70	63	69
18	35	30	29	e22	41	60	281	369	285	97	72	75
19	28	29	27	e22	40	57	265	383	281	100	76	81
20	37	32	26	e22	40	57	256	394	317	90	70	e79
21	35	33	27	e22	40	55	247	264	318	92	71	e76
22	34	35	26	23	40	49	247	253	318	84	81	e73
23	34	32	27	e23	40	48	246	258	315	78	83	e72
24	29	39	27	e23	40	50	236	242	306	84	73	e70
25	31	43	26	e24	41	53	222	234	291	96	93	e72
26	33	43	25	e24	42	54	209	238	282	120	107	e70
27	20	38	25	e24	42	53	231	246	296	129	116	69
28	17	37	29	e24	46	52	249	265	315	123	119	66
29	20	34	31	e24	---	56	258	274	315	117	112	60
30	21	32	31	e24	---	55	219	252	327	108	99	62
31	30	---	32	e25	---	61	---	259	---	99	78	---
TOTAL	1215	1044	929	744	1013	2026	5649	7340	9751	4523	3039	2333
MEAN	39.19	34.80	29.97	24.00	36.18	65.35	188.3	236.8	325.0	145.9	98.03	77.77
MAX	56	44	39	32	46	97	291	394	435	327	143	94
MIN	17	29	25	18	26	48	62	148	263	64	63	60
AC-FT	2410	2070	1840	1480	2010	4020	11200	14560	19340	8970	6030	4630

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

MEAN	71.73	64.63	71.18	81.51	89.81	99.31	213.8	442.4	590.7	356.1	171.4	107.0
MAX	203	178	493	1064	527	450	528	1231	1718	1490	568	290
(WY)	1917	1951	1951	1997	1997	1969	1982	1997	1983	1995	1983	1983
MIN	21.7	20.8	20.7	22.0	26.1	30.3	56.9	92.1	86.4	55.8	14.6	14.7
(WY)	1978	1962	1962	1962	1961	1961	1922	1977	1924	1924	1920	1920

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915 - 2002	
ANNUAL TOTAL	36296		39606			
ANNUAL MEAN	99.44		108.5		198.9	
HIGHEST ANNUAL MEAN					435	1997
LOWEST ANNUAL MEAN					56.4	1977
HIGHEST DAILY MEAN	427	Jun 3	435	Jun 8	4230	Jan 3 1997
LOWEST DAILY MEAN	13	Jan 4	17	Oct 28	10	Jan 23 1962
ANNUAL SEVEN-DAY MINIMUM	15	Jan 1	19	Jan 11	13	Aug 7 1920
MAXIMUM PEAK FLOW			438	Jun 7	11400	Jan 3 1997
MAXIMUM PEAK STAGE			2.41	Jun 7	12.18	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	71990		78560		144100	
10 PERCENT EXCEEDS	293		283		442	
50 PERCENT EXCEEDS	52		66		101	
90 PERCENT EXCEEDS	28		27		34	

e Estimated

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV

LOCATION.--Lat 39°09'10", long 119°05'50", in SE $^{1}/_{4}$ NW $^{1}_{4}$ sec.20, T.15 N., R.26 E., Lyon County, Hydrologic Unit 16050303, on left bank, 600 ft upstream from timber bridge at Julian Ranch, 1.8 mi downstream from Southern Pacific Railroad bridge, 4.6 mi east of Wabuska, and 16 mi upstream from Weber Dam.

DRAINAGE AREA.--2,600 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1902 to December 1904, January 1905 to July 1908 (fragmentary), January 1920 to September 1924, March 1925 to September 1935, January 1939 to current year. Monthly discharge only for some periods published in WSP 1734.

REVISED RECORDS.--WSP 1314: 1923 (M). WSP 1634: 1904.

GAGE.--Water-stage recorder. Elevation of gage is 4,280 ft above NGVD of 1929, from topographic map. July 22, 1902, to July 31, 1908, nonrecording gage at site 2.5 mi upstream at different datum. January 15, 1920, to September 30, 1929, nonrecording gage or water-stage recorder at several sites near present site at various datums; October 1, 1929, to September 30, 1935, water-stage recorder at site 1.5 mi downstream at different datum. January 1939 to September 1958, non-recording gage on bridge 300 ft downstream at datum 1.19 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. No flow at times in 1924, 1925, and 1931. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft^3/s, July 10, 11, 1906, gage height, 5.9 ft, site and datum then in use; no flow at times, 1924, 1925, and 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 137 ft^3/s, May 21, gage height, 4.61 ft; maximum gage height, 5.17 ft, February 4, backwater from ice; minimum daily, 5.4 ft^3/s, April 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	22	18	27	32	37	5.7	41	35	41	19	30
2	33	19	17	25	e33	14	6.5	53	26	44	24	25
3	33	25	20	27	e36	10	6.2	61	41	37	30	22
4	32	27	21	27	e38	9.0	5.8	43	50	25	49	17
5	32	28	20	24	42	8.0	5.4	35	39	29	59	19
6	36	26	e20	23	42	7.6	6.2	34	22	26	49	28
7	42	23	e20	22	45	8.6	5.7	76	16	48	51	37
8	47	22	e19	24	45	9.2	8.7	68	24	43	38	58
9	53	22	e18	24	44	10	8.3	56	30	76	23	77
10	61	22	e18	23	42	9.6	8.7	56	41	57	26	93
11	65	23	e17	21	40	9.8	6.6	74	40	77	23	90
12	56	24	17	20	32	11	6.5	32	39	68	21	71
13	55	24	17	18	33	8.9	11	27	34	43	18	42
14	49	25	e17	19	34	8.6	35	17	23	43	17	35
15	44	24	17	20	34	9.7	72	16	31	46	21	28
16	40	15	e16	20	35	33	90	26	44	52	21	27
17	30	12	e16	18	34	33	68	47	43	41	16	33
18	24	12	e17	18	35	31	56	62	38	41	22	42
19	20	12	e17	e18	35	26	31	81	38	38	29	40
20	13	13	e18	e17	35	21	22	105	39	61	28	36
21	12	14	e18	16	36	17	19	116	52	51	32	35
22	13	12	e18	20	34	16	14	42	33	50	30	40
23	15	12	e19	e24	33	10	14	33	38	53	29	38
24	27	13	e20	e28	32	8.6	14	36	37	53	31	43
25	26	16	e20	e30	32	8.0	13	30	29	48	37	42
26	25	18	e21	33	34	7.5	16	32	24	34	40	40
27	25	22	22	38	48	7.2	37	34	15	41	29	27
28	20	19	22	34	39	6.9	57	34	12	37	40	28
29	18	19	26	31	---	6.5	73	38	14	36	45	51
30	20	19	26	26	---	6.2	69	30	25	26	45	59
31	20	---	26	31	---	5.9	---	33	---	20	36	---
TOTAL	1033	584	598	746	1034	414.8	791.3	1468	972	1385	978	1253
MEAN	33.3	19.5	19.3	24.1	36.9	13.4	26.4	47.4	32.4	44.7	31.5	41.8
MAX	65	28	26	38	48	37	90	116	52	77	59	93
MIN	12	12	16	16	32	5.9	5.4	16	12	20	16	17
AC-FT	2050	1160	1190	1480	2050	823	1570	2910	1930	2750	1940	2490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2002, BY WATER YEAR (WY)

MEAN	76.3	90.9	111	132	141	152	155	257	481	256	91.8	68.6
MAX	585	704	854	1669	905	949	1344	1262	2255	1604	922	357
(WY)	1984	1983	1984	1997	1997	1983	1952	1969	1983	1995	1983	1983
MIN	0.000	1.53	3.42	7.17	14.0	10.6	10.0	6.00	5.00	0.23	0.000	0.000
(WY)	1932	1932	1993	1978	1930	1931	1924	1924	1924	1931	1924	1924

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1902 - 2002	
ANNUAL TOTAL	15246.2		11257.1			
ANNUAL MEAN	41.8		30.8		169	
HIGHEST ANNUAL MEAN					832	1983
LOWEST ANNUAL MEAN					12.9	1931
HIGHEST DAILY MEAN	168	May 13	116	May 21	2740	Jun 6 1986
LOWEST DAILY MEAN	8.6	Sep 19	5.4	Apr 5	0.00	Aug 1 1924
ANNUAL SEVEN-DAY MINIMUM	12	Nov 17	5.9	Apr 1	0.00	Aug 1 1924
MAXIMUM PEAK FLOW			137	May 21	3280	Jul 10 1906
MAXIMUM PEAK STAGE			4.61	May 21	10.92	Jan 6 1997
ANNUAL RUNOFF (AC-FT)	30240		22330		122200	
10 PERCENT EXCEEDS	72		53		392	
50 PERCENT EXCEEDS	36		28		70	
90 PERCENT EXCEEDS	18		12		16	

e Estimated

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to June 1996; November 1996 to current year.

PERIOD OF DAILY RECORD.--
CHEMICAL ANALYSES: October 1968 to September 1969.
SPECIFIC CONDUCTANCE: October 1968 to September 1976, once-daily; May 1995 to June 1996, November 1996 to current year, four times per hour.
WATER TEMPERATURE: October 1968 to September 1976, once-daily; May 1995 to June 1996, November 1996 to current year, four times per hour.

INSTRUMENTATION.--Water quality monitor May 1995 to June 1996, November 1996 to current year, four times per hour.

REMARKS.--Inflow from two drainage ditches occasionally enters stream less than a mile above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous either chemically or thermally when ditches discharge to the stream. Doubtless, this was responsible for some of the variation shown by daily specific-conductance and temperature data during water years 1969-76. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Pesticide analyses prior to October 1981 from U.S. Environmental Protection Agency. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 792 microsiemens, December 12, 1972; minimum daily, 116 microsiemens, July 23, 1998.
WATER TEMPERATURE: Maximum daily, 34.5°C, July 24, 1975 and June 27, 2002; minimum daily, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 727 microsiemens, November 18; minimum recorded, 221 microsiemens, May 21.
WATER TEMPERATURE: Maximum recorded, 34.5°C, June 27; minimum recorded, freezing point many days November to March.

SPECIFIC CONDUCTANCE (MICRO2001SIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	388	332	348	493	463	477	482	472	477	466	456	461
2	373	349	359	488	438	467	492	472	479	472	451	466
3	427	359	381	440	424	434	477	464	472	463	457	460
4	381	368	374	434	420	425	495	469	479	465	454	460
5	371	344	361	477	421	449	484	478	481	472	464	469
6	349	340	344	446	428	436	483	473	478	478	469	475
7	345	337	340	440	427	433	485	474	479	484	475	480
8	343	333	339	447	428	435	499	475	484	481	474	478
9	343	332	337	452	433	438	492	475	483	483	474	478
10	348	339	345	455	436	444	490	482	486	483	471	477
11	359	348	352	448	436	441	498	482	490	495	478	488
12	357	338	347	448	434	440	502	494	497	500	486	492
13	344	331	338	444	436	440	510	491	498	512	498	503
14	352	332	341	453	437	443	505	486	492	542	489	506
15	368	346	359	465	437	445	539	505	520	564	476	512
16	379	367	374	485	465	475	572	495	530	531	483	511
17	399	375	387	514	478	492	543	492	519	547	494	523
18	401	382	390	727	497	546	502	459	480	647	494	555
19	430	384	406	551	514	534	509	450	475	626	557	586
20	470	429	454	551	519	536	480	448	464	699	564	631
21	472	451	462	520	496	509	475	459	470	633	478	576
22	464	446	454	513	502	509	474	464	470	572	485	518
23	453	424	441	513	507	509	471	458	464	554	470	515
24	465	408	420	514	488	506	476	464	469	548	497	512
25	425	406	413	502	473	484	506	469	484	507	443	482
26	430	411	419	500	470	482	490	466	474	502	457	478
27	444	419	432	489	466	478	480	475	478	470	460	464
28	459	439	447	488	475	481	482	455	472	478	457	465
29	469	444	455	492	480	487	465	452	456	498	464	481
30	464	455	459	482	473	477	468	458	464	644	481	543
31	478	457	465	---	---	---	469	459	465	610	482	555
MONTH	478	331	392	727	420	472	572	448	482	699	443	503

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	590	469	531	373	338	347	601	568	580	331	293	316
2	561	471	513	415	373	397	575	546	558	323	300	310
3	517	446	483	436	406	422	573	545	557	307	299	302
4	513	425	466	474	424	445	617	557	582	336	305	323
5	479	429	456	486	460	474	591	566	578	339	321	328
6	478	433	455	504	479	490	584	553	571	364	322	340
7	448	433	441	524	494	508	592	559	574	326	309	316
8	444	428	439	539	505	524	596	487	551	337	314	325
9	437	428	433	557	519	539	564	489	533	360	329	340
10	447	432	437	556	419	455	558	519	544	342	331	335
11	449	437	442	455	433	444	564	528	551	352	308	324
12	451	443	447	472	439	453	557	528	543	387	352	368
13	444	428	436	487	453	473	533	431	488	394	354	374
14	430	423	427	486	419	473	431	311	355	421	379	397
15	426	416	420	499	401	464	312	271	295	450	410	427
16	418	410	414	417	350	361	282	258	272	442	328	376
17	412	405	408	369	358	363	281	264	272	328	263	292
18	409	397	403	381	366	372	276	250	263	264	239	251
19	400	391	395	413	373	395	317	267	300	242	231	236
20	393	386	390	442	403	416	352	313	334	250	231	241
21	390	379	385	445	423	435	389	328	357	268	221	238
22	389	379	384	461	422	442	417	354	385	354	268	321
23	389	378	384	497	459	480	404	374	384	363	339	354
24	379	366	373	514	494	504	544	363	423	342	312	326
25	368	358	364	547	511	532	553	416	485	406	327	357
26	364	355	361	559	540	549	457	403	421	340	318	328
27	363	343	350	575	546	560	410	285	343	342	315	326
28	364	337	345	573	558	565	294	270	282	327	306	319
29	---	---	---	578	548	564	276	266	270	309	274	288
30	---	---	---	595	565	578	293	271	280	321	273	296
31	---	---	---	597	568	580	---	---	---	297	269	283
MONTH	590	337	421	597	338	471	617	250	431	450	221	321

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	291	254	274	282	246	260	346	314	323	335	301	318
2	302	256	280	271	233	246	322	300	313	327	313	319
3	265	240	248	264	232	247	312	294	302	371	306	328
4	331	244	281	266	255	260	314	301	306	362	340	350
5	300	256	270	256	238	246	302	277	288	366	320	333
6	310	276	295	334	244	291	280	262	273	343	303	317
7	326	294	308	272	238	248	271	256	263	310	298	304
8	294	233	262	267	238	251	280	265	273	315	280	296
9	253	238	244	283	259	267	306	275	288	280	273	277
10	253	240	245	287	262	273	318	292	306	296	270	280
11	261	241	251	292	282	287	331	304	316	286	272	278
12	278	249	261	292	281	286	328	308	316	290	278	284
13	326	277	298	294	277	286	319	300	311	311	286	298
14	352	289	331	306	292	297	313	299	304	328	303	315
15	357	260	290	309	293	301	326	303	313	345	320	331
16	270	250	259	342	305	316	336	311	322	355	334	341
17	284	247	256	332	312	319	336	313	322	352	323	337
18	290	258	270	329	312	321	327	307	315	348	321	333
19	280	255	270	330	302	319	316	303	308	347	335	341
20	316	274	296	306	292	299	353	302	321	344	333	337
21	298	236	257	318	302	309	322	290	303	340	326	332
22	257	236	246	314	300	307	317	286	298	334	325	329
23	252	241	247	318	306	311	316	296	304	341	326	332
24	257	238	246	325	311	318	297	275	285	348	330	339
25	294	244	262	337	320	328	285	269	278	348	340	343
26	400	289	339	331	316	323	293	277	284	355	339	347
27	333	296	314	318	286	304	290	273	282	359	342	348
28	329	307	318	291	275	284	320	270	282	348	325	337
29	329	293	314	288	275	280	289	266	278	327	317	322
30	316	279	301	308	283	296	267	259	263	325	316	319
31	---	---	---	385	304	324	305	264	281	---	---	---
MONTH	400	233	278	385	232	290	353	256	297	371	270	322

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.5	13.0	18.0	15.5	4.5	9.5	7.5	1.5	4.0	6.0	4.0	4.5
2	25.0	13.0	18.5	14.5	4.0	8.5	7.0	2.5	4.0	7.0	3.5	5.0
3	24.5	12.5	18.0	14.0	3.5	8.0	8.0	0.0	3.0	10.0	3.5	5.5
4	24.5	12.5	17.5	15.0	4.0	9.0	6.0	0.0	2.0	7.0	0.5	3.5
5	23.0	13.0	17.5	15.5	5.0	9.5	3.5	0.5	1.5	5.5	1.5	3.5
6	22.5	12.0	17.0	15.5	5.5	10.0	8.5	0.0	3.5	5.5	2.5	4.0
7	21.5	11.0	16.0	14.0	6.0	9.0	7.5	0.0	3.0	7.0	1.0	3.5
8	20.5	13.5	16.0	12.5	2.5	7.0	4.0	0.0	1.5	7.0	0.0	3.0
9	18.0	10.0	13.5	11.5	1.0	6.0	3.0	0.0	1.0	5.0	0.5	3.0
10	16.0	8.0	12.0	11.5	1.0	6.0	2.5	0.0	1.0	9.5	2.5	4.5
11	16.0	10.5	12.5	15.0	5.0	9.0	6.0	0.0	2.0	8.5	0.5	3.5
12	16.5	8.0	12.0	13.0	4.5	8.5	7.5	0.0	3.0	9.0	1.0	4.0
13	17.0	7.5	12.0	13.0	4.5	9.0	6.5	0.5	3.0	8.0	0.0	3.0
14	18.0	8.0	12.5	13.0	5.0	8.5	4.5	0.0	2.5	6.0	0.0	1.5
15	17.5	8.5	12.5	13.0	3.5	8.0	2.5	0.0	0.5	3.0	0.0	0.5
16	17.5	9.0	13.0	13.0	5.5	8.5	1.0	0.0	0.0	5.5	0.0	1.5
17	20.5	9.5	14.0	14.0	3.5	8.0	1.5	0.0	0.0	3.0	0.0	1.0
18	19.5	8.5	13.0	12.0	3.0	6.5	5.5	0.0	1.5	2.5	0.0	1.0
19	19.0	6.5	12.5	10.0	1.0	5.5	3.0	0.0	0.5	1.0	0.5	0.5
20	21.0	9.0	14.0	8.0	2.5	5.0	5.0	0.0	1.5	1.5	0.5	1.0
21	19.5	7.0	12.5	9.0	4.0	6.5	5.5	0.0	2.0	5.0	0.5	1.5
22	19.5	7.5	12.5	9.5	3.5	7.0	6.0	0.0	2.5	4.5	0.5	1.5
23	17.5	8.5	12.0	9.5	1.0	5.0	6.0	1.0	2.5	1.0	0.5	0.5
24	15.0	5.0	9.0	8.5	2.5	4.5	6.0	0.5	2.5	1.0	0.5	0.5
25	16.0	4.5	9.5	6.5	0.5	3.0	1.0	0.0	0.5	2.0	0.5	1.0
26	17.0	5.0	10.5	5.0	0.0	1.5	4.0	0.0	1.5	6.0	0.5	2.0
27	13.5	7.0	10.0	5.5	0.0	1.5	5.0	0.5	2.5	4.5	0.5	2.0
28	15.0	7.5	11.0	3.0	0.0	1.0	3.5	0.5	2.0	2.0	0.0	0.5
29	16.0	6.5	11.5	4.0	0.5	2.5	5.5	2.5	4.0	2.0	0.0	0.5
30	14.0	8.5	11.5	7.0	0.0	2.5	6.0	4.0	4.5	1.5	0.0	0.5
31	16.5	5.0	10.0	---	---	---	8.0	4.0	5.5	0.5	0.0	0.5
MONTH	25.0	4.5	13.3	15.5	0.0	6.5	8.5	0.0	2.2	10.0	0.0	2.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.0	0.5	10.5	0.0	4.5	25.0	4.5	13.5	17.0	6.0	11.5
2	2.5	0.0	0.5	12.5	0.5	4.5	25.5	6.0	14.5	21.5	8.5	14.5
3	3.5	0.0	1.0	14.0	0.5	5.0	25.0	7.0	15.0	23.0	11.5	17.0
4	5.0	0.0	1.0	15.5	0.5	6.5	25.0	7.5	15.5	25.5	12.0	18.0
5	3.0	0.0	1.0	16.0	1.5	7.5	21.5	9.0	14.5	26.0	11.0	18.0
6	4.5	0.0	1.5	14.0	5.0	8.0	21.5	8.5	14.0	27.5	11.0	18.5
7	5.5	0.0	3.0	12.5	3.5	7.0	23.0	7.5	14.5	21.5	13.5	17.0
8	7.5	1.0	3.5	14.0	1.0	6.5	22.5	7.5	14.5	21.5	9.5	15.0
9	7.5	0.0	2.5	14.5	1.0	6.5	16.5	10.5	13.0	22.5	10.0	16.0
10	7.5	0.0	2.5	12.5	3.0	6.5	24.0	8.0	14.5	19.5	12.0	14.5
11	8.5	0.0	3.5	15.0	2.0	8.0	24.5	9.0	15.5	22.0	10.5	15.5
12	10.5	1.0	5.0	14.0	5.5	9.0	27.0	8.0	16.0	25.5	9.5	17.5
13	5.5	1.5	3.0	13.5	1.0	6.5	26.0	8.0	16.5	28.0	12.0	19.0
14	11.0	1.5	5.5	12.5	1.5	6.0	23.0	11.5	16.5	28.5	12.5	19.0
15	9.0	1.0	5.0	10.0	0.0	4.5	15.0	9.5	12.0	27.5	11.5	18.5
16	11.5	2.0	6.0	9.0	0.0	3.5	14.0	7.0	10.0	28.5	11.5	19.0
17	8.0	3.5	5.5	8.5	0.5	3.5	15.0	7.0	10.5	26.5	13.0	19.0
18	10.5	3.0	6.0	12.5	0.0	5.0	13.0	7.0	10.0	27.0	16.0	20.5
19	10.0	4.0	6.5	16.5	0.0	7.5	15.5	7.0	10.0	22.5	14.5	18.0
20	14.0	4.5	8.5	18.0	2.5	9.5	22.5	6.0	13.0	15.0	11.5	13.5
21	14.5	4.0	9.0	17.5	5.0	11.0	24.5	7.0	14.5	19.0	9.0	13.5
22	14.5	4.5	9.0	18.5	5.5	11.0	27.5	8.0	16.0	24.0	9.0	15.5
23	12.0	5.5	8.5	14.0	6.0	9.0	26.0	8.0	16.0	26.0	10.5	17.0
24	14.5	2.5	8.0	18.5	5.5	10.5	22.0	8.0	14.0	27.5	11.0	18.5
25	13.5	2.5	7.5	19.5	2.0	10.0	24.0	9.5	16.5	27.0	13.0	19.5
26	13.5	1.5	7.0	22.5	4.0	12.0	19.5	11.5	14.5	28.0	14.0	20.0
27	12.0	3.0	7.0	22.5	4.0	12.0	20.5	9.5	14.0	28.5	14.5	20.5
28	12.5	1.0	6.0	23.0	4.5	12.0	21.0	8.5	14.0	29.5	14.5	21.0
29	---	---	---	24.0	5.0	13.0	16.0	11.5	13.5	31.0	16.5	23.5
30	---	---	---	24.0	4.5	13.0	15.0	8.0	11.5	33.0	17.5	24.5
31	---	---	---	25.0	4.0	13.0	---	---	---	33.0	18.0	24.5
MONTH	14.5	0.0	4.8	25.0	0.0	8.1	27.5	4.5	13.9	33.0	6.0	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	JUNE			JULY			AUGUST			SEPTEMBER		
1	26.0	17.5	21.5	32.0	18.5	24.5	31.5	19.5	24.0	30.0	16.0	22.5
2	30.0	13.0	20.5	32.0	19.5	25.0	29.0	17.5	22.5	30.5	16.0	22.5
3	28.5	15.0	21.5	32.0	18.5	24.0	32.0	18.5	23.5	27.0	15.5	21.0
4	29.5	16.0	22.0	31.5	16.0	23.0	28.0	17.0	22.0	23.0	15.5	19.0
5	32.0	17.0	23.0	31.5	17.5	23.5	26.0	16.0	20.5	24.5	13.0	18.5
6	33.5	16.0	23.5	32.0	17.5	24.0	27.5	15.0	20.5	20.0	13.5	16.5
7	33.0	16.0	22.5	31.0	20.0	24.5	26.5	16.0	20.5	23.0	10.5	16.0
8	26.0	11.0	17.5	31.5	17.5	23.5	28.0	14.0	20.5	22.5	12.5	17.0
9	25.5	10.0	16.5	30.5	19.0	24.5	30.5	14.0	21.5	22.5	12.5	17.0
10	26.0	12.0	18.0	33.5	20.0	26.5	31.0	15.5	22.5	22.5	13.5	17.5
11	28.0	13.0	20.0	32.5	21.5	26.5	31.5	17.0	24.0	23.0	14.0	18.0
12	30.0	14.5	21.5	30.5	23.0	26.0	31.5	17.0	23.5	24.0	14.0	19.0
13	31.5	16.0	23.5	30.0	21.0	24.0	31.5	16.5	23.5	26.0	13.5	19.5
14	33.0	16.0	23.5	32.0	19.5	25.0	32.0	16.5	24.0	26.5	14.0	19.5
15	33.0	15.5	23.0	32.0	20.5	25.5	33.0	18.5	25.0	23.5	14.5	18.5
16	31.0	17.0	23.0	32.5	21.0	26.0	33.0	18.5	25.0	24.0	12.0	17.0
17	29.5	16.0	22.5	28.0	21.0	23.5	32.5	17.0	23.5	23.0	12.0	17.0
18	29.5	17.5	23.0	25.0	18.0	21.0	30.5	16.0	23.0	23.5	14.0	18.0
19	30.0	16.0	22.5	30.0	16.5	22.5	29.5	16.5	22.0	23.0	12.0	17.0
20	29.5	17.0	22.0	30.5	20.0	25.0	26.5	14.5	19.5	24.5	12.0	18.0
21	27.0	18.0	21.5	29.0	20.0	24.5	26.5	14.0	19.5	24.5	12.5	18.0
22	31.0	15.5	22.5	31.0	20.0	25.0	27.5	14.0	20.0	24.5	13.0	18.5
23	32.0	18.0	24.0	30.5	19.0	24.5	27.0	15.0	20.5	25.0	13.0	19.0
24	32.0	18.0	24.5	31.0	19.5	24.5	28.0	15.0	21.0	24.5	13.5	18.5
25	33.5	18.5	25.0	29.5	18.5	23.5	28.5	16.0	21.5	22.5	13.0	17.5
26	34.0	19.0	25.0	30.5	17.0	23.0	26.5	15.5	20.5	22.0	10.5	16.0
27	34.5	17.5	24.0	30.0	18.0	23.5	27.5	14.5	20.5	22.0	12.5	16.0
28	33.0	16.0	23.5	30.0	18.0	23.5	27.0	15.0	20.5	21.5	11.5	15.5
29	33.5	16.0	23.5	31.5	17.5	24.0	28.0	16.5	22.0	19.5	10.5	14.5
30	33.0	17.5	24.5	33.0	19.0	25.0	28.5	18.0	22.5	19.5	11.5	15.0
31	---	---	---	33.0	19.5	25.5	29.5	17.0	22.5	---	---	---
MONTH	34.5	10.0	22.3	33.5	16.0	24.3	33.0	14.0	22.0	30.5	10.5	17.9

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°06'12", long 118°55'42", in NW $^1/_4$ SE $^1/_4$ sec.02, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi upstream from Weber Dam, about 11 mi downstream from gage near Wabuska, and 12 mi northwest of Schurz.

DRAINAGE AREA.--2,700 mi^2, approximately.

PERIOD OF RECORD.--June 1977 to September 1982, June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,215 ft above NGVD of 1929, from topographic map. Prior to September 1982, at same site at datum 1.0 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,000 ft^3/s, July 5, 1980, gage height, unknown; maximum gage height, 10.37 ft, January 8, 1997 (different datum); no flow July 16-18, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92 ft^3/s, May 22, gage height, 6.25 ft, backwater from beaver dam(s); minimum daily, 2.4 ft^3/s, March 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	19	11	18	11	24	6.7	51	23	5.4	7.9	18
2	34	19	12	18	11	23	7.0	39	22	11	19	14
3	30	21	12	18	13	10	7.2	43	20	20	13	11
4	20	22	12	18	17	5.0	7.3	46	22	22	14	8.5
5	16	24	13	18	23	4.2	7.5	38	32	16	21	11
6	16	23	13	17	28	3.6	7.5	33	25	14	32	9.0
7	18	21	13	15	33	2.9	7.4	31	16	14	32	4.2
8	26	19	14	15	37	2.5	7.2	52	9.2	17	31	9.9
9	28	19	13	15	33	3.9	7.5	49	8.0	22	20	22
10	37	19	14	15	32	5.4	8.0	44	12	44	13	38
11	44	18	13	15	33	6.9	8.8	45	22	39	9.8	46
12	44	16	12	15	30	7.2	9.0	48	26	46	9.9	47
13	38	15	11	14	23	7.0	9.1	29	25	47	11	38
14	34	13	11	10	24	7.7	8.9	23	20	33	9.3	27
15	28	11	9.7	10	25	7.2	14	19	14	26	5.7	22
16	23	12	8.2	9.4	25	6.8	35	16	10	24	7.3	17
17	19	11	7.7	9.5	25	15	43	17	18	26	5.3	15
18	14	7.0	9.0	8.5	25	20	36	29	23	24	6.3	16
19	9.7	5.8	12	7.6	25	20	31	41	21	24	5.9	21
20	8.3	6.2	15	6.0	25	18	20	54	21	20	7.3	22
21	6.0	6.1	15	5.7	24	16	15	74	21	29	11	20
22	4.4	6.4	15	5.6	24	14	13	73	30	28	15	17
23	3.6	7.0	15	5.5	23	13	11	33	22	27	18	19
24	4.1	7.5	15	6.2	21	10	11	21	17	26	13	19
25	8.2	7.7	14	8.9	20	9.2	12	18	19	24	14	20
26	13	7.7	13	14	20	8.0	14	13	16	20	16	22
27	14	9.2	16	24	22	7.5	16	12	12	16	18	23
28	16	12	15	26	27	7.2	23	17	9.7	13	15	20
29	15	13	17	20	---	6.9	40	21	8.0	17	14	16
30	12	12	18	16	---	7.0	53	24	6.5	18	19	24
31	14	---	18	12	---	6.9	---	19	---	16	20	---
TOTAL	630.3	409.6	406.6	415.9	679	306.0	496.1	1072	550.4	728.4	453.7	616.6
MEAN	20.33	13.65	13.12	13.42	24.25	9.871	16.54	34.58	18.35	23.50	14.64	20.55
MAX	44	24	18	26	37	24	53	74	32	47	32	47
MIN	3.6	5.8	7.7	5.5	11	2.5	6.7	12	6.5	5.4	5.3	4.2
AC-FT	1250	812	806	825	1350	607	984	2130	1090	1440	900	1220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

MEAN	44.92	72.02	79.11	171.6	183.4	155.1	159.5	383.4	448.0	274.8	83.14	64.97
MAX	149	206	182	1146	722	387	563	864	1017	1155	260	236
(WY)	1981	1999	1996	1997	1997	1996	1982	1997	1995	1995	1980	1980
MIN	3.39	0.032	3.97	6.12	20.0	9.76	16.2	33.9	18.3	20.6	14.6	17.9
(WY)	1978	1978	1978	1978	1978	2002	2002	1978	2002	1977	2002	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1977 - 2002	
ANNUAL TOTAL	11430.1		6764.6			
ANNUAL MEAN	31.32		18.53		183.9	
HIGHEST ANNUAL MEAN					374	1997
LOWEST ANNUAL MEAN					18.8	2002
HIGHEST DAILY MEAN	145	May 14	74	May 21	1900	Jul 5 1980
LOWEST DAILY MEAN	3.6	Oct 23	2.5	Mar 8	0.00	Jul 16 1977
ANNUAL SEVEN-DAY MINIMUM	6.3	Oct 19	3.9	Mar 4	0.00	Oct 14 1994
MAXIMUM PEAK FLOW			92	May 22	2000	Jul 5 1980
MAXIMUM PEAK STAGE			6.25	May 22	10.37	Jan 8 1997
ANNUAL RUNOFF (AC-FT)	22670		13420		133200	
10 PERCENT EXCEEDS	65		33		553	
50 PERCENT EXCEEDS	25		16		71	
90 PERCENT EXCEEDS	11		7.0		16	

10301700 WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°02'41", long 118°51'33", in NE $^{1}/_{4}$ SW $^{1}/_{4}$ sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, approximately 8 miles above Schurz.

DRAINAGE AREA.--2,770 mi^2, approximately.

PERIOD OF RECORD.--April 1995 to June 1996; November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,221 ft above NGVD of 1929 (project datum Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by Bureau of Indian Affairs (formerly U. S. Indian Service). Construction started September 21, 1933. Storage began July 27, 1934, although it was nearly a year later before the dam was completely finished. Capacity 10,700 acre-ft, with a surface area at 900 acres, determined from Bathymetric Survey by U. S. Geological Survey in 1973. Many diversions for irrigation above reservoir. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 10,600 acre-ft, June 5, 1999, elevation, 4207.93 ft; minimum, 53 acre-ft, August 12, 2000, elevation 4182.05.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,390 acre-ft, April 27, 29, elevation 4,199.34 ft; minimum, 237 acre-ft, September 7, elevation 4184.87 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,181	0	4,200	4,750
4,185	250	4,205	8,200
4,190	850	4,208	10,700
4,195	2,100		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	740	580	1190	1920	2280	3410	3950	4250	2810	1610	907	390
2	794	610	1220	1970	2280	3480	3940	4190	2700	1530	929	379
3	841	637	1240	2010	2280	3530	3930	4100	2580	1420	940	356
4	875	664	1260	2040	2280	3560	3920	4030	2480	1320	949	324
5	900	699	1280	2080	2300	3580	3920	3940	2420	1220	956	289
6	919	738	1310	2110	2320	3590	3910	3860	2380	1140	970	243
7	937	775	1330	2140	2360	3600	3900	3730	2320	1070	990	252
8	956	809	1350	2160	2420	3610	3890	3640	2260	990	1020	263
9	949	835	1380	2200	2460	3610	3880	3590	2200	931	1050	286
10	919	856	1400	2220	2490	3610	3880	3570	2150	878	1070	344
11	888	877	1430	2240	2520	3620	3870	3560	2100	832	1080	412
12	860	898	1460	2270	2530	3630	3860	3590	2080	781	1100	488
13	834	919	1490	2300	2510	3630	3860	3570	2060	753	1110	566
14	808	940	1500	2320	2480	3640	3830	3540	2030	730	1120	647
15	776	962	1510	2330	2480	3640	3820	3500	2020	700	1140	696
16	733	982	1530	2340	2540	3650	3880	3440	2010	688	1130	731
17	682	1010	1540	2340	2620	3670	3980	3390	2000	684	1130	762
18	624	1030	1550	2320	2690	3700	4090	3330	2000	687	1130	781
19	542	1040	1560	2320	2770	3750	4180	3330	2010	688	1130	805
20	474	1050	1590	2300	2840	3800	4240	3360	2020	685	1080	834
21	406	1070	1610	2290	2910	3850	4270	3450	2040	678	1010	862
22	340	1070	1640	2270	2990	3880	4290	3590	2060	697	966	869
23	305	1080	1660	2260	3040	3890	4330	3590	2090	722	928	869
24	327	1100	1680	2240	3100	3910	4320	3550	2100	756	877	868
25	347	1110	1700	2240	3170	3940	4330	3500	2120	785	816	871
26	381	1120	1720	2230	3220	3940	4350	3450	2070	816	748	877
27	419	1130	1740	2230	3280	3950	4360	3390	1980	840	675	883
28	456	1120	1780	2260	3350	3950	4360	3310	1880	854	598	888
29	490	1160	1810	2270	---	3950	4340	3190	1770	e866	514	888
30	520	1170	1850	2270	---	3950	4290	3070	1690	880	447	878
31	548	---	1890	2280	---	3950	---	2950	---	892	397	---
MAX	956	1170	1890	2340	3350	3950	4360	4250	2810	1610	1140	888
MIN	305	580	1190	1920	2280	3410	3820	2950	1690	678	397	243
#	4187.98	4191.85	4194.40	4195.45	4197.54	4198.58	4199.16	4196.82	4193.77	4190.28	4186.47	4190.19
##	-131	+622	+720	+390	+1070	+600	+340	-1340	-1260	-798	-495	+481

CAL YR 2001 MAX 2230 MIN 216 ## +500
WTR YR 2002 MAX 4360 MIN 243 ## +199

e Estimated
Elevation, in feet above sea level, at end of month.
Change in contents, in acre-feet.

WALKER LAKE BASIN

10301742 CANAL NO 2 ABOVE LITTLE DAM NEAR SCHURZ, NV

LOCATION.--Lat 39°00'51", long 118°51'36", in SE $^{1}/_{4}$ SW $^{1}/_{4}$ sec.04, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on right bank, about 2 mi downstream from Weber Dam, and about 5 mi northwest of Schurz.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1995 to June 1996, November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by control gate on Walker River and many diversions above station. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 89 ft^3/s, April 26, 1997; no flow many days, most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e0.00	e0.00	e0.03	e0.00	e0.03	0.00	30	34	25	e0.00	e4.0
2	0.01	e0.00	e0.00	e0.03	e0.00	e0.02	0.00	34	34	25	e0.00	e0.04
3	0.03	e0.00	e0.00	e0.03	e0.00	e0.02	0.00	38	32	25	e0.00	e0.05
4	0.03	e0.00	e0.00	e0.04	e0.00	e0.03	0.00	39	32	25	e0.00	e0.05
5	0.03	e0.00	e0.00	e0.05	e0.00	e0.04	0.00	39	29	22	e0.00	e0.06
6	0.03	e0.00	e0.00	e0.04	e0.00	e0.04	0.00	39	31	23	e0.00	e0.09
7	0.02	e0.00	e0.00	e0.05	e0.00	e0.05	0.00	40	30	23	e0.00	e0.03
8	0.04	e0.00	e0.00	e0.06	e0.00	e0.00	0.00	41	35	24	e0.00	e0.05
9	0.10	e0.00	e0.00	e0.07	e0.00	e0.00	0.00	42	38	29	e0.00	e0.04
10	5.6	e0.00	e0.00	e0.07	e0.00	e0.00	0.00	39	33	29	e0.00	e0.03
11	15	e0.00	e0.01	e0.06	e0.00	e0.00	0.00	33	32	29	e0.02	e0.00
12	15	e0.00	e0.00	e0.07	e0.00	e0.00	0.00	24	30	29	e0.00	e0.00
13	15	e0.00	e0.00	e0.05	e0.00	e0.00	0.00	26	30	28	e0.00	e0.00
14	17	e0.00	e0.00	e0.05	e0.00	0.00	0.00	25	29	29	e0.00	e0.00
15	18	e0.00	e0.00	e0.05	e0.00	0.00	0.00	28	22	28	e0.00	e0.00
16	39	e0.00	e0.00	e0.03	e0.00	0.00	0.02	36	9.2	27	e0.00	e0.00
17	49	e0.00	e0.00	e0.00	e0.00	0.00	0.02	35	8.9	22	e0.00	e0.00
18	50	e0.00	e0.00	e0.00	e0.00	0.00	0.01	25	7.6	20	e0.00	e0.00
19	50	e0.00	e0.00	e0.00	e0.00	0.00	0.0	31	6.4	19	e0.00	e0.00
20	49	e0.00	e0.00	e0.00	e0.05	0.00	0.0	21	2.7	18	e10	e0.00
21	45	e0.00	e0.00	e0.00	e0.06	0.00	0.0	17	0.00	18	e23	e0.00
22	35	e0.00	e0.00	e0.00	e0.07	0.00	0.02	17	0.00	14	e23	e0.00
23	e24	e0.00	e0.00	e0.00	e0.07	0.00	0.01	18	0.00	5.8	e21	e0.00
24	e4.8	e0.00	e0.04	e0.00	e0.07	0.00	0.00	18	0.00	e2.6	e23	e0.00
25	e1.2	e0.00	e0.03	e0.00	e0.06	0.00	0.00	12	0.00	e0.00	e22	e0.00
26	e0.27	e0.00	e0.03	e0.00	e0.00	0.00	0.00	12	5.9	e0.00	e20	e0.00
27	e0.09	e0.00	e0.04	e0.00	e0.01	0.00	0.00	13	18	e0.00	e22	e0.00
28	e0.15	e0.00	e0.05	e0.00	e0.02	0.00	0.00	18	25	e0.00	e22	e0.01
29	e0.18	e0.00	e0.06	e0.00	---	0.00	2.9	31	26	e0.00	e22	e0.03
30	e0.00	e0.00	e0.03	e0.00	---	0.00	26	34	26	e0.00	e22	21
31	e0.00	---	e0.03	e0.00	---	0.00	---	34	---	e0.00	e21	---
TOTAL	433.58	0.00	0.32	0.78	0.41	0.23	28.98	889	606.70	539.40	251.02	25.48
MEAN	14.0	0.000	0.010	0.025	0.015	0.007	0.97	28.7	20.2	17.4	8.10	0.85
MAX	50	0.00	0.06	0.07	0.07	0.05	26	42	38	29	23	21
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00
AC-FT	860	0.00	0.6	1.5	0.8	0.5	57	1760	1200	1070	498	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

MEAN	15.2	1.34	0.21	0.041	0.038	0.034	14.3	36.4	31.8	34.0	30.4	25.9
MAX	20.6	3.40	0.63	0.13	0.17	0.13	30.7	47.1	45.7	52.7	54.3	45.9
(WY)	2000	1998	2000	2000	2000	2000	1996	1999	1999	1998	1998	1998
MIN	7.35	0.000	0.000	0.000	0.000	0.000	0.97	28.7	20.2	14.3	6.79	0.85
(WY)	2001	2002	1996	1996	2001	2001	2002	2002	2002	2001	2001	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1995 - 2002	
ANNUAL TOTAL	3206.80		2775.90			
ANNUAL MEAN	8.79		7.61		14.0	
HIGHEST ANNUAL MEAN					21.0	1998
LOWEST ANNUAL MEAN					7.61	2002
HIGHEST DAILY MEAN	50	May 3	50	Oct 18	89	Apr 26 1997
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Nov 22 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 30	0.00	Nov 22 1995
ANNUAL RUNOFF (AC-FT)	6360		5510		10170	
10 PERCENT EXCEEDS	36		29		45	
50 PERCENT EXCEEDS	0.03		0.00		0.49	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

10301755 CANAL NO 1 BELOW LITTLE DAM NEAR SCHURZ, NV

LOCATION.--Lat 39°00'45", long 118°51'37", in SE $^1/_4$ SW $^1/_4$ sec.04, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on left bank, about 2 mi downstream from Weber Dam, and about 5 mi northwest of Schurz.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1995 to June 1996, November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,160 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Estimated daily discharge, result of seepage flow in canal. Flow regulated by control gate on Walker River. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 55 ft^3/s, July 15, 1998, no flow many days, most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	34	36	23	e0.00	18
2	0.03	e0.00	e0.00	e0.00	e0.00	e0.00	e0.01	34	34	24	e0.00	20
3	0.03	e0.02	e0.00	e0.00	e0.00	e0.00	e0.00	33	30	24	e0.00	20
4	0.02	e0.03	e0.00	e0.00	e0.00	e0.00	e0.00	34	29	24	e0.00	19
5	0.0	e0.03	e0.00	e0.00	e0.00	e0.00	e0.00	34	20	27	e0.00	18
6	0.0	e0.03	e0.00	e0.00	e0.01	e0.00	e0.00	35	17	27	e0.00	19
7	0.0	e0.01	e0.00	e0.00	e0.01	e0.00	e0.00	35	e10	27	e0.00	e11
8	0.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	35	e4.3	25	e0.00	e2.3
9	9.6	e0.00	e0.00	e0.02	e0.01	e0.00	e0.00	32	e0.06	21	e0.00	e0.95
10	33	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	26	e0.04	21	e0.00	e0.51
11	39	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	19	e0.03	21	e0.00	e0.37
12	40	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	16	e0.03	21	e0.00	e0.24
13	40	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	17	e0.03	17	e0.00	e0.11
14	39	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	16	e0.03	14	e0.00	e0.31
15	38	e0.00	e0.00	e0.01	e0.00	e0.00	e0.00	e9.9	e0.03	e12	e0.00	e0.09
16	e12	e0.00	e0.00	e0.01	e0.00	e0.00	e0.00	e0.26	e0.03	e0.23	e0.00	e0.02
17	e0.14	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.09	e0.03	e0.04	e0.00	e0.00
18	e0.01	e0.00	e0.00	e0.01	e0.00	e0.00	e0.00	e0.09	e0.03	e0.03	e0.00	e0.00
19	e0.00	e0.00	e0.00	e0.01	e0.00	e0.00	e0.00	e0.08	e0.05	e0.00	e0.00	e0.00
20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.03	e0.07	e0.03	e8.7	e0.00
21	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.09	e0.02	19	e0.00
22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.06	e0.01	17	e3.4
23	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e11	e0.07	e0.03	18	15
24	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	27	e0.08	e0.06	20	15
25	e0.00	e0.00	e0.01	e0.00	e0.00	e0.00	e0.00	34	e0.07	e0.07	24	15
26	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	e0.00	34	e12	e0.02	27	15
27	e0.00	e0.00	e0.04	e0.00	e0.00	e0.00	e0.00	34	21	e0.00	25	14
28	e0.00	e0.00	e0.03	e0.00	e0.00	e0.00	e0.00	31	22	e0.00	26	11
29	e0.00	e0.00	e0.01	e0.00	---	e0.00	23	37	23	e0.01	26	12
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	33	37	22	e0.00	25	1.1
31	e0.00	---	e0.00	e0.00	---	e0.00	---	36	---	e0.00	23	---
TOTAL	250.91	0.12	0.12	0.21	0.03	0.00	56.01	691.45	281.13	328.55	258.70	231.40
MEAN	8.09	0.004	0.004	0.007	0.001	0.000	1.87	22.3	9.37	10.6	8.35	7.71
MAX	40	0.03	0.04	0.03	0.01	0.00	33	37	36	27	27	20
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
AC-FT	498	0.2	0.2	0.4	0.06	0.00	111	1370	558	652	513	459

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

MEAN	6.55	0.28	0.88	0.33	0.005	0.008	8.70	22.2	19.5	22.7	18.8	15.8
MAX	8.31	1.40	5.81	2.26	0.013	0.022	15.1	32.4	29.3	33.7	30.9	25.5
(WY)	2000	2000	1997	1997	2000	2000	1996	1997	1996	1998	1998	1997
MIN	4.78	0.004	0.000	0.000	0.000	0.000	1.87	12.1	9.37	10.6	4.22	7.47
(WY)	2001	2002	1996	2001	1997	1997	2002	1995	2002	2002	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1995 - 2002	
ANNUAL TOTAL	2243.28		2098.63			
ANNUAL MEAN	6.15		5.75		8.41	
HIGHEST ANNUAL MEAN					11.4	1999
LOWEST ANNUAL MEAN					5.75	2002
HIGHEST DAILY MEAN	44	Apr 25	40	Oct 12	55	Jul 15 1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 5	0.00	Nov 21 1995
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 19	0.00	Nov 21 1995
ANNUAL RUNOFF (AC-FT)	4450		4160		6090	
10 PERCENT EXCEEDS	26		25		32	
50 PERCENT EXCEEDS	0.00		0.00		0.08	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV

LOCATION.--Lat 38°56'25", long 118°48'10", in SE $^1/_4$ SW $^1/_4$ sec.36, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on right bank, 0.4 mi east of U.S. Highway 95 and U.S. Alternate Highway 95 Junction, and 0.9 mi southeast of U.S. Highway 95 Highway Bridge in Schurz.

DRAINAGE AREA.-- Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,140 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except flows below 2.0 ft^3/s and estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500), Topaz Lake (station 10297000), and Weber Reservoir (station 10301700), combined capacity, 112,600 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s, January 9, 1997, gage height, 7.39 ft, maximum gage height, 7.82 ft, July 16, 1995; no flow many days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s, February 14-15, gage height, 3.31 ft; no flow, most of the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0	0.0	0.0	0.0	e1.9	0.0	0.0	0.0	0.0	0.00	0.00	0.00
2	0.0	0.0	0.0	0.0	e1.9	0.0	0.0	0.0	0.0	0.00	0.00	0.00
3	0.0	0.0	0.0	0.0	e1.9	0.0	0.0	0.0	0.00	0.00	0.00	0.00
4	0.0	0.0	0.0	0.0	e2.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
5	0.0	0.0	0.0	0.0	e2.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
6	0.0	0.0	0.0	0.0	e2.0	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
7	0.0	0.0	0.0	0.0	e2.0	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
8	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
9	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
10	0.0	0.0	0.0	0.0	e4.2	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
11	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
12	0.0	0.0	0.0	0.0	11	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
13	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
14	0.0	0.0	0.0	0.0	29	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
15	0.0	0.0	0.0	0.0	31	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
16	0.0	0.0	0.0	0.0	14	0.0	0.0	0.0	0.00	0.00	e0.00	0.00
17	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.00	0.00	0.00	0.00
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
28	0.0	0.0	0.0	e1.9	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
29	0.0	0.0	0.0	e1.9	---	0.0	0.0	0.0	0.00	0.00	0.00	0.00
30	0.0	0.0	0.0	e1.9	---	0.0	0.0	0.0	0.00	0.00	0.00	0.00
31	0.0	---	0.0	e1.9	---	0.0	---	0.0	---	0.00	0.00	---
TOTAL	0.0	0.0	0.0	7.6	134.67	0.0	0.0	0.0	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.245	4.810	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	0.00	1.9	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	15	267	0.00	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

MEAN	27.28	75.72	95.68	267.2	240.5	169.0	107.9	414.5	552.6	303.9	68.64	21.72
MAX	74.5	220	198	1557	914	410	321	918	1206	1438	339	76.2
(WY)	1999	1999	1999	1997	1997	1996	1998	1997	1995	1995	1995	1998
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1995	1995	1995	1995	1995	1995	2002	2002	2002	2002	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1995 - 2002	
ANNUAL TOTAL	4155.43		142.27			
ANNUAL MEAN	11.38		0.390		195.1	
HIGHEST ANNUAL MEAN					431	1997
LOWEST ANNUAL MEAN					0.39	2002
HIGHEST DAILY MEAN	75	Mar 5	31	Feb 15	2300	Jan 10 1997
LOWEST DAILY MEAN	0.00	May 26	0.00	Oct 1	0.00	Oct 1 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 6	0.00	Oct 1	0.00	Oct 1 1994
MAXIMUM PEAK FLOW			33	Feb 14	2400	Jan 9 1997
MAXIMUM PEAK STAGE			3.31	Feb 14	7.82	Jul 16 1995
ANNUAL RUNOFF (AC-FT)	8240		282		141300	
10 PERCENT EXCEEDS	44		0.00		640	
50 PERCENT EXCEEDS	0.00		0.00		52	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November and December 1993, May to June 1996, November 1996 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1995 to June 1996 (seasonal), November 1996 to current year.
WATER TEMPERATURE: May 1995 to June 1996 (seasonal), November 1996 to current year.

INSTRUMENTATION.--Specific conductance and water temperature monitor May 1995 to June 1996, November 1996 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C. Interruptions in record due to partial or no flow during the day.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 931 microsiemens, October 17, 2000; minimum daily, 143 microsiemens, May 12, 1998.
WATER TEMPERATURE: Maximum recorded, 33.0°C, July 21, 2000; minimum daily, freezing point many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 658 microsiemens, January 31; minimum, 577 microsiemens, February 16.
WATER TEMPERATURE: Maximum recorded, 9.0°C, February 16; minimum daily, 0.5°C, January 28-31, February 1-7, 9, 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	652	619	634
29	---	---	---	---	---	---	---	---	---	631	606	619
30	---	---	---	---	---	---	---	---	---	651	617	632
31	---	---	---	---	---	---	---	---	---	658	616	634
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	640	598	619	---	---	---	---	---	---	---	---	---
2	627	587	608	---	---	---	---	---	---	---	---	---
3	623	581	603	---	---	---	---	---	---	---	---	---
4	623	580	599	---	---	---	---	---	---	---	---	---
5	619	579	597	---	---	---	---	---	---	---	---	---
6	613	579	595	---	---	---	---	---	---	---	---	---
7	596	578	587	---	---	---	---	---	---	---	---	---
8	594	584	589	---	---	---	---	---	---	---	---	---
9	602	590	596	---	---	---	---	---	---	---	---	---
10	605	583	593	---	---	---	---	---	---	---	---	---
11	593	584	589	---	---	---	---	---	---	---	---	---
12	590	583	586	---	---	---	---	---	---	---	---	---
13	595	583	588	---	---	---	---	---	---	---	---	---
14	590	579	585	---	---	---	---	---	---	---	---	---
15	585	578	582	---	---	---	---	---	---	---	---	---
16	602	577	587	---	---	---	---	---	---	---	---	---
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
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TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
29	---	---	---	---	---	---	---	---	---	1.5	0.5	0.5
30	---	---	---	---	---	---	---	---	---	2.0	0.5	1.0
31	---	---	---	---	---	---	---	---	---	2.0	0.5	1.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	0.5	1.0	---	---	---	---	---	---	---	---	---
2	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
3	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
4	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
5	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
6	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
7	3.0	0.5	2.0	---	---	---	---	---	---	---	---	---
8	6.5	2.0	3.5	---	---	---	---	---	---	---	---	---
9	6.0	0.5	3.0	---	---	---	---	---	---	---	---	---
10	4.5	0.5	2.5	---	---	---	---	---	---	---	---	---
11	5.0	1.5	3.5	---	---	---	---	---	---	---	---	---
12	7.5	3.0	5.0	---	---	---	---	---	---	---	---	---
13	5.5	4.0	5.0	---	---	---	---	---	---	---	---	---
14	7.5	4.5	6.0	---	---	---	---	---	---	---	---	---
15	7.5	4.5	6.5	---	---	---	---	---	---	---	---	---
16	9.0	4.5	7.0	---	---	---	---	---	---	---	---	---
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10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
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MONTH	---	---	---	---	---	---	---	---	---	---	---	---

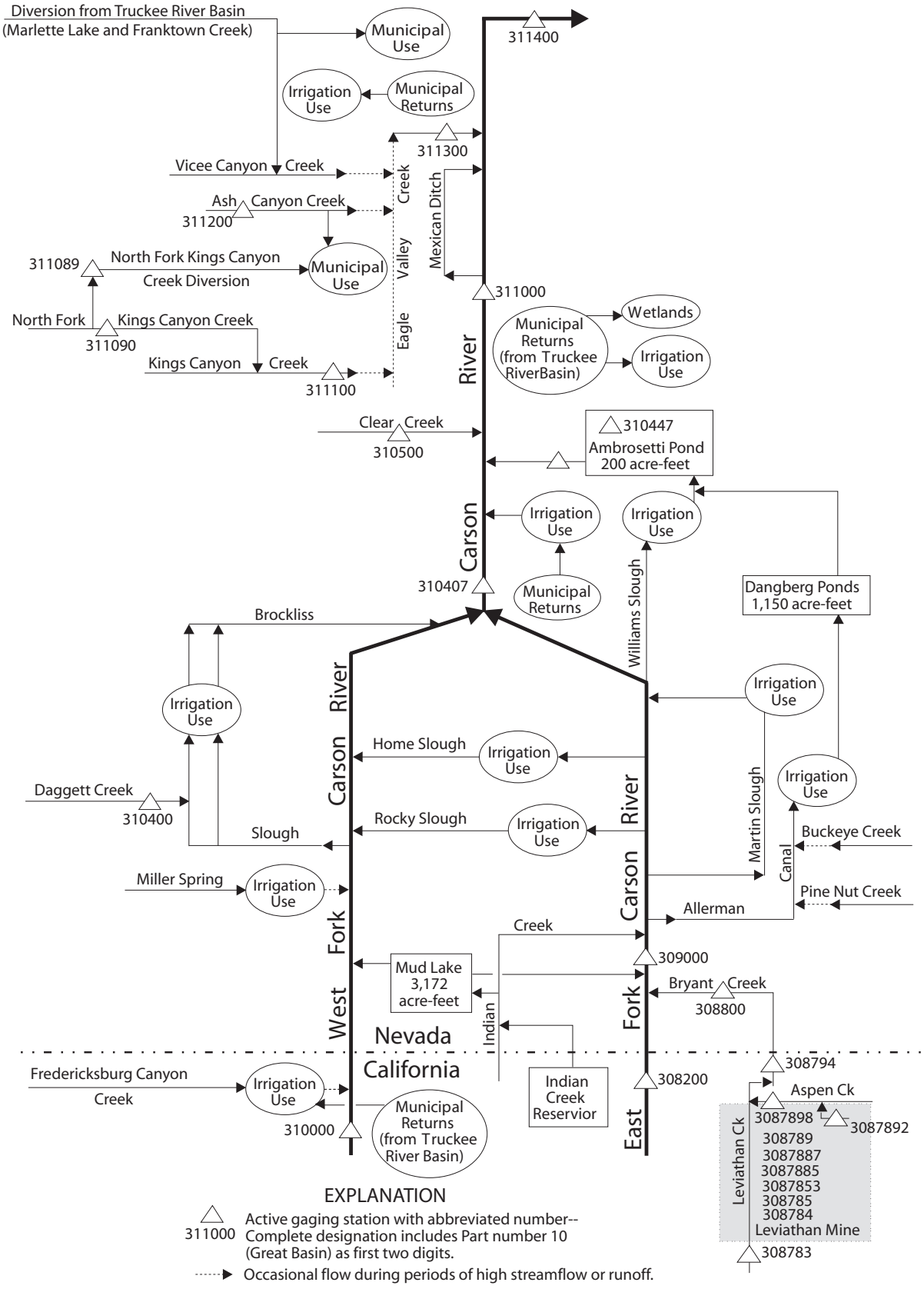


Figure 22. Schematic diagram of flow system and gaging stations in the Carson River basin upstream of station 311400.

CARSON RIVER BASIN

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'50", long 119°45'50", in SW $^1/_4$ NE $^1/_4$ sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank, 0.5 mi downstream from Markleeville Creek, 1.5 mi northeast of Markleeville, and at mi 114.75 upstream from Lahontan Dam.

DRAINAGE AREA.--276 mi^2.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,400 ft above NGVD of 1929, from topographic map. Prior to October 1, 1967, at present site at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s, January 2, 1997, gage height, 11.78 ft; minimum daily, 12 ft^3/s, September 10-13, 23, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*)

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 15	0015	*1830	*4.56	May 18	2230	1740	4.47
May 31	0130	1610	4.34				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	51	65	131	e78	173	425	393	1350	243	87	51
2	31	44	107	143	e81	151	490	381	1150	232	88	48
3	29	42	61	179	86	150	580	442	956	215	87	47
4	28	41	63	123	88	157	727	565	932	194	81	49
5	28	40	69	115	90	161	792	697	985	181	72	56
6	28	39	70	182	92	194	720	834	986	170	70	57
7	28	39	76	221	82	185	681	951	946	156	74	60
8	28	39	76	194	84	149	702	915	862	148	87	54
9	29	38	75	164	81	161	774	851	719	149	86	52
10	30	37	72	142	83	166	784	821	615	139	71	51
11	29	42	70	128	83	168	859	727	571	142	e70	60
12	29	46	68	127	85	212	957	769	565	144	69	48
13	30	48	68	118	86	207	969	937	587	147	62	47
14	30	45	66	109	90	172	1220	1040	604	134	67	45
15	29	45	52	103	91	141	1370	1090	555	122	66	43
16	28	44	70	95	92	151	815	1190	531	113	66	43
17	27	42	78	82	99	143	642	1250	503	109	64	43
18	29	40	79	71	91	142	532	1460	511	120	59	44
19	30	38	82	94	99	142	466	1350	520	121	59	44
20	31	39	68	96	127	164	421	1110	478	108	61	43
21	30	46	72	100	136	169	408	819	462	99	72	42
22	30	149	73	82	158	189	426	665	423	92	59	41
23	30	78	65	e84	189	197	464	598	389	88	57	40
24	30	177	64	e82	166	190	511	593	368	83	57	40
25	31	106	60	e81	161	193	580	662	348	79	55	43
26	31	68	69	e79	166	210	683	735	336	81	53	38
27	32	75	70	e76	178	215	587	839	326	79	52	36
28	33	67	77	e74	175	231	503	893	302	82	54	35
29	33	66	89	71	---	261	477	1060	283	81	58	36
30	46	60	102	70	---	318	432	1270	263	85	57	38
31	74	---	172	e72	---	368	---	1340	---	80	53	---
TOTAL	983	1731	2348	3488	3117	5830	19997	27247	18426	4016	2073	1374
MEAN	31.71	57.70	75.74	112.5	111.3	188.1	666.6	878.9	614.2	129.5	66.87	45.80
MAX	74	177	172	221	189	368	1370	1460	1350	243	88	60
MIN	27	37	52	70	78	141	408	381	263	79	52	35
AC-FT	1950	3430	4660	6920	6180	11560	39660	54040	36550	7970	4110	2730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY)

MEAN	79.69	108.5	132.4	194.4	206.4	285.5	551.1	1132	987.8	394.6	143.9	88.17
MAX	346	476	718	1722	917	983	1121	2447	2996	1721	477	239
(WY)	1983	1984	1965	1997	1986	1986	1982	1969	1983	1995	1983	1983
MIN	24.0	32.6	41.4	44.2	43.9	58.7	183	197	135	58.0	33.0	18.0
(WY)	1978	1977	1991	1977	1991	1977	1977	1977	1992	1977	1977	1987

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1960 - 2002	
ANNUAL TOTAL	68577		90630			
ANNUAL MEAN	187.9		248.3		359.1	
HIGHEST ANNUAL MEAN					809	1983
LOWEST ANNUAL MEAN					83.7	1977
HIGHEST DAILY MEAN	1310	May 12	1460	May 18	12500	Jan 2 1997
LOWEST DAILY MEAN	27	Oct 17	27	Oct 17	12	Sep 10 1987
ANNUAL SEVEN-DAY MINIMUM	28	Oct 3	28	Oct 3	12	Sep 7 1987
MAXIMUM PEAK FLOW			1830	Apr 15	18900	Jan 2 1997
MAXIMUM PEAK STAGE			4.56	Apr 15	11.78	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	136000		179800		260200	
10 PERCENT EXCEEDS	544		771		961	
50 PERCENT EXCEEDS	68		91		143	
90 PERCENT EXCEEDS	30		38		51	

e Estimated

10308783 – LEVIATHAN CREEK ABOVE LEVIATHAN MINE NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42'05", long 119°39'20", in SW $^1/_4$ NE $^1/_4$ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on right bank, 2 mi north of Highway 89, and 6.5 mi east of Markleeville.

DRAINAGE AREA.—4.16 mi^2.

PERIOD OF RECORD.—October 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 7,200 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except those below 0.2 ft^3/s and estimated values, which are poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 21 ft^3/s, May 7, 1999, gage height, 4.40 ft, maximum gage height, 4.67 ft, January 7, 2001, backwater from ice; minimum daily, 0.02 ft^3/s, several days in 2001 and 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base discharge of 10 ft^3/s or maximum:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	1445	6.0	4.13				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.09	0.09	0.29	e0.13	e0.09	1.4	0.40	0.24	0.05	0.06	0.06
2	0.03	0.09	0.08	0.29	e0.12	e0.10	1.2	0.36	0.23	0.05	0.09	0.06
3	0.04	0.09	0.07	0.29	e0.11	e0.10	1.2	0.41	0.23	0.05	0.05	0.06
4	0.04	0.09	e0.07	0.29	e0.10	e0.09	1.4	0.36	0.21	0.05	0.05	0.06
5	0.04	0.10	e0.07	0.29	e0.10	e0.09	1.7	0.36	0.20	0.05	0.04	0.06
6	0.04	0.10	e0.07	0.31	e0.10	e0.09	1.6	0.36	0.19	0.05	0.05	0.07
7	0.05	0.10	e0.07	0.30	e0.12	e0.10	1.3	0.40	0.18	0.04	0.05	0.07
8	0.05	0.09	e0.07	e0.25	e0.10	e0.11	1.1	0.33	0.18	0.04	0.04	0.07
9	0.04	0.10	e0.07	e0.25	e0.10	e0.11	1.2	0.32	0.18	0.05	0.05	0.08
10	0.04	0.11	e0.07	e0.22	e0.10	e0.11	1.3	0.35	0.20	0.04	0.05	0.07
11	0.04	0.13	e0.07	e0.22	e0.10	0.35	1.5	0.41	0.18	0.04	0.06	0.06
12	0.04	0.11	e0.07	e0.20	e0.10	0.40	2.4	0.35	0.16	0.06	0.05	0.06
13	0.04	0.12	e0.07	e0.20	e0.10	0.35	3.0	0.35	0.16	0.33	0.04	0.06
14	0.04	0.12	e0.07	e0.18	e0.10	0.33	3.4	0.34	0.15	0.19	0.04	0.06
15	0.04	0.11	e0.07	e0.18	e0.10	e0.29	2.4	0.33	0.13	0.12	0.04	0.05
16	0.03	0.10	e0.07	e0.16	e0.10	e0.19	1.5	0.31	0.12	0.11	0.04	0.06
17	0.03	0.10	e0.07	e0.16	e0.10	e0.18	1.6	0.29	0.12	0.10	0.03	0.06
18	0.03	0.09	e0.07	e0.16	e0.10	e0.16	1.2	0.27	0.11	0.08	0.04	0.07
19	0.04	0.12	e0.07	e0.16	e0.20	e0.26	1.4	0.26	0.11	0.05	0.04	0.06
20	0.04	0.13	e0.12	e0.16	e0.18	0.32	1.5	0.29	0.11	0.05	0.04	0.06
21	0.04	0.15	e0.10	e0.16	e0.16	0.32	1.2	0.29	0.12	0.05	0.05	0.06
22	0.04	0.18	e0.15	e0.16	e0.14	0.35	0.98	0.29	0.10	0.05	0.05	0.06
23	0.04	0.13	0.19	e0.16	e0.12	0.35	0.98	0.29	0.10	0.05	0.05	0.06
24	0.04	0.20	0.23	e0.16	e0.10	0.32	0.87	0.29	0.11	0.04	0.05	0.04
25	0.04	0.19	0.24	e0.16	e0.10	0.33	0.80	0.29	0.08	0.04	0.05	0.05
26	0.04	e0.16	0.21	e0.20	e0.10	0.34	0.92	0.31	0.08	0.04	0.05	0.05
27	0.05	e0.14	0.22	e0.20	e0.10	0.39	0.69	0.31	0.07	0.05	0.05	0.05
28	0.04	0.12	0.22	e0.18	e0.09	0.47	0.60	0.31	0.06	0.05	0.06	0.07
29	0.04	0.08	0.26	e0.16	---	0.59	0.53	0.29	0.06	0.04	0.08	0.08
30	0.07	0.08	0.26	e0.15	---	0.91	0.40	0.30	0.06	0.04	0.08	0.07
31	0.09	---	0.29	e0.14	---	0.95	---	0.25	---	0.03	0.06	---
TOTAL	1.31	3.52	3.85	6.39	3.17	9.14	41.27	10.07	4.23	2.08	1.58	1.85
MEAN	0.042	0.117	0.124	0.206	0.113	0.295	1.376	0.325	0.141	0.067	0.051	0.062
MAX	0.09	0.20	0.29	0.31	0.20	0.95	3.4	0.41	0.24	0.33	0.09	0.08
MIN	0.03	0.08	0.07	0.14	0.09	0.09	0.40	0.25	0.06	0.03	0.03	0.04
AC-FT	2.6	7.0	7.6	13	6.3	18	82	20	8.4	4.1	3.1	3.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

MEAN	0.074	0.130	0.151	0.184	0.165	0.451	1.374	1.740	0.292	0.093	0.057	0.066
MAX	0.11	0.20	0.24	0.27	0.29	0.83	2.56	6.17	0.80	0.19	0.10	0.11
(WY)	2000	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	0.042	0.091	0.080	0.088	0.080	0.29	0.47	0.18	0.079	0.048	0.029	0.031
(WY)	2002	2001	2001	2001	2001	2002	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	48.36		88.46			
ANNUAL MEAN	0.132		0.242		0.202	
HIGHEST ANNUAL MEAN					0.24	2002
LOWEST ANNUAL MEAN					0.13	2001
HIGHEST DAILY MEAN	1.9	Apr 23	3.4	Apr 14	15	May 7 1999
LOWEST DAILY MEAN	0.02	Aug 17	0.03	Oct 2	0.02	Aug 17 2001
ANNUAL SEVEN-DAY MINIMUM	0.02	Aug 24	0.04	Oct 12	0.02	Aug 24 2001
MAXIMUM PEAK FLOW			6.0	Apr 14	21	May 7 1999
MAXIMUM PEAK STAGE			4.13	Apr 14	4.67	Jan 7 2001
ANNUAL RUNOFF (AC-FT)	96		175		146	
10 PERCENT EXCEEDS	0.25		0.40		0.38	
50 PERCENT EXCEEDS	0.08		0.10		0.10	
90 PERCENT EXCEEDS	0.03		0.04		0.04	

e Estimated

10308784 – LEVIATHAN MINE ADIT DRAIN NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42'15", long 119°39'28", in NW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.2 mi north of State Highway 89, and 6.5 mi southeast of Markleeville.

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 7,100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records excellent. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 0.09 ft^3/s, May 15–18, 1999; minimum daily, 0.0219 ft^3/s, February 19 and 20, 2002.

EXTREMES FOR CURRENT YEAR.—Maximum daily discharge, 0.0371 ft^3/s, April 30, and May 1; minimum daily, 0.0219 ft^3/s, February 19 and 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0301	0.0302	0.0308	0.0265	0.0227	0.0234	0.0243	0.0371	0.0339	0.0307	0.0293	0.0276
2	0.0299	0.0302	0.0310	0.0264	0.0227	0.0231	0.0243	0.0367	0.0339	0.0311	0.0294	0.0276
3	0.0299	0.0302	0.0309	0.0266	0.0227	0.0234	0.0244	0.0360	0.0332	0.0306	0.0289	0.0279
4	0.0299	0.0303	0.0307	0.0266	0.0225	0.0230	0.0243	0.0366	0.0332	0.0306	0.0291	0.0282
5	0.0298	0.0302	0.0299	0.0256	0.0225	0.0225	0.0248	0.0363	0.0328	0.0306	0.0288	0.0282
6	0.0305	0.0303	0.0303	0.0252	0.0223	0.0234	0.0251	0.0363	0.0329	0.0302	0.0290	0.0288
7	0.0301	0.0302	0.0309	0.0252	0.0224	0.0236	0.0256	0.0365	0.0331	0.0303	0.0292	0.0287
8	0.0303	0.0308	0.0308	0.0253	0.0220	0.0232	0.0259	0.0362	0.0335	0.0301	0.0285	0.0283
9	0.0306	0.0307	0.0308	0.0251	0.0224	0.0231	0.0268	0.0365	0.0338	0.0298	0.0283	0.0281
10	0.0304	0.0307	0.0309	0.0251	0.0224	0.0228	0.0277	0.0363	0.0335	0.0297	0.0282	0.0283
11	0.0303	0.0302	0.0308	0.0246	0.0221	0.0229	0.0284	0.0359	0.0331	0.0298	0.0283	0.0279
12	0.0307	0.0306	0.0302	0.0244	0.0222	0.0231	0.0288	0.0357	0.0324	0.0298	0.0280	0.0276
13	0.0303	0.0301	0.0309	0.0247	0.0222	0.0235	0.0293	0.0356	0.0326	0.0305	0.0278	0.0276
14	0.0304	0.0302	0.0310	0.0244	0.0223	0.0237	0.0305	0.0354	0.0323	0.0295	0.0279	0.0276
15	0.0301	0.0303	0.0308	0.0243	0.0222	0.0242	0.0317	0.0352	0.0323	0.0296	0.0279	0.0273
16	0.0305	0.0299	0.0305	0.0243	0.0224	0.0238	0.0324	0.0352	0.0324	0.0295	0.0279	0.0279
17	0.0301	0.0304	0.0305	0.0241	0.0226	0.0237	0.0332	0.0346	0.0321	0.0299	0.0278	0.0276
18	0.0303	0.0306	0.0309	0.0238	0.0224	0.0233	0.0338	0.0347	0.0321	0.0301	0.0283	0.0275
19	0.0305	0.0305	0.0308	0.0237	0.0219	0.0230	0.0339	0.0348	0.0325	0.0294	0.0283	0.0275
20	0.0302	0.0307	0.0307	0.0232	0.0219	0.0231	0.0342	0.0358	0.0323	0.0293	0.0288	0.0276
21	0.0303	0.0304	0.0301	0.0227	0.0224	0.0231	0.0342	0.0356	0.0324	0.0294	0.0284	0.0273
22	0.0303	0.0307	0.0298	0.0231	0.0227	0.0237	0.0345	0.0355	0.0316	0.0296	0.0285	0.0270
23	0.0301	0.0311	0.0291	0.0227	0.0227	0.0242	0.0345	0.0349	0.0316	0.0290	0.0281	0.0271
24	0.0304	0.0315	0.0296	0.0222	0.0229	0.0239	0.0352	0.0346	0.0310	0.0286	0.0283	0.0271
25	0.0303	0.0318	0.0287	0.0221	0.0230	0.0238	0.0357	0.0345	0.0311	0.0291	0.0281	0.0272
26	0.0301	0.0320	0.0279	0.0222	0.0234	0.0236	0.0364	0.0343	0.0310	0.0293	0.0278	0.0275
27	0.0304	0.0314	0.0278	0.0227	0.0234	0.0238	0.0365	0.0344	0.0314	0.0294	0.0281	0.0276
28	0.0298	0.0310	0.0280	0.0229	0.0236	0.0241	0.0365	0.0341	0.0308	0.0291	0.0280	0.0279
29	0.0301	0.0310	0.0275	0.0229	---	0.0241	0.0367	0.0337	0.0310	0.0290	0.0279	0.0277
30	0.0301	0.0310	0.0270	0.0229	---	0.0242	0.0371	0.0333	0.0305	0.0285	0.0280	0.0281
31	0.0303	---	0.0267	0.0228	---	0.0246	---	0.0335	---	0.0288	0.0280	---
TOTAL	0.9371	0.9192	0.9263	0.7483	0.6309	0.7289	0.9267	1.0958	0.9703	0.9209	0.8789	0.8323
MEAN	0.030	0.031	0.030	0.024	0.023	0.024	0.031	0.035	0.032	0.030	0.028	0.028
MAX	0.0307	0.0320	0.0310	0.0266	0.0236	0.0246	0.0371	0.0371	0.0339	0.0311	0.0294	0.0288
MIN	0.0298	0.0299	0.0267	0.0221	0.0219	0.0225	0.0243	0.0333	0.0305	0.0285	0.0278	0.0270
AC-FT	1.9	1.8	1.8	1.5	1.3	1.4	1.8	2.2	1.9	1.8	1.7	1.7

10308785 – LEVIATHAN MINE PIT DRAIN NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42'15", long 119°39'28", in NW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.2 mi north of Highway 89 and 6.5 mi southeast of Markleeville.

PERIOD OF RECORD.—September 2000 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 7,100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 0.0035 ft^3/s, Mar. 29, 2001; minimum daily, 0.0004 ft^3/s, several days in 2001 and 2002.

EXTREMES FOR CURRENT YEAR.—Maximum daily discharge, 0.0023 ft^3/s, April 1–3; minimum daily, 0.0004 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0004	0.0004	0.0004	0.0006	0.0007	0.0018	0.0023	0.0014	0.0016	0.0012	0.0009	0.0006
2	0.0004	0.0004	0.0004	0.0006	0.0007	0.0016	0.0023	0.0014	0.0016	0.0012	0.0009	0.0006
3	0.0004	0.0004	0.0004	0.0006	0.0007	0.0015	0.0023	0.0014	0.0016	0.0012	0.0009	0.0006
4	0.0004	0.0004	0.0004	0.0006	0.0007	0.0015	0.0021	0.0014	0.0015	0.0012	0.0009	0.0006
5	0.0004	0.0004	0.0004	0.0006	0.0007	0.0016	0.0021	0.0014	0.0014	0.0011	0.0008	0.0005
6	0.0004	0.0004	0.0004	0.0006	0.0007	0.0017	0.0019	0.0014	0.0015	0.0011	0.0008	0.0005
7	0.0004	0.0004	0.0004	0.0006	0.0008	0.0017	0.0019	0.0015	0.0015	0.0011	0.0008	0.0005
8	0.0004	0.0004	0.0004	0.0007	0.0008	0.0016	0.0018	0.0015	0.0015	0.0010	0.0007	0.0005
9	0.0004	0.0004	0.0005	0.0007	0.0007	0.0014	0.0018	0.0015	0.0015	0.0010	0.0007	0.0005
10	0.0004	0.0004	0.0005	0.0006	0.0007	0.0014	0.0018	0.0015	0.0015	0.0010	0.0007	0.0005
11	0.0004	0.0004	0.0004	0.0006	0.0008	0.0014	0.0018	0.0015	0.0014	0.0010	0.0007	0.0005
12	0.0004	0.0004	0.0004	0.0006	0.0008	0.0014	0.0017	0.0015	0.0014	0.0010	0.0007	0.0005
13	0.0004	0.0004	0.0004	0.0006	0.0008	0.0015	0.0016	0.0015	0.0014	0.0010	0.0007	0.0005
14	0.0004	0.0004	0.0005	0.0006	0.0008	0.0015	0.0017	0.0015	0.0014	0.0010	0.0007	0.0005
15	0.0004	0.0004	0.0004	0.0006	0.0009	0.0015	0.0016	0.0015	0.0014	0.0010	0.0007	0.0005
16	0.0004	0.0004	0.0004	0.0006	0.0009	0.0014	0.0016	0.0015	0.0013	0.0010	0.0007	0.0005
17	0.0004	0.0004	0.0004	0.0006	0.0010	0.0014	0.0016	0.0015	0.0013	0.0010	0.0007	0.0005
18	0.0004	0.0004	0.0004	0.0006	0.0009	0.0014	0.0016	0.0015	0.0014	0.0010	0.0007	0.0005
19	0.0004	0.0004	0.0005	0.0006	0.0009	0.0013	0.0015	0.0016	0.0014	0.0010	0.0007	0.0005
20	0.0004	0.0004	0.0005	0.0006	0.0009	0.0013	0.0015	0.0016	0.0013	0.0009	0.0006	0.0005
21	0.0004	0.0004	0.0005	0.0006	0.0010	0.0014	0.0014	0.0016	0.0012	0.0009	0.0006	0.0005
22	0.0004	0.0004	0.0005	0.0006	0.0011	0.0017	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
23	0.0004	0.0004	0.0004	0.0006	0.0013	0.0018	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
24	0.0004	0.0004	0.0004	0.0006	0.0014	0.0017	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
25	0.0004	0.0004	0.0005	0.0006	0.0014	0.0016	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
26	0.0004	0.0004	0.0005	0.0006	0.0015	0.0016	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
27	0.0004	0.0004	0.0005	0.0006	0.0017	0.0016	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
28	0.0004	0.0004	0.0005	0.0006	0.0017	0.0016	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
29	0.0004	0.0004	0.0005	0.0007	---	0.0016	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
30	0.0004	0.0004	0.0005	0.0007	---	0.0018	0.0014	0.0016	0.0012	0.0009	0.0006	0.0004
31	0.0004	---	0.0005	0.0007	---	0.0022	---	0.0016	---	0.0009	0.0006	---
TOTAL	0.0124	0.0120	0.0138	0.0191	0.0270	0.0485	0.0505	0.0472	0.0409	0.0309	0.0216	0.0145
MEAN	0.000	0.000	0.000	0.001	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.000
MAX	0.0004	0.0004	0.0005	0.0007	0.0017	0.0022	0.0023	0.0016	0.0016	0.0012	0.0009	0.0006
MIN	0.0004	0.0004	0.0004	0.0006	0.0007	0.0013	0.0014	0.0014	0.0012	0.0009	0.0006	0.0004
AC-FT	0.02	0.02	0.03	0.04	0.05	0.1	0.1	0.09	0.08	0.06	0.04	0.03

103087853 – LEVIATHAN MINE POND 1 NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42'15", long 119°39'28", in NW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.2 mi north of State Highway 89, and 6.5 mi east of Markleeville.

PERIOD OF RECORD.—November 1999 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 7,100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum elevation, 7.88 ft, April 19-20, 2000; minimum, 4.34 ft, September 27, 2001.

EXTREMES FOR CURRENT YEAR.—Maximum elevation, 6.73 ft, December 17; minimum, 4.36 ft, October 1, 2, 4

GAGE HEIGHT, FEET , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.36	4.84	5.91	5.03	5.45	5.82	6.48	6.71	6.62	6.33	5.25	5.15
2	4.36	4.86	6.15	5.08	5.47	5.83	6.50	6.71	6.62	6.30	5.30	5.17
3	4.37	4.89	6.24	5.09	5.47	5.84	6.52	6.71	6.61	6.27	5.34	5.31
4	4.36	4.92	6.27	5.11	5.49	5.85	6.54	6.71	6.60	6.26	5.28	5.40
5	4.37	4.94	6.30	5.13	5.49	5.85	6.55	6.71	6.59	6.24	5.27	5.41
6	4.38	4.97	6.34	5.16	5.50	5.96	6.55	6.71	6.58	6.24	5.27	5.32
7	4.37	5.00	6.36	5.17	5.53	6.03	6.56	6.70	6.56	6.21	5.20	5.35
8	4.38	5.02	6.40	5.19	5.54	6.03	6.56	6.70	6.55	6.20	5.14	5.36
9	4.40	5.04	6.44	5.20	5.56	6.03	6.56	6.68	6.53	6.18	5.13	5.22
10	4.38	5.07	6.48	5.21	5.56	6.06	6.56	6.69	6.52	6.13	5.12	5.10
11	4.38	5.11	6.51	5.22	5.57	6.07	6.56	6.69	6.53	6.02	5.12	5.04
12	4.38	5.14	6.54	5.23	5.58	6.08	6.56	6.69	6.51	6.00	5.07	4.94
13	4.39	5.17	6.57	5.24	5.60	6.10	6.56	6.69	6.51	6.05	5.01	4.73
14	4.39	5.19	6.62	5.25	5.61	6.12	6.55	6.68	6.50	6.04	4.97	4.76
15	4.40	5.22	6.65	5.26	5.62	6.13	6.55	6.68	6.48	6.03	4.96	4.78
16	4.41	5.25	6.69	5.27	5.63	6.14	6.55	6.68	6.47	5.99	4.92	4.56
17	4.42	5.28	6.73	5.28	5.67	6.16	6.57	6.68	6.46	5.95	4.91	4.48
18	4.45	5.30	5.77	5.29	5.68	6.17	6.60	6.67	6.45	5.90	4.90	4.48
19	4.48	5.32	4.86	5.29	5.70	6.20	6.63	6.66	6.44	5.86	4.83	4.48
20	4.50	5.37	4.80	5.31	5.72	6.22	6.64	6.67	6.43	5.86	4.77	4.48
21	4.52	5.38	4.81	5.32	5.74	6.22	6.64	6.66	6.43	5.85	4.70	4.48
22	4.55	5.45	4.83	5.33	5.76	6.25	6.64	6.66	6.43	5.75	4.63	4.51
23	4.62	5.48	4.85	5.34	5.76	6.34	6.65	6.65	6.42	5.67	4.55	4.54
24	4.59	5.66	4.85	5.37	5.77	6.35	6.65	6.66	6.41	5.62	4.57	4.75
25	4.63	5.68	4.87	5.37	5.78	6.36	6.65	6.65	6.40	5.54	4.61	4.81
26	4.66	5.71	4.88	5.39	5.80	6.38	6.68	6.65	6.39	5.46	4.64	4.84
27	4.68	5.74	4.89	5.40	5.81	6.40	6.68	6.64	6.38	5.47	4.73	4.70
28	4.71	5.77	4.93	5.41	5.81	6.41	6.68	6.66	6.37	5.45	4.79	4.51
29	4.74	5.83	4.96	5.43	---	6.43	6.69	6.66	6.35	5.36	4.93	4.50
30	4.79	5.86	4.99	5.43	---	6.45	6.70	6.64	6.33	5.30	5.11	4.50
31	4.81	---	5.01	5.45	---	6.47	---	6.63	---	5.24	5.14	---
MEAN	4.49	5.28	5.76	5.27	5.63	6.15	6.59	6.68	6.48	5.90	4.97	4.86
MAX	4.81	5.86	6.73	5.45	5.81	6.47	6.70	6.71	6.62	6.33	5.34	5.41
MIN	4.36	4.84	4.80	5.03	5.45	5.82	6.48	6.63	6.33	5.24	4.55	4.48

CAL YR 2001 MEAN 5.32 MAX 6.73 MIN 4.34
WTR YR 2002 MEAN 5.67 MAX 6.73 MIN 4.36

103087885 – LEVIATHAN CREEK CHANNEL UNDERDRAIN NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42'34", long 119°39'41", in SE $^1/_4$ SW $^1/_4$ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.9 mi north of State Highway 89, and 6.5 mi east of Markleeville.

PERIOD OF RECORD.—November 1999 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,800 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 0.09 ft^3/s, April 20-21, 2000; minimum, no flow on many days in most years.

EXTREMES FOR CURRENT YEAR.—Maximum daily discharge, 0.0887 ft^3/s, April 11; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0296	0.0277	0.0311	0.0349	0.0424	0.0437	0.0578	0.0762	0.0624	0.0000	0.0000	0.0000
2	0.0308	0.0277	0.0313	0.0349	0.0420	0.0432	0.0583	0.0770	0.0503	0.0000	0.0000	0.0000
3	0.0296	0.0278	0.0311	0.0359	0.0419	0.0432	0.0620	0.0774	0.0511	0.0000	0.0000	0.0000
4	0.0290	0.0278	0.0312	0.0373	0.0419	0.0432	0.0630	0.0770	0.0515	0.0000	0.0000	0.0000
5	0.0285	0.0275	0.0311	0.0355	0.0416	0.0432	0.0642	0.0750	0.0525	0.0065	0.0000	0.0000
6	0.0282	0.0277	0.0311	0.0372	0.0415	0.0433	0.0748	0.0741	0.0525	0.0000	0.0000	0.0000
7	0.0284	0.0277	0.0310	0.0378	0.0417	0.0453	0.0775	0.0735	0.0524	0.0000	0.0000	0.0000
8	0.0282	0.0277	0.0305	0.0389	0.0416	0.0460	0.0811	0.0727	0.0502	0.0000	0.0000	0.0000
9	0.0279	0.0278	0.0300	0.0389	0.0412	0.0439	0.0817	0.0720	e0.0500	0.0000	0.0000	0.0000
10	0.0280	0.0276	0.0306	0.0389	0.0411	0.0462	0.0858	0.0718	e0.0500	0.0000	0.0000	0.0000
11	0.0279	0.0277	0.0310	0.0389	0.0411	0.0453	0.0887	0.0716	e0.0500	0.0000	0.0000	0.0000
12	0.0278	0.0278	0.0311	0.0392	0.0409	0.0467	0.0857	0.0707	e0.0500	0.0000	0.0000	0.0000
13	0.0277	0.0282	0.0311	0.0414	0.0406	0.0477	0.0792	0.0707	e0.0500	0.0007	0.0000	0.0000
14	0.0277	0.0282	0.0311	0.0416	0.0406	0.0478	0.0772	0.0708	0.0499	0.0000	0.0000	0.0000
15	0.0277	0.0282	0.0317	0.0429	0.0406	0.0478	0.0750	0.0704	0.0496	0.0000	0.0000	0.0000
16	0.0276	0.0284	0.0313	0.0427	0.0403	0.0480	0.0757	0.0698	0.0495	0.0000	0.0000	0.0000
17	0.0276	0.0285	0.0316	0.0430	0.0402	0.0485	0.0755	0.0698	0.0495	0.0000	0.0000	0.0000
18	0.0276	0.0281	0.0321	0.0428	0.0402	0.0479	0.0750	0.0696	0.0491	0.0000	0.0000	0.0000
19	0.0276	0.0287	0.0314	0.0425	0.0401	0.0476	0.0763	0.0682	0.0486	0.0000	0.0000	0.0000
20	0.0277	0.0289	0.0312	0.0429	0.0398	0.0478	0.0758	0.0669	0.0484	0.0000	0.0000	0.0000
21	0.0277	0.0296	0.0336	0.0427	0.0398	0.0473	0.0768	e0.0669	0.0484	0.0000	0.0000	0.0000
22	0.0276	0.0288	0.0332	0.0432	0.0400	0.0478	0.0776	e0.0663	0.0484	0.0000	0.0000	0.0000
23	0.0275	0.0291	0.0337	0.0432	0.0424	0.0480	0.0788	0.0663	0.0483	0.0000	0.0000	0.0000
24	0.0276	0.0298	0.0346	0.0428	0.0437	0.0497	0.0827	0.0659	0.0467	0.0000	0.0000	0.0000
25	0.0276	0.0311	0.0336	0.0428	0.0437	0.0512	0.0825	0.0653	0.0421	0.0000	0.0000	0.0000
26	0.0276	0.0311	0.0316	0.0429	0.0435	0.0523	0.0814	0.0652	0.0254	0.0000	0.0000	0.0000
27	0.0277	0.0311	0.0323	0.0428	0.0434	0.0526	0.0814	0.0646	0.0000	0.0000	0.0000	0.0000
28	0.0276	0.0309	0.0334	0.0428	0.0445	0.0527	0.0814	0.0637	0.0000	0.0000	0.0000	0.0000
29	0.0278	0.0311	0.0339	0.0427	---	0.0541	0.0793	0.0635	0.0000	0.0000	0.0000	0.0000
30	0.0277	0.0311	0.0347	0.0424	---	0.0577	0.0759	0.0630	0.0000	0.0000	0.0000	0.0000
31	0.0277	---	0.0349	0.0424	---	0.0578	---	0.0631	---	0.0000	0.0000	---
TOTAL	0.8692	0.8634	0.9921	1.2588	1.1623	1.4875	2.2881	2.1590	1.2768	0.0072	0.0000	0.0000
MEAN	0.028	0.029	0.032	0.041	0.042	0.048	0.076	0.070	0.043	0.000	0.000	0.000
MAX	0.0308	0.0311	0.0349	0.0432	0.0445	0.0578	0.0887	0.0774	0.0624	0.0065	0.0000	0.0000
MIN	0.0275	0.0275	0.0300	0.0349	0.0398	0.0432	0.0578	0.0630	0.0000	0.0000	0.0000	0.0000
AC-FT	1.7	1.7	2.0	2.5	2.3	3.0	4.5	4.3	2.5	0.01	0.00	0.0000

e Estimated

103087887 – LEVIATHAN MINE POND 4 NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°42’34", long 119°39’41", in SE $^{1}/_{4}$ SW $^{1}/_{4}$ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.9 mi north of State Highway 89, and 6.5 mi east of Markleeville.

PERIOD OF RECORD.—October 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,800 ft above NGVD of 1929, from topographic map.

REMARKS.—Records excellent. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 0.3431 ft^3/s, February 10, 1999; no flow on many days in each year.

EXTREMES FOR CURRENT YEAR.—There was no flow during the entire year.

10308789 – LEVIATHAN CREEK ABOVE ASPEN CREEK, NEAR MARKLEEVILLE, CA

LOCATION (REVISED).—Lat 38°43'01", long 119°39'33", in NE $^1/_4$ NW $^1/_4$ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on right bank, 3.2 mi north of State Highway 89, and 6.5 mi east of Markleeville.

DRAINAGE AREA.—7.07 mi^2.

PERIOD OF RECORD.—October 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,700 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except those below 0.5 ft^3/s, which are poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 24 ft^3/s, April 28, 1999, gage height, 5.14 ft; no flow on several days in August 2001, July 11, September 2, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 10 ft^3/s or maximum:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 4	1800	7.50	4.66				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.16	e0.20	e0.42	e0.21	e0.55	2.4	1.3	0.40	0.07	e0.27	0.01
2	0.13	0.16	e0.20	e0.44	e0.17	e0.55	2.6	1.2	0.38	0.07	e0.16	0.00
3	0.10	0.17	e0.20	e0.43	e0.16	e0.54	2.8	1.1	0.38	0.07	e0.10	0.04
4	0.04	0.17	e0.20	e0.42	e0.16	e0.52	3.5	1.1	0.38	0.06	e0.08	0.18
5	0.03	0.18	e0.20	e0.42	e0.15	0.50	3.2	1.0	0.37	0.06	e0.07	0.22
6	0.04	0.18	e0.20	e0.44	e0.15	e0.49	2.8	0.98	0.36	0.05	e0.08	0.28
7	0.04	0.19	e0.20	e0.41	e0.13	e0.48	2.6	0.96	0.35	0.04	e0.08	0.15
8	0.04	0.18	e0.20	e0.37	e0.13	e0.48	2.7	0.91	0.35	0.03	e0.07	0.06
9	0.05	0.17	e0.20	e0.37	e0.14	e0.45	2.8	0.89	0.35	0.02	e0.07	0.12
10	0.06	0.19	e0.20	e0.35	e0.14	0.44	2.8	0.85	0.35	0.01	e0.06	0.18
11	0.05	0.22	e0.20	e0.36	e0.14	0.77	2.9	0.88	0.35	0.00	e0.09	0.09
12	0.05	0.22	e0.20	e0.34	e0.15	1.2	e2.8	0.83	0.35	0.11	e0.16	0.09
13	0.06	0.22	e0.20	e0.34	e0.14	e1.2	2.7	0.81	0.38	0.61	e0.33	0.08
14	0.06	0.22	e0.20	e0.33	e0.14	e1.1	3.0	0.79	0.37	0.25	e0.24	0.03
15	0.06	0.21	e0.20	e0.31	e0.15	e1.0	2.2	0.76	0.36	0.21	e0.23	0.02
16	0.06	0.21	e0.20	e0.28	e0.14	0.74	1.6	0.72	e0.30	0.05	e0.14	0.06
17	0.06	0.21	e0.20	e0.28	e0.15	0.63	1.6	0.69	e0.28	0.05	e0.06	0.16
18	0.07	0.19	e0.20	e0.28	e0.21	0.52	1.5	0.67	e0.27	0.09	e0.07	0.16
19	0.08	0.20	e0.25	e0.28	e0.73	0.66	1.3	0.61	e0.26	0.06	e0.07	0.16
20	0.08	0.21	0.37	e0.28	e0.63	0.70	1.5	0.71	e0.26	0.05	e0.09	0.16
21	0.08	0.24	0.36	e0.28	e0.62	0.88	1.6	0.64	e0.27	0.05	e0.08	0.04
22	0.10	0.37	0.33	e0.28	e0.62	0.92	1.4	0.65	e0.25	0.06	e0.07	0.03
23	0.10	0.24	0.34	e0.28	e0.59	e0.80	1.3	0.64	e0.21	0.21	e0.09	0.12
24	0.11	0.75	0.39	e0.28	e0.59	0.55	1.2	0.63	e0.19	0.58	e0.07	0.29
25	0.12	0.33	0.39	e0.28	e0.59	e0.90	1.3	0.62	e0.17	0.45	e0.06	0.24
26	0.12	0.28	0.37	e0.28	e0.56	0.98	1.7	0.59	e0.13	0.52	e0.07	0.14
27	0.12	e0.25	0.39	e0.30	e0.55	1.3	1.5	0.57	0.08	e0.23	e0.10	0.08
28	0.14	e0.20	0.40	e0.28	e0.53	1.3	1.3	0.50	0.07	e0.08	0.15	0.05
29	0.14	e0.20	e0.44	e0.27	---	1.7	1.4	0.44	0.07	e0.17	0.17	0.05
30	0.20	e0.20	e0.41	e0.25	---	2.1	1.3	0.42	0.07	e0.19	0.08	0.07
31	0.19	---	e0.42	e0.23	---	2.1	---	0.42	---	e0.22	0.03	---
TOTAL	2.63	6.92	8.46	10.16	8.77	27.05	63.3	23.88	8.36	4.72	3.49	3.36
MEAN	0.085	0.231	0.273	0.328	0.313	0.873	2.110	0.770	0.279	0.152	0.113	0.112
MAX	0.20	0.75	0.44	0.44	0.73	2.1	3.5	1.3	0.40	0.61	0.33	0.29
MIN	0.03	0.16	0.20	0.23	0.13	0.44	1.2	0.42	0.07	0.00	0.03	0.00
AC-FT	5.2	14	17	20	17	54	126	47	17	9.4	6.9	6.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

MEAN	0.192	0.237	0.255	0.308	0.513	1.122	2.692	2.882	0.725	0.249	0.180	0.206
MAX	0.34	0.36	0.39	0.47	1.10	1.74	5.38	9.69	2.18	0.56	0.31	0.46
(WY)	2000	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	0.085	0.16	0.16	0.16	0.20	0.71	1.30	0.48	0.12	0.069	0.039	0.090
(WY)	2002	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	114.23		171.10			
ANNUAL MEAN	0.313		0.469		0.427	
HIGHEST ANNUAL MEAN					0.51	2000
LOWEST ANNUAL MEAN					0.30	2001
HIGHEST DAILY MEAN	3.6	Apr 23	3.5	Apr 4	17	May 7 1999
LOWEST DAILY MEAN	0.00	Aug 5	0.00	Jul 11	0.00	Aug 5 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 5	0.03	Jul 5	0.00	Aug 5 2001
MAXIMUM PEAK FLOW			7.5	Apr 4	24	Apr 28 1999
MAXIMUM PEAK STAGE			4.66	Apr 4	5.14	Apr 28 1999
ANNUAL RUNOFF (AC-FT)	227		339		310	
10 PERCENT EXCEEDS	0.85		1.2		1.1	
50 PERCENT EXCEEDS	0.18		0.24		0.21	
90 PERCENT EXCEEDS	0.04		0.06		0.07	

e Estimated

CARSON RIVER BASIN

103087892 – ASPEN CREEK OVERBURDEN SEEP NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°43'45", long 119°39'11", in NE $^{1}/_{4}$ SE $^{1}/_{4}$ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.8 mi north of State Highway 89, and 2.1 mi east of Markleeville.

PERIOD OF RECORD.—November 1998 to current year (low-flow records only).

GAGE.—Water-stage recorder. Elevation of gage is 7,100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records poor, including estimated daily discharges. Records not computed above 0.38 ft^3/s. No record Sept. 11–30. The site was shut down during construction of treatment ponds.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.0179	0.0349	e0.0796	0.0308	0.0225	0.0322	0.0209	0.0452	0.0415	0.0158	e0.0182	0.0187
2	0.0163	0.0355	e0.0759	0.0351	0.0221	0.0339	0.0215	0.0441	0.0404	0.0157	e0.0182	0.0188
3	0.0148	0.0364	e0.0703	0.0361	0.0215	0.0348	0.0223	0.0435	0.0399	0.0154	e0.0182	e0.0188
4	0.0139	0.0374	e0.0684	0.0366	0.0206	0.0354	0.0236	0.0435	0.0395	0.0152	e0.0182	e0.0188
5	0.0137	0.0377	e0.0628	0.0373	0.0199	0.0361	0.0258	0.0443	0.0391	0.0149	e0.0182	e0.0188
6	0.0131	0.0425	e0.0571	0.0386	0.0193	0.0386	0.0258	0.0450	0.0397	0.0150	e0.0182	e0.0188
7	0.0115	0.0490	e0.0515	0.0369	0.0235	0.0355	0.0253	0.0446	0.0382	0.0156	e0.0182	e0.0188
8	0.0118	0.0514	e0.0478	0.0359	0.0322	0.0329	0.0248	0.0456	0.0381	0.0160	e0.0184	e0.0188
9	0.0105	0.0542	e0.0440	0.0363	0.0318	0.0328	0.0253	0.0460	0.0381	0.0163	e0.0184	e0.0188
10	0.0106	0.0543	e0.0403	0.0356	0.0317	0.0325	0.0267	0.0456	0.0379	0.0166	e0.0184	e0.0188
11	0.0125	0.0550	e0.0403	0.0358	0.0322	0.0319	0.0263	0.0454	0.0379	0.0171	e0.0184	---
12	0.0107	0.0595	e0.0384	0.0366	0.0319	0.0330	0.0259	0.0436	0.0371	0.0178	e0.0184	---
13	0.0107	0.0663	e0.0384	0.0390	0.0312	0.0313	0.0241	0.0427	0.0368	0.0239	e0.0184	---
14	0.0116	0.0710	e0.0365	0.0371	0.0317	0.0281	0.0234	0.0425	e0.0367	0.0138	e0.0184	---
15	0.0124	0.0712	e0.0365	0.0336	0.0330	0.0274	0.0241	0.0416	e0.0366	0.0135	e0.0184	---
16	0.0163	0.0738	e0.0365	0.0347	0.0323	0.0257	0.0243	0.0413	e0.0365	0.0137	e0.0186	---
17	0.0151	0.0809	e0.0347	0.0347	0.0318	0.0237	0.0246	0.0408	e0.0364	0.0147	e0.0186	---
18	0.0166	0.0866	e0.0309	0.0333	0.0307	0.0220	0.0226	0.0403	e0.0363	0.0151	e0.0186	---
19	0.0167	0.0900	0.0296	0.0303	0.0322	0.0223	0.0220	0.0402	0.0361	0.0154	e0.0186	---
20	0.0165	e0.0900	0.0295	0.0279	0.0330	0.0207	0.0220	0.0448	0.0354	0.0159	e0.0186	---
21	0.0166	e0.0860	0.0283	0.0254	0.0327	0.0213	0.0204	0.0455	0.0352	0.0161	e0.0186	---
22	0.0162	e0.0820	0.0272	0.0240	0.0337	0.0206	0.0206	0.0448	0.0343	0.0162	e0.0186	---
23	0.0165	e0.0800	0.0262	0.0229	0.0369	0.0209	0.0226	0.0458	0.0340	0.0170	e0.0186	---
24	0.0174	e0.0800	0.0266	e0.0230	0.0392	0.0197	0.0274	0.0489	e0.0319	e0.0180	e0.0188	---
25	0.0176	0.0790	0.0264	0.0217	0.0420	0.0199	0.0330	0.0491	e0.0277	e0.0180	e0.0188	---
26	0.0175	0.0803	0.0258	0.0236	0.0434	0.0198	0.0330	0.0478	e0.0235	e0.0180	e0.0188	---
27	0.0189	e0.0800	0.0265	0.0212	0.0338	0.0190	0.0336	0.0462	e0.0193	e0.0180	e0.0188	---
28	0.0229	e0.0800	0.0274	0.0201	0.0329	0.0189	0.0400	0.0435	0.0172	e0.0180	0.0192	---
29	e0.0365	e0.0800	0.0284	0.0198	---	0.0198	0.0441	0.0423	0.0167	e0.0180	0.0191	---
30	0.0366	e0.0800	0.0289	0.0204	---	0.0200	0.0456	0.0464	0.0163	e0.0180	0.0190	---
31	0.0338	---	0.0314	0.0220	---	0.0207	---	0.0431	---	e0.0182	0.0189	---
TOTAL	0.5237	1.9849	1.2521	0.9463	0.8597	0.8314	0.8016	1.3740	1.0143	0.5109	0.5748	---
MEAN	0.017	0.066	0.040	0.031	0.031	0.027	0.027	0.044	0.034	0.016	0.019	---
MAX	0.0366	0.0900	0.0796	0.0390	0.0434	0.0386	0.0456	0.0491	0.0415	0.0239	0.0192	---
MIN	0.0105	0.0349	0.0258	0.0198	0.0193	0.0189	0.0204	0.0402	0.0163	0.0135	0.0182	---
AC-FT	1.0	3.9	2.5	1.9	1.7	1.6	1.6	2.7	2.0	1.0	1.1	---

e Estimated

10308794 – BRYANT CREEK BELOW CONFLUENCE, NEAR MARKLEEVILLE, CA

LOCATION.—Lat 38°44'12", long 119°38'39", in SW $^1/_4$ SW $^1/_4$ sec.2, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on left bank, 4.4 mi north of State Highway 89, and 7.5 mi northeast of Markleeville.

DRAINAGE AREA.—12.36 mi^2.

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,300 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good including estimated daily discharges. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 44 ft^3/s, April 19, 1999, gage height, 5.35 ft, maximum gage height, 7.39 ft, November 12, 2000, backwater from ice; minimum daily, 0.62 ft^3/s, August 17, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 40 ft^3/s or maximum:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 9	0830	Unknown	a7.36	Apr 4	1830	14	4.81

a Backwater from ice

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.4	e1.7	2.5	2.0	2.4	7.3	3.0	2.0	0.95	1.1	0.70
2	1.5	1.4	e1.7	3.0	1.9	2.6	8.1	2.9	2.0	0.95	1.0	0.67
3	1.5	1.4	e1.7	3.0	1.9	3.4	8.7	2.9	2.0	0.94	0.86	0.67
4	1.3	1.4	e1.7	2.7	1.8	2.7	9.5	2.8	1.9	0.94	0.80	1.0
5	e1.2	1.4	e1.7	2.7	1.8	2.2	8.7	2.7	1.8	0.91	0.80	1.0
6	e1.2	1.4	e1.7	4.2	1.9	2.5	8.0	2.6	1.7	0.90	0.80	1.1
7	e1.2	1.4	e1.7	4.0	1.9	2.4	7.6	2.6	1.7	0.86	0.80	1.0
8	e1.2	1.4	e1.7	3.4	1.9	3.1	7.5	2.5	1.7	0.85	0.77	0.81
9	e1.2	1.4	e1.7	3.0	1.8	e4.0	7.9	2.5	1.7	0.81	0.73	0.82
10	e1.2	1.5	e1.7	2.7	1.8	2.5	7.7	2.5	1.7	0.76	0.71	0.95
11	e1.2	1.6	e1.6	2.6	1.9	3.1	7.7	2.4	1.7	0.75	0.69	0.79
12	e1.2	1.5	e1.6	2.6	2.0	5.3	7.4	2.4	1.6	0.83	0.75	0.77
13	e1.2	1.5	e1.6	2.4	2.0	3.4	6.9	2.3	1.6	2.1	1.0	0.75
14	e1.2	1.5	e1.6	2.6	2.1	2.9	7.1	2.3	1.5	1.2	0.86	0.68
15	e1.2	1.5	e1.6	1.9	2.1	e3.1	6.2	2.3	1.4	1.1	0.92	0.64
16	e1.2	1.4	e1.6	e1.8	2.1	e3.1	4.9	2.3	1.3	0.81	0.74	0.70
17	e1.2	1.5	e1.6	e1.8	2.0	2.9	4.9	2.2	1.3	1.0	0.62	0.86
18	e1.2	1.5	e1.6	e1.8	2.0	2.5	4.3	2.2	1.3	1.2	0.62	0.93
19	e1.2	1.5	e1.6	e1.8	2.2	2.7	4.2	2.2	1.3	1.0	0.65	0.93
20	e1.2	1.5	e1.8	e1.8	2.9	2.8	4.4	2.4	1.3	0.93	0.77	0.91
21	e1.2	1.7	e2.0	e1.8	2.9	3.6	4.5	2.3	1.4	0.94	0.72	0.74
22	1.2	2.3	2.3	e1.8	3.2	3.6	3.9	2.3	1.4	0.87	0.69	0.70
23	1.4	1.7	2.3	1.8	2.7	3.7	3.7	2.3	1.3	1.0	0.81	0.77
24	1.4	3.5	2.2	e1.8	2.4	3.4	3.5	2.2	1.2	1.1	0.70	1.0
25	1.3	1.5	2.3	e1.9	2.3	3.8	3.4	2.1	1.2	1.0	0.65	0.96
26	1.3	1.5	2.4	e1.9	2.4	4.5	4.2	2.1	1.2	1.3	0.69	0.87
27	1.3	1.7	2.4	e1.9	2.4	4.7	3.7	2.1	1.1	1.00	0.87	0.82
28	1.4	e1.7	2.4	2.0	2.5	5.0	3.3	2.0	1.1	0.77	0.90	0.84
29	1.4	e1.7	2.8	2.0	---	5.9	3.4	2.0	1.0	0.89	1.0	0.86
30	1.7	e1.7	2.5	1.9	---	6.6	3.3	1.9	0.98	0.95	0.78	0.90
31	1.5	---	3.0	1.9	---	6.9	---	1.9	---	0.93	0.75	---
TOTAL	39.8	48.1	59.8	73.0	60.8	111.3	175.9	73.2	44.38	30.54	24.55	25.14
MEAN	1.284	1.603	1.929	2.355	2.171	3.590	5.863	2.361	1.479	0.985	0.792	0.838
MAX	1.7	3.5	3.0	4.2	3.2	6.9	9.5	3.0	2.0	2.1	1.1	1.1
MIN	1.2	1.4	1.6	1.8	1.8	2.2	3.3	1.9	0.98	0.75	0.62	0.64
AC-FT	79	95	119	145	121	221	349	145	88	61	49	50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.775	1.998	2.162	2.575	3.149	4.787	7.702	6.608	2.602	1.479	1.398	1.614
MAX	2.47	2.59	2.48	3.26	4.78	6.94	15.6	19.2	6.12	2.61	2.53	2.66
(WY)	2000	2000	2000	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	1.28	1.60	1.85	1.77	2.06	3.53	4.03	1.91	1.09	0.99	0.79	0.84
(WY)	2002	2002	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1999 - 2002	
ANNUAL TOTAL	677.98		766.51			
ANNUAL MEAN	1.857		2.100		2.261	
HIGHEST ANNUAL MEAN					2.79	2000
LOWEST ANNUAL MEAN					1.89	2001
HIGHEST DAILY MEAN	9.1	Apr 23	9.5	Apr 4	29	Apr 21 1999
LOWEST DAILY MEAN	0.74	Aug 2	0.62	Aug 17	0.62	Aug 17 2002
ANNUAL SEVEN-DAY MINIMUM	0.79	Aug 1	0.69	Aug 16	0.69	Aug 16 2002
MAXIMUM PEAK FLOW			14	Apr 4	44	Apr 19 1999
MAXIMUM PEAK STAGE			a7.36	Mar 9	7.39	Nov 12 2000
ANNUAL RUNOFF (AC-FT)	1340		1520		1640	
10 PERCENT EXCEEDS	3.0		3.7		3.9	
50 PERCENT EXCEEDS	1.6		1.7		1.9	
90 PERCENT EXCEEDS	0.93		0.81		0.95	

e Estimated
a Backwater from ice.

10308800 BRYANT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°47'38", long 119°40'18", in NE $^1/_4$ NW $^1/_4$ sec.30, T.11 N., R.21 E., Douglas County, Hydrologic Unit 16050201, on right bank, 500 ft upstream from Doud Springs, 1.7 mi upstream from mouth, and 11 mi southeast of Gardnerville.

DRAINAGE AREA.--31.5 mi^2.

PERIOD OF RECORD.--May 1961 to September 1969, October 1977 to September 1980, April 1994 to current year; October 1969 to September 1973 (annual maximum).

GAGE.--Water-stage recorder. Datum of gage is 5,445.91 ft above NGVD of 1929. Prior to July 22, 1963, at same site at datum 0.04 ft higher. Prior to April 1994 at site 50 ft downstream at datum 3.79 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversions above station. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,360 ft^3/s, January 2, 1997, gage height, 8.70 ft; minimum daily, 1.4 ft^3/s, December 25, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 2	1930	*15	*5.26				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.7	2.6	3.3	e3.7	e3.6	9.4	4.9	3.8	1.9	2.1	1.9
2	2.1	2.7	3.5	3.4	e3.6	e3.6	9.8	4.7	3.8	1.8	2.1	1.8
3	2.2	2.7	2.0	4.1	e3.5	e3.6	8.8	4.5	3.7	1.8	2.0	1.8
4	2.0	2.7	2.3	3.1	e3.4	e3.6	9.8	4.4	3.5	1.7	1.8	2.0
5	2.0	2.7	2.8	3.7	e3.3	3.6	9.5	4.3	3.3	1.7	1.7	2.1
6	2.0	2.7	3.1	4.5	e3.3	4.1	8.5	4.2	3.2	1.7	1.8	2.1
7	2.1	2.7	3.0	4.8	3.2	4.0	7.8	4.2	3.1	1.6	1.8	2.1
8	2.1	2.7	2.8	4.5	3.2	3.4	7.7	4.1	3.1	1.6	1.8	1.9
9	2.6	2.7	3.0	4.2	e3.2	3.9	7.9	4.1	3.2	1.6	1.7	1.8
10	2.8	2.8	2.9	3.9	e3.2	4.1	7.7	4.0	3.3	1.5	1.6	2.0
11	2.9	2.8	2.8	3.6	3.2	4.4	7.6	4.0	3.2	1.5	1.6	1.9
12	2.8	2.8	2.7	3.8	3.1	6.3	7.4	3.9	3.1	1.6	1.6	1.8
13	2.7	2.8	2.7	3.2	3.1	5.4	6.8	3.8	2.9	2.6	1.9	1.8
14	2.7	2.8	2.8	3.3	3.2	3.9	6.9	3.8	2.8	3.0	1.8	1.8
15	2.5	2.8	e2.7	2.6	3.3	e3.9	6.6	3.7	2.8	2.3	1.8	1.7
16	2.5	2.8	2.7	2.7	3.3	e4.0	5.5	3.6	2.7	1.9	1.7	1.9
17	2.4	2.8	3.0	2.8	3.4	4.0	5.6	3.5	2.6	2.1	1.5	2.0
18	2.7	2.8	2.7	e2.9	3.2	e3.9	5.1	3.4	2.6	2.5	1.5	2.1
19	3.0	2.8	2.7	3.0	3.3	3.8	5.1	3.4	2.5	2.2	1.6	2.2
20	3.0	2.8	2.9	3.2	4.0	4.3	5.2	4.5	2.5	2.0	1.7	2.2
21	3.0	2.9	2.7	3.6	4.1	4.7	5.7	4.6	2.7	2.0	1.8	2.1
22	3.0	3.5	2.8	3.3	4.3	5.2	5.3	4.5	2.6	1.9	1.8	2.0
23	3.0	3.0	2.8	e3.3	4.3	5.4	5.0	4.5	2.4	1.9	1.9	2.0
24	3.0	4.5	2.6	e3.4	3.9	5.1	4.9	4.3	2.3	1.9	1.8	2.2
25	2.9	2.7	2.4	3.5	3.8	5.2	4.9	4.2	2.3	1.9	1.8	2.2
26	2.8	2.2	2.9	3.5	3.7	6.0	5.7	4.2	2.3	2.0	1.8	2.3
27	2.8	2.5	3.0	3.3	3.9	6.4	5.4	4.1	2.1	2.0	2.0	2.3
28	2.7	2.6	3.0	2.9	3.6	6.7	5.0	4.0	2.1	1.6	2.0	2.3
29	2.7	2.8	3.2	e4.0	---	7.4	5.2	3.9	2.0	1.6	2.1	2.4
30	2.7	2.5	3.2	e3.9	---	8.4	5.1	3.8	1.9	1.8	2.0	2.4
31	2.9	---	3.5	e3.8	---	9.0	---	3.7	---	1.7	1.9	---
TOTAL	80.5	84.3	87.8	109.1	98.3	150.9	200.9	126.8	84.4	58.9	56.0	61.1
MEAN	2.597	2.810	2.832	3.519	3.511	4.868	6.697	4.090	2.813	1.900	1.806	2.037
MAX	3.0	4.5	3.5	4.8	4.3	9.0	9.8	4.9	3.8	3.0	2.1	2.4
MIN	1.9	2.2	2.0	2.6	3.1	3.4	4.9	3.4	1.9	1.5	1.5	1.7
AC-FT	160	167	174	216	195	299	398	252	167	117	111	121

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	3.226	3.516	4.013	8.721	7.386	14.49	19.43	21.50	9.006	3.992	3.086	3.159
MAX	4.43	4.62	10.7	59.1	21.2	52.0	71.8	71.5	33.9	9.16	5.59	5.05
(WY)	1999	1999	1997	1997	1996	1995	1969	1969	1995	1969	1969	1969
MIN	2.32	2.15	2.25	2.23	3.06	4.32	5.75	3.46	2.09	1.83	1.73	1.84
(WY)	1962	1962	1962	1962	1964	1964	2001	2001	2001	1961	1994	1961

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	1126.4		1199.0			
ANNUAL MEAN	3.086		3.285		8.638	
HIGHEST ANNUAL MEAN					20.0	1969
LOWEST ANNUAL MEAN					3.22	2001
HIGHEST DAILY MEAN	11	Apr 23	9.8	Apr 2	600	Jan 2 1997
LOWEST DAILY MEAN	1.6	Jul 26	1.5	Jul 10	1.4	Dec 25 1962
ANNUAL SEVEN-DAY MINIMUM	1.7	Jul 24	1.6	Jul 6	1.6	Sep 7 1961
MAXIMUM PEAK FLOW			15	Apr 2	1360	Jan 2 1997
MAXIMUM PEAK STAGE			5.26	Apr 2	8.70	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	2230		2380		6260	
10 PERCENT EXCEEDS	4.7		5.1		18	
50 PERCENT EXCEEDS	2.8		2.9		4.1	
90 PERCENT EXCEEDS	1.8		1.8		2.5	

e Estimated

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'42", long 119°42'13", in NW $^1/_4$ SE $^1/_4$ sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank, at lower end of Horseshoe Bend, 2 mi east of Mud Lake Reservoir, 4.5 mi downstream from Bryant Creek, 7 mi southeast of Gardnerville, and at mi 99.90 upstream from Lahontan Dam.

DRAINAGE AREA.--356 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1890 to December 1893, October 1900 to December 1906 (gage heights only August to December 1904 and July 1905 to December 1906), January 1908 to December 1910, June to October 1917, December 1924 to September 1928, June to September 1929, October 1935 to December 1937, and May 1939 to current year.

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,987.68 ft above NGVD of 1929. Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums. Prior to July 20, 2001, at site 300 ft downstream and 2.57 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft^3/s, January 2, 1997, gage height, 13.00 ft; minimum daily, 11 ft^3/s, September 4, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 15	0130	*1790	*6.09	May 31	0330	1520	5.80
May 19	0100	1690	5.99				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	64	69	144	e96	172	378	430	1320	262	99	67
2	47	57	111	e146	e96	153	429	412	1140	249	103	66
3	47	56	91	186	e96	147	505	451	952	236	101	63
4	47	54	76	134	e96	156	637	592	938	219	96	62
5	46	52	87	124	96	156	741	733	e1000	204	87	67
6	46	46	72	160	102	176	679	865	e920	192	84	69
7	46	48	77	216	91	196	618	982	912	183	83	77
8	43	47	92	190	96	148	636	943	865	172	100	71
9	41	46	80	170	85	159	694	905	733	171	102	68
10	43	46	79	151	87	171	730	881	602	166	97	66
11	43	48	75	134	90	164	816	699	565	155	78	72
12	44	52	73	136	90	193	942	717	549	156	80	68
13	45	57	73	126	91	216	963	820	565	164	73	61
14	45	50	74	122	94	180	1160	990	596	155	76	59
15	44	50	76	125	96	147	1420	1060	552	144	76	57
16	44	49	e75	111	97	155	845	1170	527	131	77	56
17	44	48	e75	e111	107	150	669	1220	499	123	75	56
18	44	46	74	e110	96	143	560	1440	500	130	71	55
19	46	45	83	110	99	136	501	1370	521	139	68	55
20	46	44	78	e108	121	158	455	1110	484	121	63	55
21	45	45	80	e101	138	162	440	851	471	112	76	55
22	43	121	74	e96	147	178	450	703	434	104	70	53
23	43	93	72	91	178	200	479	628	404	100	64	53
24	43	137	73	e92	164	188	527	613	391	100	62	52
25	43	139	70	e94	154	189	573	673	366	97	61	56
26	44	75	75	95	158	204	705	742	359	92	61	54
27	43	87	75	94	168	217	620	860	346	87	60	47
28	44	67	81	e95	166	226	532	900	319	88	65	46
29	43	75	91	e95	---	245	504	1020	298	88	74	46
30	45	60	110	e96	---	295	469	1220	285	93	74	50
31	74	---	164	e96	---	339	---	1290	---	91	71	---
TOTAL	1402	1904	2555	3859	3195	5719	19677	27290	18413	4524	2427	1782
MEAN	45.23	63.47	82.42	124.5	114.1	184.5	655.9	880.3	613.8	145.9	78.29	59.40
MAX	74	139	164	216	178	339	1420	1440	1320	262	103	77
MIN	41	44	69	91	85	136	378	412	285	87	60	46
AC-FT	2780	3780	5070	7650	6340	11340	39030	54130	36520	8970	4810	3530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1890 - 2002, BY WATER YEAR (WY)

MEAN	99.32	139.1	177.0	193.3	226.1	305.4	609.7	1199	1019	413.9	153.4	104.8
MAX	416	1110	1127	1789	947	1038	1140	2541	3056	1794	597	416
(WY)	1893	1951	1951	1997	1986	1986	1969	1890	1983	1890	1890	1893
MIN	31.2	37.9	34.0	31.9	31.1	67.8	185	205	138	62.9	29.5	19.4
(WY)	1989	1991	1901	1904	1903	1977	1977	1977	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1890 - 2002	
ANNUAL TOTAL	72033		92747			
ANNUAL MEAN	197.4		254.1		381.5	
HIGHEST ANNUAL MEAN					905	1893
LOWEST ANNUAL MEAN					91.6	1977
HIGHEST DAILY MEAN	1350	May 12	1440	May 18	17000	Jan 2 1997
LOWEST DAILY MEAN	29	Sep 9	41	Oct 1	11	Sep 4 1977
ANNUAL SEVEN-DAY MINIMUM	33	Sep 5	43	Oct 22	12	Sep 2 1977
MAXIMUM PEAK FLOW			1790	Apr 15	20300	Jan 2 1997
MAXIMUM PEAK STAGE			6.09	Apr 15	13.00	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	142900		184000		276400	
10 PERCENT EXCEEDS	541		733		1060	
50 PERCENT EXCEEDS	74		102		160	
90 PERCENT EXCEEDS	43		47		58	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955-72, 1977-84, 1990 to November 1996, February to September, 2002.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1993 to September 1996, February to September, 2002.
WATER TEMPERATURE: July 1955 to June 1966, November 1966 to September 1972, November 1993 to September 1996, and February to September 2002.

INSTRUMENTATION.--Specific conductance monitor since November 1993 to September 1996, February to September 2002, hourly. Water temperature recorder July 1955 to June 1966 and November 1966 to September 1972 provided continuous recordings. Water temperature monitor November 1993 to September 1996 and Februrary to September 2002, hourly.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 375 microsiemens, September 28, 29, 1994; minimum daily, 24 microsiemens, May 17, 1996.
WATER TEMPERATURE: Maximum daily, 29.5°C, August 7, 1960; minimum daily, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 242 microsiemens, September 29; minimum daily, 46 microsiemens, May 18, 19 but may have been higher before monitor was installed.
WATER TEMPERATURE: Maximum, 26.0°C, July 10, 28, 30, and 31; minimum, freezing point on many days during March but probably occurred during winter months before monitor was installed.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	176	171	173	140	127	131	92	65	85
2	---	---	---	181	171	174	131	118	121	92	62	82
3	---	---	---	183	173	177	121	106	110	94	77	90
4	---	---	---	183	172	177	111	93	98	89	77	80
5	---	---	---	179	175	176	101	85	89	79	67	71
6	---	---	---	177	167	175	94	87	90	72	61	65
7	---	---	---	175	166	170	95	90	92	65	57	60
8	---	---	---	188	168	178	95	87	90	65	56	60
9	---	---	---	188	176	183	91	83	86	66	60	63
10	---	---	---	187	175	180	88	82	85	66	60	63
11	---	---	---	189	179	182	87	79	82	71	65	68
12	---	---	---	186	182	185	83	73	77	70	64	68
13	---	---	---	185	176	179	78	71	74	68	61	64
14	---	---	---	184	180	182	77	62	70	63	55	59
15	---	---	201	195	165	186	68	57	61	59	53	56
16	203	198	201	195	184	190	78	65	72	59	52	55
17	203	198	199	191	180	186	84	76	80	57	51	54
18	205	195	199	192	185	188	89	76	85	54	46	50
19	205	200	202	197	186	190	94	75	89	55	46	50
20	204	197	201	196	185	189	100	84	96	58	52	55
21	201	193	196	189	186	187	102	95	99	65	58	62
22	195	192	194	190	183	187	101	94	98	70	64	67
23	192	180	186	184	175	178	99	87	92	74	69	71
24	186	179	182	184	174	179	92	78	84	73	70	71
25	186	184	185	191	180	185	85	71	81	73	66	68
26	184	181	182	188	181	185	81	71	74	68	63	65
27	182	175	179	184	179	181	80	74	78	65	58	60
28	177	174	175	181	172	176	85	73	81	---	---	---
29	---	---	---	174	165	169	86	81	84	---	---	---
30	---	---	---	167	149	155	90	80	87	---	---	---
31	---	---	---	150	138	142	---	---	---	---	---	---
MONTH	---	---	---	197	138	179	140	57	88	---	---	---

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	155	149	152	196	191	193
2	---	---	---	---	---	---	151	149	150	197	193	195
3	---	---	---	---	---	---	154	150	152	201	196	198
4	---	---	---	104	99	102	155	152	153	202	200	201
5	---	---	---	107	102	105	161	153	157	202	189	196
6	---	---	---	110	106	108	165	161	163	191	187	189
7	---	---	---	114	109	111	166	162	164	191	183	186
8	---	---	---	116	111	113	167	155	161	192	184	187
9	---	---	---	121	114	117	160	150	154	197	191	194
10	---	---	---	120	116	118	162	157	160	199	193	196
11	---	---	---	122	117	120	183	162	171	199	192	197
12	---	---	---	124	121	123	192	183	188	195	183	189
13	---	---	---	125	117	123	198	192	195	208	195	201
14	---	---	---	126	122	124	199	197	198	211	204	207
15	---	---	---	129	126	127	198	193	194	214	208	211
16	---	---	---	132	128	130	193	190	192	216	211	213
17	---	---	---	137	132	134	193	190	192	216	212	214
18	---	---	---	137	134	135	198	191	194	217	212	214
19	---	---	---	137	129	133	198	187	192	217	213	215
20	---	---	---	140	134	137	187	183	185	220	214	217
21	---	---	---	143	140	142	184	164	175	223	217	219
22	---	---	---	149	143	146	169	159	163	226	220	222
23	---	---	---	152	147	149	181	168	175	228	222	225
24	---	---	---	153	151	152	183	169	180	231	224	227
25	---	---	---	156	152	154	185	180	182	230	225	227
26	---	---	---	158	154	156	187	182	184	227	219	223
27	---	---	---	161	157	159	189	184	186	234	226	229
28	---	---	---	162	158	160	193	185	189	239	233	235
29	---	---	---	159	156	158	194	187	190	242	237	239
30	---	---	---	160	152	156	187	184	186	241	236	238
31	---	---	---	155	152	153	192	185	188	---	---	---
MONTH	---	---	---	---	---	---	199	149	176	242	183	210

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.0	1.5	4.5	11.5	5.5	8.5	9.0	4.0	6.5
2	---	---	---	6.5	0.0	3.5	11.5	5.5	8.5	12.5	5.0	9.0
3	---	---	---	7.0	0.0	3.5	11.5	5.5	9.0	13.5	7.5	10.5
4	---	---	---	8.0	1.0	4.5	11.0	5.0	8.0	12.5	7.0	10.5
5	---	---	---	8.0	3.0	5.5	9.0	4.5	7.0	12.5	6.0	9.5
6	---	---	---	8.0	4.5	6.0	10.0	4.5	7.5	12.5	6.0	9.5
7	---	---	---	6.5	2.0	4.5	10.5	4.5	8.0	12.0	6.0	9.0
8	---	---	---	7.0	0.0	3.5	9.5	5.5	8.0	10.5	4.0	7.5
9	---	---	---	7.0	1.0	4.0	9.5	6.0	7.5	11.5	5.5	8.5
10	---	---	---	5.5	2.0	4.0	11.0	4.5	8.0	10.0	5.0	8.0
11	---	---	---	8.0	3.0	5.5	11.0	6.0	8.5	12.0	6.0	9.0
12	---	---	---	11.0	5.5	7.5	11.0	5.0	8.5	11.0	5.5	9.0
13	---	---	---	7.0	3.0	5.0	11.0	5.0	8.0	13.0	6.5	10.0
14	---	---	---	5.0	2.0	3.0	12.0	6.0	9.0	13.0	6.5	10.0
15	---	---	6.0	3.0	0.0	2.0	7.5	4.0	5.5	12.5	7.0	10.0
16	7.5	2.0	4.5	5.5	0.0	2.5	7.5	2.5	5.0	13.0	6.5	10.0
17	5.5	3.0	4.0	4.5	0.0	2.0	7.5	2.5	4.5	14.0	7.5	11.0
18	7.0	1.5	4.0	7.5	0.0	3.5	4.5	2.0	3.5	14.0	8.0	11.0
19	6.0	3.5	5.0	10.0	1.5	5.5	5.0	2.5	4.0	12.0	7.0	9.5
20	11.0	5.5	7.5	11.0	4.0	7.5	9.0	2.5	5.5	9.5	6.0	8.0
21	9.5	4.5	7.0	11.0	5.5	8.0	11.0	4.5	8.0	10.0	3.5	7.0
22	9.5	4.0	6.5	11.5	5.0	8.0	12.5	6.0	9.0	11.0	4.5	8.0
23	7.5	5.0	6.0	7.5	4.0	6.0	12.5	6.5	9.5	13.0	6.5	10.0
24	9.0	2.5	5.5	9.0	3.5	6.0	11.0	6.5	9.0	13.5	7.0	10.5
25	8.5	2.5	5.5	10.0	3.0	6.5	12.5	6.5	9.5	13.5	9.0	11.5
26	8.5	2.0	5.0	11.5	4.5	8.0	10.0	7.0	8.0	14.0	8.0	11.0
27	8.5	3.0	5.5	12.0	5.0	8.5	10.5	4.5	7.5	13.5	8.5	11.0
28	8.5	2.0	5.0	12.0	5.5	8.5	8.5	4.0	6.5	---	---	---
29	---	---	---	13.0	6.0	9.5	9.5	5.0	6.5	---	---	---
30	---	---	---	12.0	6.0	9.0	9.0	4.0	6.5	---	---	---
31	---	---	---	11.5	5.5	8.5	---	---	---	---	---	---
MONTH	---	---	---	13.0	0.0	5.6	12.5	2.0	7.4	---	---	---

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLEVILLE, NV-- Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	23.5	17.5	20.5	24.0	15.5	19.5
2	---	---	---	---	---	---	22.5	16.5	19.5	23.5	15.5	19.5
3	---	---	---	---	---	---	24.0	16.5	20.0	22.0	16.0	18.5
4	---	---	---	23.0	15.0	18.5	22.5	15.5	18.5	21.0	15.0	17.5
5	---	---	---	23.5	15.5	19.5	22.0	15.5	18.5	20.0	14.5	17.0
6	---	---	---	24.0	16.0	20.0	22.5	13.5	17.5	19.0	14.5	16.5
7	---	---	---	24.0	17.0	20.5	22.5	13.0	17.5	18.5	11.0	15.0
8	---	---	---	24.0	15.0	19.5	22.5	13.0	18.0	20.0	11.5	15.5
9	---	---	---	25.0	15.5	20.0	22.5	13.5	18.0	19.5	10.5	15.0
10	---	---	---	26.0	17.0	21.5	23.5	14.5	19.0	20.0	11.0	15.5
11	---	---	---	24.5	18.0	21.5	23.0	15.5	19.5	21.0	12.0	16.5
12	---	---	---	23.0	18.5	20.5	25.0	16.0	20.5	21.5	12.5	17.0
13	---	---	---	22.0	17.0	19.5	25.5	16.5	21.0	21.5	13.0	17.5
14	---	---	---	25.5	17.5	21.5	25.0	17.5	21.5	20.5	13.5	17.0
15	---	---	---	25.5	17.5	21.5	25.0	17.0	21.0	20.0	13.5	16.5
16	---	---	---	24.5	17.5	21.0	25.5	17.5	21.5	19.5	11.5	15.5
17	---	---	---	21.0	18.0	19.5	23.5	16.5	20.5	19.0	12.5	15.5
18	---	---	---	20.5	16.0	18.0	24.0	15.0	19.5	19.0	11.5	15.0
19	---	---	---	24.0	14.0	19.0	23.0	15.0	19.0	19.5	11.0	15.0
20	---	---	---	25.5	16.5	21.0	21.0	14.0	17.5	20.5	11.5	16.0
21	---	---	---	24.0	18.0	21.5	21.5	12.0	17.0	21.0	13.0	17.0
22	---	---	---	25.0	16.5	20.5	22.5	13.5	18.0	21.0	12.5	16.5
23	---	---	---	24.0	15.0	19.5	22.5	13.5	18.0	21.0	12.5	16.5
24	---	---	---	24.5	15.5	20.0	23.0	13.0	18.0	20.0	13.0	16.5
25	---	---	---	24.5	16.0	20.0	22.5	14.0	18.5	20.0	12.5	16.0
26	---	---	---	25.0	15.0	20.0	23.0	13.5	18.0	19.0	11.0	15.0
27	---	---	---	25.5	16.0	20.5	22.0	13.0	18.0	16.0	12.0	13.5
28	---	---	---	26.0	16.5	21.5	22.0	13.5	18.0	18.0	11.0	13.5
29	---	---	---	25.5	16.5	21.0	22.5	15.0	18.5	17.0	9.5	13.0
30	---	---	---	26.0	17.5	22.0	23.0	15.5	19.5	16.5	9.5	12.5
31	---	---	---	26.0	17.5	22.0	23.5	15.5	19.5	---	---	---
MONTH	---	---	---	---	---	---	25.5	12.0	19.0	24.0	9.5	16.0

10309010 EAST FORK CARSON RIVER NEAR DRESSLERVILLE, NV

LOCATION--Lat 38°52'42", long 119°41'18", in NE $^{1}/_{4}$ NW $^{1}/_{4}$ sec.25, T.12 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at Dresslerville Bridge, about 600 ft downstream from the old diversion dam, and about 2 mi southeast of Dresslerville.

DRAINAGE AREA.--Not Determined.

PERIOD OF RECORD.--Water years 1993 to 1995, 1997 to 1998, and 2000 to current year.

REMARKS.--In April 1993, station incorporated into the National Water-Quality Assessment Program (NAWQA) to monitor water-quality conditions in the Carson River Basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
OCT													
15...	1000	ENVIRONMENTAL	E44	641	10.4	107	8.2	270	14.0	8.9	78	95	10.5
NOV													
19...	1000	ENVIRONMENTAL	E42	640	11.6	104	8.2	242	4.0	3.5	73	89	9.80
DEC													
18...	1030	ENVIRONMENTAL	E68	639	11.8	97	8.1	207	9.0	.2	67	82	6.62
JAN													
24...	1025	ENVIRONMENTAL	E92	644	12.7	103	7.4	212	1.0	.0	73	89	6.27
FEB													
19...	1030	ENVIRONMENTAL	E99	635	11.1	104	7.9	197	9.0	5.0	66	81	5.17
MAR													
21...	0950	ENVIRONMENTAL	E170	638	11.2	108	7.3	175	15.0	6.2	61	74	4.82
APR													
16...	1110	ENVIRONMENTAL	1110	631	11.8	108	6.9	72	15.0	3.8	27	33	1.48
MAY													
15...	1220	ENVIRONMENTAL	1530	636	9.8	105	7.2	60	22.0	10.5	23	28	.47
JUN													
10...	1035	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
10...	1200	ENVIRONMENTAL	737	640	9.9	103	7.6	61	--	9.4	26	32	1.02
JUL													
09...	1030	ENVIRONMENTAL	E174	642	8.1	104	8.0	110	24.0	18.9	40	49	2.77
09...	1225	**SEQ. REPLICATE**	--	*643*	*8.3*	*108*	*8.2*	*113*	*25.0*	*19.5*	*41*	*50*	*2.88*
AUG													
20...	0950	ENVIRONMENTAL	E62	635	9.6	115	7.8	180	23.0	15.0	59	72	5.34
20...	1215	**PESTICIDE SPIKE**	--	--	--	--	--	--	--	--	--	--	--
SEP													
05...	1015	ENVIRONMENTAL	E66	636	9.4	114	7.7	202	--	15.8	62	76	6.55

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)
OCT													
15...	36.3	<.04	.12	<.05	<.008	.11	<.02	.014	.8	<.1	1.6	.8	<.002
NOV													
19...	33.1	<.04	.11	<.05	<.008	.14	<.02	.015	.8	<.1	1.2	.8	--
DEC													
18...	29.1	<.04	.12	<.05	<.008	.12	<.02	.017	.4	<.1	--	.4	<.002
JAN													
24...	26.1	<.04	<.10	<.05	<.008	.04	.03	.019	.5	<.1	--	.5	--
FEB													
19...	23.4	<.04	E.06	<.05	<.008	.00	<.02	.021	.9	.1	--	.8	<.006
MAR													
21...	18.5	<.04	.15	<.05	<.008	.05	<.02	.026	.7	.2	--	.5	<.006
APR													
16...	4.7	<.04	.23	E.02	<.008	.18	E.01	.084	3.9	<.1	--	3.9	--
MAY													
15...	2.9	<.04	.25	<.05	<.008	.04	<.02	.073	2.0	.2	--	1.8	<.006
JUN													
10...	--	*<.04*	*<.10*	*<.05*	*<.008*	*<.02*	*<.02*	*<.004*	*<.1*	*<.1*	*1.3*	*<.1*	*<.006*
10...	3.4	<.04	E.09	<.05	<.008	.02	E.01	.038	.3	<.1	2.2	.3	<.006
JUL													
09...	9.1	<.04	.12	<.05	<.008	<.02	E.01	.027	.2	<.1	--	.2	<.006
09...	*9.2*	*<.04*	*.11*	*<.05*	*<.008*	*<.02*	*E.01*	*.024*	*.5*	*<.1*	*3.0*	*.5*	*<.006*
AUG													
20...	20.1	<.04	.13	<.05	<.008	.09	<.02	.017	.4	<.1	--	.4	<.006
20...	--	--	--	--	--	--	--	--	--	--	--	--	*.126*
SEP													
05...	22.5	<.04	.32	<.05	<.008	.09	E.01	.037	.6	<.1	--	.5	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a] DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)
OCT													
15...	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	116
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	100
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
19...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	108
MAR													
21...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	115
APR													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
15...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	108
JUN													
10...	*<.006*	*<.004*	*<.005*	*<.007*	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*107*
10...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	117
JUL													
09...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	84.3
09...	*<.006*	*<.004*	*<.005*	*<.007*	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*87.6*
AUG													
20...	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	128
20...	*.168*	*.152*	*.141*	*.134*	*.082*	*.133*	*E.185*	*E.138*	*.118*	*.137*	*.114*	*E.096*	*126*
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	[a] HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
OCT													
15...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	81.6	<.004	<.035	<.027	<.050	<.006
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	85.2	<.004	<.035	<.027	<.050	<.006
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
19...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	95.7	<.004	<.035	<.027	<.050	<.006
MAR													
21...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	97.4	<.004	<.035	<.027	<.050	<.006
APR													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
15...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	108	<.004	<.035	<.027	<.050	<.006
JUN													
10...	*<.005*	*<.005*	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*103*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
10...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	107	<.004	<.035	<.027	<.050	<.006
JUL													
09...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	86.7	<.004	<.035	<.027	<.050	<.006
09...	*<.005*	*<.005*	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*83.8*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
AUG													
20...	<.005	<.005	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	<.027	<.050	<.006
20...	*.157*	*.104*	*M*	*.121*	*.097*	*.112*	*.151*	*96.4*	*.148*	*.149*	*.118*	*E.242*	*.168*
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)
OCT													
15...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010
NOV													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
18...	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004	<.010
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
19...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
MAR													
21...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
APR													
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
15...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
JUN													
10...	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*	*<.004*	*<.010*
10...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
JUL													
09...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
09...	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*	*<.004*	*<.010*
AUG													
20...	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004	<.010
20...	*.146*	*.123*	*.125*	*.134*	*.073*	*.106*	*.119*	*.089*	*.076*	*<.011*	*.12*	*.137*	*.147*
SEP													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT													
15...	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	91	2	E0.2
NOV													
19...	--	--	--	--	--	--	--	--	--	--	73	5	E0.6
DEC													
18...	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	82	4	E0.7
JAN													
24...	--	--	--	--	--	--	--	--	--	--	39	38	E9
FEB													
19...	<.011	<.02	<.005	<.02	<.034	<.02	U	<.005	<.002	<.009	89	5	E1
MAR													
21...	<.011	<.02	<.005	<.02	<.034	<.02	U	<.005	<.002	<.009	52	13	E6
APR													
16...	--	--	--	--	--	--	--	--	--	--	60	42	126
MAY													
15...	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	81	46	190
JUN													
10...	*<.011*	*<.02*	*<.005*	*<.02*	*<.034*	*<.02*	--	*<.005*	*<.002*	*<.009*	--	--	--
10...	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	87	12	23.9
JUL													
09...	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	88	4	E2
09...	*<.011*	*<.02*	*<.005*	*<.02*	*<.034*	*<.02*	--	*<.005*	*<.002*	*<.009*	--	--	--
AUG													
20...	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	72	5	E0.8
20...	*.144*	*.13*	*.079*	*.13*	*E.157*	*.06*	--	*.160*	*.121*	*.082*	--	--	--
SEP													
05...	--	--	--	--	--	--	--	--	--	--	90	6	E1

Abbreviations: SEQ., Sequential.
Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified
U -- Analyzed for, not detected

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

CARSON RIVER BASIN

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'11", long 119°49'58", in NW $^1/_4$ SE $^1/_4$ sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank, 0.3 mi downstream from bridge on State Highway 88-89, 0.6 mi southwest of Woodfords, 3.8 mi downstream from Willow Creek, and at mi 21.17 from mouth.

DRAINAGE AREA.--65.4 mi^2.

PERIOD OF RECORD.--October 1900 to May 1907, 1910-11 (fragmentary), October 1938 to current year. January 1890 to March 1892, June 1907 to September 1920 (except parts of 1910-11), at site 0.7 mi downstream; records not equivalent owing to diversions for irrigation.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft above NGVD of 1929. Prior to October 1, 1938, nonrecording gage at about the same site at different datum. October 1, 1938, to November 11, 1958, water-stage recorder at same site at datum 1.02 ft lower. November 13, 1958, to January 30, 1963, water-stage recorder at site 150 ft downstream at datum 3.06 ft lower. January 1997 flood, channel changed course upstream and existing site unusable. Gage moved 200 ft upstream March 1997 at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft^3/s, January 1, 1997, gage height, 15.36 ft (present location); minimum daily, 5.3 ft^3/s, September 2, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 11, 1937, reached a stage of 8.0 ft, at different datum, from floodmarks, discharge, 3,500 ft^3/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	2245	*772	*12.77	No other peaks greater than base discharge			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	22	27	24	48	145	194	258	60	22	13
2	12	15	21	29	e24	45	177	184	226	57	22	12
3	12	14	17	29	24	43	223	209	186	55	22	12
4	11	13	19	28	e24	43	291	248	182	51	21	12
5	12	12	22	29	24	43	309	287	189	47	20	13
6	12	12	23	35	24	50	287	308	190	45	18	13
7	12	12	23	37	24	35	279	325	179	42	18	14
8	12	12	23	40	22	43	287	311	167	40	18	14
9	12	12	23	37	24	45	332	294	144	37	18	13
10	12	12	23	35	24	37	346	279	124	36	18	13
11	12	15	23	32	25	44	354	248	118	34	18	23
12	12	18	23	33	26	51	370	253	117	35	17	26
13	12	19	23	30	26	53	377	271	123	37	17	21
14	12	18	21	31	26	48	481	305	130	34	23	13
15	12	17	28	28	26	50	502	317	119	32	28	12
16	12	16	23	28	27	50	322	327	113	31	25	12
17	12	16	23	e28	27	42	271	332	108	30	17	12
18	12	15	22	e28	27	44	230	357	113	31	16	13
19	12	14	22	27	28	41	202	320	118	32	16	12
20	12	14	22	e28	32	45	191	256	108	29	16	12
21	12	19	21	28	37	48	200	211	104	28	16	12
22	12	57	22	e29	42	56	212	180	98	27	17	12
23	12	29	22	e28	47	60	231	167	92	26	16	18
24	12	38	22	e27	44	53	249	158	90	25	16	27
25	12	30	23	26	45	49	276	166	86	24	16	26
26	12	25	23	25	46	49	315	177	88	24	19	20
27	12	25	23	25	48	55	268	195	79	23	23	13
28	12	23	24	e25	48	67	229	200	72	23	26	12
29	11	21	24	e24	---	84	225	221	67	23	28	13
30	16	22	25	e24	---	107	208	254	64	22	25	13
31	23	---	27	e24	---	125	---	269	---	22	14	---
TOTAL	385	582	702	904	865	1653	8389	7823	3852	1062	606	451
MEAN	12.42	19.40	22.65	29.16	30.89	53.32	279.6	252.4	128.4	34.26	19.55	15.03
MAX	23	57	28	40	48	125	502	357	258	60	28	27
MIN	11	12	17	24	22	35	145	158	64	22	14	12
AC-FT	764	1150	1390	1790	1720	3280	16640	15520	7640	2110	1200	895

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2002, BY WATER YEAR (WY)

MEAN	27.14	39.68	46.73	53.36	56.86	77.92	207.5	376.5	258.0	105.9	48.22	30.73
MAX	79.1	321	347	621	258	283	502	924	996	525	223	120
(WY)	1983	1951	1951	1997	1963	1986	1907	1906	1983	1907	1907	1983
MIN	8.27	13.1	12.8	13.7	16.3	18.2	46.6	56.4	37.4	18.1	11.1	7.00
(WY)	1989	1991	1991	1961	1977	1977	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1901 - 2002	
ANNUAL TOTAL	17500		27274			
ANNUAL MEAN	47.95		74.72		110.9	
HIGHEST ANNUAL MEAN					290	1907
LOWEST ANNUAL MEAN					26.1	1977
HIGHEST DAILY MEAN	314	May 1	502	Apr 15	5500	Jan 2 1997
LOWEST DAILY MEAN	11	Sep 2	11	Oct 4	5.3	Sep 2 1977
ANNUAL SEVEN-DAY MINIMUM	11	Sep 16	12	Oct 1	5.4	Sep 5 1977
MAXIMUM PEAK FLOW			772	Apr 14	8100	Jan 1 1997
MAXIMUM PEAK STAGE			12.77	Apr 14	15.36	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	34710		54100		80320	
10 PERCENT EXCEEDS	136		248		296	
50 PERCENT EXCEEDS	22		27		45	
90 PERCENT EXCEEDS	12		12		17	

e Estimated

CARSON RIVER BASIN

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW $^1/_4$ NE $^1/_4$ sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, in Haines Canyon on left bank, 0.55 mi upstream from Foothill Road, and 3.5 mi southwest of Genoa.

DRAINAGE AREA.--3.82 mi^2.

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site). October 1965 to September 1983, December 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,100 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No diversions above station. Intermittent pumping of effluent from Lake Tahoe Basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft^3/s, August 5, 1971, gage height, 2.78 ft; minimum daily, 0.38 ft^3/s, October 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft^3/s and maximum (*):

		Discharge	Gage height			Discharge	Gage height
Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
Nov 24	1130	*5.4	*1.00	July 18	1345	5.1	0.99

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	1.1	1.3	1.4	0.97	1.1	1.7	1.2	1.1	1.0	0.85	0.96
2	0.97	1.1	2.0	1.7	0.97	1.1	1.7	1.2	1.1	1.0	0.81	0.98
3	0.98	1.2	1.3	1.5	1.0	1.2	1.7	1.2	1.1	1.0	0.94	0.99
4	0.95	1.2	1.3	1.4	1.1	1.2	1.5	1.2	1.1	0.99	0.96	1.1
5	0.92	1.2	1.2	1.4	1.1	1.2	1.5	1.2	1.1	0.99	0.97	1.1
6	0.94	1.2	1.2	1.7	1.1	1.6	1.4	1.2	1.1	0.98	0.97	1.1
7	0.92	1.2	1.2	1.5	1.3	1.7	1.4	1.2	1.0	1.0	0.97	1.0
8	0.94	1.2	1.2	1.4	1.3	1.5	1.4	1.2	1.1	1.0	0.95	1.0
9	0.92	1.2	1.2	1.3	1.2	1.5	1.4	1.1	1.1	1.0	0.94	0.98
10	0.91	1.2	1.2	1.2	1.2	1.5	1.4	1.1	1.2	0.99	0.94	0.98
11	0.90	1.2	1.2	1.1	1.3	1.6	1.4	1.1	1.2	0.93	0.91	1.0
12	0.89	1.4	1.2	1.2	1.2	1.7	1.4	1.0	1.2	0.95	0.90	0.98
13	0.86	1.3	1.2	1.1	1.2	1.5	1.4	0.93	1.1	0.97	0.91	0.94
14	0.83	1.3	1.2	1.2	1.2	1.5	1.4	0.93	1.1	0.96	0.92	0.94
15	0.84	1.3	1.2	1.1	1.2	1.4	1.4	0.95	1.1	0.94	0.88	0.93
16	0.83	1.2	1.2	1.1	1.2	1.4	1.4	0.95	1.0	0.93	0.89	0.99
17	0.83	1.2	1.3	1.2	1.2	1.5	1.4	0.94	1.0	1.3	0.91	1.0
18	0.85	1.2	1.2	0.97	1.2	1.5	1.4	0.94	1.1	1.5	0.93	1.0
19	0.86	1.2	1.2	0.97	1.3	1.6	1.4	0.97	1.1	1.1	0.95	1.0
20	0.85	1.2	1.2	0.97	1.4	1.6	1.5	1.2	1.0	1.3	0.98	1.0
21	0.85	1.5	1.2	1.0	1.3	1.6	1.4	1.1	1.1	1.0	1.0	0.98
22	0.90	1.9	1.2	0.97	1.4	1.5	1.4	1.1	1.1	1.0	1.0	0.98
23	0.98	1.3	1.2	0.94	1.3	1.6	1.4	1.1	1.1	1.0	1.0	1.0
24	1.1	2.3	1.2	1.0	1.2	1.5	1.3	1.0	1.1	1.0	0.99	1.0
25	1.0	1.6	1.2	1.0	1.2	1.5	1.4	0.99	1.1	1.0	0.98	1.0
26	1.0	1.4	1.2	0.97	1.2	1.5	1.5	0.96	1.1	1.0	0.99	1.00
27	1.0	1.3	1.3	0.97	1.2	1.5	1.4	1.0	1.0	1.00	1.0	0.97
28	1.0	1.3	1.3	0.94	1.2	1.5	1.3	1.0	1.1	0.94	1.0	1.0
29	0.98	1.4	1.3	0.96	---	1.7	1.5	1.0	1.0	1.2	1.0	1.1
30	1.3	1.3	1.4	0.97	---	1.6	1.3	1.1	1.0	1.2	0.97	1.1
31	1.2	---	1.5	0.97	---	1.6	---	1.0	---	1.0	0.96	---
TOTAL	29.26	39.6	39.2	36.10	33.64	46.0	43.1	33.06	32.6	32.17	29.37	30.10
MEAN	0.944	1.320	1.265	1.165	1.201	1.484	1.437	1.066	1.087	1.038	0.947	1.003
MAX	1.3	2.3	2.0	1.7	1.4	1.7	1.7	1.2	1.2	1.5	1.0	1.1
MIN	0.83	1.1	1.2	0.94	0.97	1.1	1.3	0.93	1.0	0.93	0.81	0.93
AC-FT	58	79	78	72	67	91	85	66	65	64	58	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	1.367	1.661	1.575	1.860	1.854	2.079	2.142	2.519	2.342	1.771	1.546	1.349
MAX	3.48	3.49	3.64	5.82	3.72	3.86	3.38	4.73	6.84	5.30	7.29	4.20
(WY)	1970	1969	1971	1997	1970	1970	1997	1967	1983	1969	1969	1970
MIN	0.69	0.83	0.77	0.98	1.04	1.06	1.10	0.98	0.68	0.51	0.56	0.56
(WY)	1980	1980	1993	1989	1991	1977	1994	1990	1994	1994	1994	1979

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1966 - 2002
ANNUAL TOTAL	451.83	424.20	
ANNUAL MEAN	1.238	1.162	1.877
HIGHEST ANNUAL MEAN			3.57 1969
LOWEST ANNUAL MEAN			0.95 1994
HIGHEST DAILY MEAN	2.3 Apr 23	2.3 Nov 24	35 Jan 2 1997
LOWEST DAILY MEAN	0.83 Oct 14	0.81 Aug 2	0.38 Oct 9 1979
ANNUAL SEVEN-DAY MINIMUM	0.84 Oct 14	0.84 Oct 14	0.45 Jun 29 1994
MAXIMUM PEAK FLOW		5.4 Nov 24	63 Aug 5 1971
MAXIMUM PEAK STAGE		1.00 Nov 24	2.78 Aug 5 1971
INSTANTANEOUS LOW FLOW		0.65 Aug 2	
ANNUAL RUNOFF (AC-FT)	896	841	1360
10 PERCENT EXCEEDS	1.6	1.5	3.3
50 PERCENT EXCEEDS	1.2	1.1	1.5
90 PERCENT EXCEEDS	0.91	0.94	0.89

CARSON RIVER BASIN

10310407 CARSON RIVER NEAR GENOA, NV

LOCATION.--Lat 39°00'45", long 119°49'48", in SW $^{1}/_{4}$ SE $^{1}/_{4}$ sec.03, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on right bank, 0.2 mi below confluence of Carson River and Brockliss Slough, and 1 mi northeast of Genoa.

DRAINAGE AREA.-- mi^2.

PERIOD OF RECORD.--October 2001 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 4,670 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Many diversions for irrigation above station. Intermittent pumping above gage for Genoa Lakes Golf Course. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft^3/s, April 14, 2002, gage height, 11.23 ft; minimum daily, 6.8 ft^3/s, October 3, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft^3/s, April 14, gage height, 11.23 ft; minimum daily, 6.8 ft^3/s, October 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	32	84	221	129	193	305	326	996	49	15	12
2	6.9	28	160	201	122	175	296	265	919	44	13	12
3	6.8	34	250	244	122	157	354	300	735	32	13	12
4	6.9	35	146	218	119	156	460	373	672	16	13	20
5	7.0	36	110	191	118	160	589	492	680	21	13	18
6	7.0	38	158	207	122	164	568	584	708	24	14	12
7	7.5	34	151	268	125	255	527	654	682	23	15	12
8	7.1	37	129	253	156	201	543	682	625	19	18	12
9	6.9	38	126	237	122	179	606	660	548	30	13	12
10	7.1	38	124	223	114	191	657	644	453	17	14	10
11	7.9	37	121	209	119	180	649	589	410	19	13	11
12	7.8	43	115	202	124	201	754	609	334	18	13	11
13	7.6	53	113	199	120	240	777	637	359	16	13	10
14	8.2	57	134	193	119	229	828	696	397	25	13	12
15	9.1	56	112	176	119	194	1170	754	381	19	13	13
16	9.4	55	89	159	125	179	881	821	347	15	12	13
17	9.5	52	139	148	127	185	683	883	315	15	12	10
18	9.5	49	135	165	127	176	582	1030	281	21	12	10
19	10	51	121	131	120	174	496	1110	218	21	12	12
20	11	48	127	159	129	193	463	959	182	20	12	11
21	11	51	116	157	142	206	436	754	171	24	12	12
22	11	97	115	150	154	211	401	612	210	30	12	11
23	11	180	118	130	181	238	390	496	203	33	12	11
24	10	164	116	116	185	238	388	497	170	24	12	11
25	11	262	109	154	170	228	398	509	130	19	12	13
26	14	128	112	147	173	208	512	527	55	16	12	13
27	18	94	126	135	189	209	536	596	43	13	11	15
28	15	93	135	123	199	214	459	647	60	12	12	15
29	13	97	173	115	---	232	427	702	64	13	12	12
30	13	90	174	133	---	233	414	872	61	20	12	13
31	17	---	211	144	---	283	---	965	---	16	12	---
TOTAL	304.5	2107	4149	5508	3871	6282	16549	20245	11409	684	397	371
MEAN	9.82	70.2	134	178	138	203	552	653	380	22.1	12.8	12.4
MAX	18	262	250	268	199	283	1170	1110	996	49	18	20
MIN	6.8	28	84	115	114	156	296	265	43	12	11	10
AC-FT	604	4180	8230	10930	7680	12460	32820	40160	22630	1360	787	736

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2002, BY WATER YEAR (WY)

MEAN	9.82	70.2	134	178	138	203	552	653	380	22.1	12.8	12.4
MAX	9.82	70.2	134	178	138	203	552	653	380	22.1	12.8	12.4
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	9.82	70.2	134	178	138	203	552	653	380	22.1	12.8	12.4
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2002 WATER YEAR

ANNUAL TOTAL	71876.5	
ANNUAL MEAN	197	
HIGHEST DAILY MEAN	1170	Apr 15
LOWEST DAILY MEAN	6.8	Oct 3
ANNUAL SEVEN-DAY MINIMUM	7.0	Oct 2
MAXIMUM PEAK FLOW	1280	Apr 15
MAXIMUM PEAK STAGE	11.24	Apr 15
ANNUAL RUNOFF (AC-FT)	142600	
10 PERCENT EXCEEDS	600	
50 PERCENT EXCEEDS	123	
90 PERCENT EXCEEDS	12	

CARSON RIVER BASIN

10310447 AMBROSETTI POND NEAR GENOA, NV

LOCATION.--Lat 39°02'31", long 119°47'01", in SW $^{1}/_{4}$ SW $^{1}/_{4}$ sec.30, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right bank, 20 ft upstream of outlet gate structure, and 4.3 mi northeast of Genoa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,660 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 5.80 ft, May 8; no contents in pond, October 1 through November 2.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	4.44	4.78	4.87	4.92	4.63	5.41	4.57	4.51	3.81	4.66
2	---	---	4.53	4.86	5.03	4.93	4.80	5.41	4.38	4.50	4.66	4.64
3	---	2.41	4.77	4.90	5.03	4.85	5.14	5.37	4.70	4.39	4.82	4.61
4	---	3.94	4.90	4.86	5.00	4.77	5.21	5.01	5.11	4.32	4.81	4.57
5	---	4.00	4.93	4.80	4.96	4.71	4.93	4.65	5.64	4.26	4.79	4.55
6	---	3.98	4.97	4.84	4.89	4.66	4.75	4.87	5.13	4.20	4.72	4.53
7	---	3.93	5.00	4.87	4.89	4.75	4.76	5.63	4.53	4.25	4.65	4.50
8	---	3.89	5.05	4.89	5.05	4.80	4.86	5.71	4.98	4.27	4.62	4.48
9	---	3.88	5.14	4.93	5.12	4.84	4.93	5.20	5.29	4.31	4.59	4.45
10	---	4.01	5.16	5.13	5.04	4.96	5.04	4.65	5.38	4.37	4.56	4.43
11	---	4.59	5.17	5.12	4.98	5.08	5.15	4.43	5.37	4.39	4.54	4.40
12	---	4.98	5.10	4.99	4.91	5.14	4.88	4.49	4.86	4.44	4.51	4.35
13	---	5.23	5.03	4.83	4.88	5.10	5.12	4.30	4.18	4.55	4.49	4.29
14	---	5.26	5.07	4.74	4.88	5.12	5.37	4.08	4.46	4.74	4.50	4.23
15	---	5.25	5.09	4.67	4.90	5.13	5.21	5.19	4.80	4.97	4.50	4.17
16	---	5.25	5.04	4.66	4.91	4.98	5.11	5.44	5.02	5.23	4.49	4.10
17	---	5.27	5.04	4.70	4.93	4.80	4.88	5.10	5.02	5.45	4.50	4.04
18	---	5.20	5.08	4.73	4.89	4.75	4.90	4.76	4.99	5.51	4.53	3.97
19	---	5.11	5.00	4.77	4.77	4.73	5.17	5.15	4.98	5.41	4.56	3.90
20	---	5.04	5.06	4.83	4.68	4.70	4.87	4.85	4.82	5.30	4.60	3.83
21	---	5.06	5.02	4.96	4.68	4.70	4.37	4.75	4.59	5.32	4.64	3.76
22	---	5.22	4.98	5.12	4.74	4.69	4.32	5.27	4.73	5.23	4.70	3.69
23	---	5.03	4.93	5.19	4.79	4.66	4.54	5.66	5.02	5.03	4.75	3.62
24	---	4.85	5.00	5.20	4.78	4.64	4.79	5.63	5.32	4.89	4.76	3.55
25	---	4.71	4.94	5.49	4.79	4.67	5.23	5.32	5.59	4.22	4.75	3.47
26	---	4.73	4.86	5.57	4.77	4.74	4.74	4.85	5.52	2.95	4.73	3.39
27	---	4.71	4.91	5.48	4.75	4.79	4.60	4.55	5.41	3.19	4.71	3.32
28	---	4.61	4.98	5.39	4.84	4.73	4.56	4.70	5.05	3.36	4.71	3.24
29	---	4.54	4.84	5.49	---	4.67	5.01	4.98	4.67	3.47	4.70	3.17
30	---	4.47	4.61	5.08	---	4.63	5.32	5.06	4.47	3.50	4.70	3.10
31	---	---	4.63	4.92	---	4.59	---	5.06	---	3.50	4.68	---
MAX	---	---	5.17	5.57	5.12	5.14	5.37	5.71	5.64	5.51	4.82	4.66
MIN	---	---	4.44	4.66	4.68	4.59	4.32	4.08	4.18	2.95	3.81	3.10

10310448 AMBROSETTI POND OUTLET NEAR GENOA, NV

LOCATION.--Lat 39°02'32", long 119°47'00", in SW $^{1}/_{4}$ SW $^{1}/_{4}$ sec.30, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right gate of outlet structure, and 4.3 mi northeast of Genoa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,660 ft above NGVD of 1929, from topographic map. Prior to October 1, 1995 at same site at datum 3.83 higher.

REMARKS.--Records poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown due to uncontrolled releases on many occasions; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 42 ft^3/s; May 8-11; no flow, October 1 through November 12 and August 8 through September 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	4.1	6.3	5.5	5.1	2.9	17	23	8.9	0.53	0.00
2	0.00	0.00	2.8	7.2	5.5	5.9	2.5	22	14	8.9	0.53	0.00
3	0.00	0.00	3.1	7.6	5.9	5.4	4.5	29	9.5	7.3	0.71	0.00
4	0.00	0.00	3.9	7.6	5.9	4.1	8.0	30	9.5	5.0	0.83	0.00
5	0.00	0.00	4.4	7.0	5.9	3.3	8.7	25	22	4.0	0.83	0.00
6	0.00	0.00	5.4	6.4	5.3	2.8	7.6	18	36	2.6	0.83	0.00
7	0.00	0.00	7.0	6.4	4.9	2.8	7.0	20	25	1.2	0.37	0.00
8	0.00	0.00	7.0	6.4	5.8	3.3	7.7	36	17	1.2	0.00	0.00
9	0.00	0.00	7.7	6.4	6.7	3.9	9.6	42	25	0.91	0.00	0.00
10	0.00	0.00	8.2	6.8	7.0	4.0	13	42	30	0.31	0.00	0.00
11	0.00	0.00	8.7	7.6	7.0	4.8	21	33	37	0.31	0.00	0.00
12	0.00	0.00	9.5	7.6	6.3	6.4	21	29	39	0.31	0.00	0.00
13	0.00	1.9	8.7	6.9	5.9	7.0	20	29	21	0.31	0.00	0.00
14	0.00	5.9	8.1	6.1	5.9	7.0	24	17	12	0.31	0.00	0.00
15	0.00	5.9	8.9	5.0	5.9	7.7	26	14	12	0.31	0.00	0.00
16	0.00	5.9	8.9	3.6	5.9	8.2	26	22	14	1.6	0.00	0.00
17	0.00	7.0	8.9	2.8	6.4	7.2	26	29	16	5.0	0.00	0.00
18	0.00	8.2	9.1	2.8	7.0	5.5	22	25	16	13	0.00	0.00
19	0.00	8.2	9.0	2.8	6.4	4.9	21	25	16	16	0.00	0.00
20	0.00	8.2	8.7	2.8	4.9	4.0	21	27	16	16	0.00	0.00
21	0.00	8.2	9.5	2.8	3.6	2.8	17	26	14	19	0.00	0.00
22	0.00	10	9.5	3.4	3.6	2.8	8.7	27	11	21	0.00	0.00
23	0.00	13	9.2	5.0	3.6	2.5	6.4	29	11	21	0.00	0.00
24	0.00	12	9.1	5.4	3.6	1.8	5.1	30	15	21	0.00	0.00
25	0.00	11	9.5	5.4	3.6	1.2	17	30	23	21	0.00	0.00
26	0.00	7.6	9.3	6.7	3.6	1.0	18	30	29	9.4	0.00	0.00
27	0.00	7.6	8.9	7.4	3.1	2.2	12	27	29	0.53	0.00	0.00
28	0.00	7.6	9.9	7.0	3.5	3.2	7.9	24	29	0.53	0.00	0.00
29	0.00	7.6	12	8.0	---	2.8	7.5	26	22	0.53	0.00	0.00
30	0.00	6.4	10	8.7	---	2.9	13	27	13	0.53	0.00	0.00
31	0.00	---	7.5	7.5	---	3.2	---	27	---	0.53	0.00	---
TOTAL	0.00	142.20	246.5	183.4	148.2	129.7	412.1	834	606.0	208.52	4.63	0.00
MEAN	0.000	4.74	7.95	5.92	5.29	4.18	13.7	26.9	20.2	6.73	0.15	0.000
MAX	0.00	13	12	8.7	7.0	8.2	26	42	39	21	0.83	0.00
MIN	0.00	0.00	2.8	2.8	3.1	1.0	2.5	14	9.5	0.31	0.00	0.00
AC-FT	0.00	282	489	364	294	257	817	1650	1200	414	9.2	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	9.64	15.4	13.0	22.8	15.9	15.1	14.9	20.1	23.8	7.48	3.80	2.86
MAX	29.3	36.2	34.2	81.6	34.1	29.7	28.8	42.3	50.6	15.6	10.4	10.8
(WY)	1999	1997	1997	1997	1998	1995	1997	1996	1997	1995	1998	1998
MIN	0.000	2.13	2.24	2.02	1.76	1.61	0.58	0.53	7.00	0.53	0.046	0.000
(WY)	2002	1993	1993	1993	1993	1993	1993	1993	1994	1994	2001	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	2931.16		2915.25			
ANNUAL MEAN	8.03		7.99		14.8	
HIGHEST ANNUAL MEAN					26.8	1997
LOWEST ANNUAL MEAN					7.99	2002
HIGHEST DAILY MEAN	55	Apr 24	42	May 8	200	Jan 27 1997
LOWEST DAILY MEAN	0.00	Sep 1	0.00	Oct 1	0.00	Jun 19 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 1	0.00	Oct 1	0.00	Jun 19 1994
ANNUAL RUNOFF (AC-FT)	5810		5780		10750	
10 PERCENT EXCEEDS	17		24		30	
50 PERCENT EXCEEDS	7.0		5.8		10	
90 PERCENT EXCEEDS	0.00		0.00		0.05	

CARSON RIVER BASIN

10310500 CLEAR CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'48", long 119°47'50", in NE $^1/_4$ NW $^1/_4$ sec.1, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank, 3 mi upstream from mouth, and 3.5 mi southwest of Carson City.

DRAINAGE AREA.--15.5 mi^2

PERIOD OF RECORD.--March 1948 to September 1962, occasional low-flow measurements, water years 1963-1988, and annual maximum, water years 1963-1981, January 1989 to current year.

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,000 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 266 ft^3/s, January 2, 1997, gage height, 3.94 ft; minimum daily, 0.42 ft^3/s, August 3, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 22	1000	12	1.57	Nov 24	1130	*19	*1.78
Dec 02	0645	15	1.67	Jan 02	2115	12	1.57
April 08	1015	12	1.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.6	4.7	6.6	3.7	5.3	7.2	5.2	3.2	1.9	1.8	1.7
2	1.7	2.7	9.6	7.5	3.5	5.2	7.4	5.1	3.2	1.9	1.7	1.7
3	1.7	2.7	6.2	7.5	3.6	5.2	7.8	4.9	3.2	2.0	1.7	1.7
4	1.7	2.7	5.6	6.3	3.8	5.2	8.0	5.0	3.1	2.0	1.7	1.7
5	1.7	2.8	5.4	6.3	4.3	5.2	8.0	5.2	3.0	2.0	1.7	1.8
6	1.8	2.8	6.0	7.8	4.8	6.6	7.8	5.2	2.8	2.0	1.7	1.7
7	1.9	2.7	5.8	7.0	5.3	6.7	7.5	5.3	2.8	2.0	1.7	1.7
8	1.8	2.8	5.4	6.7	5.8	6.3	7.5	5.1	2.8	1.9	1.7	1.7
9	1.8	2.7	5.4	6.2	5.1	6.1	7.6	5.0	2.8	1.9	1.7	1.7
10	1.9	2.8	5.2	6.0	4.9	6.2	7.4	5.0	2.7	1.9	1.7	1.7
11	2.0	2.9	5.1	5.9	5.0	6.2	7.4	4.8	2.7	1.9	1.8	1.7
12	2.0	3.4	5.0	5.8	5.0	6.3	7.5	4.8	2.6	2.0	1.8	1.7
13	1.8	3.5	5.1	5.7	5.0	6.1	7.3	5.0	2.5	2.1	1.8	1.7
14	1.8	3.2	5.4	5.6	5.2	6.2	7.4	5.0	2.3	2.2	1.7	1.7
15	1.8	3.2	5.3	5.4	5.1	5.9	7.0	5.0	2.2	2.1	1.8	1.7
16	1.8	3.1	5.2	5.3	5.1	5.8	6.2	4.8	2.2	2.0	1.7	1.7
17	1.9	3.0	6.0	5.2	5.2	5.8	6.4	4.9	2.2	3.2	1.7	1.8
18	2.0	3.2	5.5	5.4	5.0	5.9	6.3	4.8	2.1	3.4	1.8	1.8
19	2.0	3.1	5.3	5.3	5.5	5.9	6.1	4.7	2.2	2.7	1.8	1.8
20	1.8	3.2	5.4	5.2	6.3	6.0	6.1	4.6	2.2	2.3	1.8	1.7
21	1.9	3.9	5.2	5.2	5.7	6.0	5.9	4.8	2.2	2.0	1.8	1.7
22	2.1	7.3	5.3	5.0	5.6	5.9	5.7	4.7	2.1	1.9	1.7	1.7
23	2.0	4.6	5.2	5.0	5.7	6.2	5.4	4.3	2.1	1.8	1.7	1.7
24	2.1	8.3	5.1	5.1	5.6	6.0	5.1	4.2	2.0	1.8	1.7	1.7
25	2.1	5.5	5.1	4.9	5.6	5.8	5.1	4.1	2.0	1.8	1.7	1.7
26	2.1	4.8	5.2	4.9	5.6	5.8	5.3	4.0	2.0	1.8	1.7	1.7
27	2.1	4.6	5.3	4.9	5.5	5.8	5.4	3.8	2.0	1.8	1.7	1.7
28	2.2	4.8	5.9	4.8	5.4	6.1	5.2	3.7	2.0	1.8	1.7	1.8
29	2.3	5.0	6.0	4.7	---	6.4	5.6	3.6	2.0	1.8	1.7	2.0
30	2.8	4.6	6.3	4.1	---	6.7	5.4	3.5	2.0	1.8	1.7	1.9
31	3.0	---	7.8	4.1	---	6.9	---	3.4	---	1.8	1.7	---
TOTAL	61.4	112.5	175.0	175.4	141.9	185.7	198.0	143.5	73.2	63.5	53.6	52.0
MEAN	1.981	3.750	5.645	5.658	5.068	5.990	6.600	4.629	2.440	2.048	1.729	1.733
MAX	3.0	8.3	9.6	7.8	6.3	6.9	8.0	5.3	3.2	3.4	1.8	2.0
MIN	1.7	2.6	4.7	4.1	3.5	5.2	5.1	3.4	2.0	1.8	1.7	1.7
AC-FT	122	223	347	348	281	368	393	285	145	126	106	103

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2002, BY WATER YEAR (WY)

MEAN	3.090	4.441	5.671	7.105	7.272	8.279	9.304	8.372	5.262	3.094	2.437	2.489
MAX	6.54	11.2	15.3	36.3	16.4	19.3	30.9	26.8	15.5	8.09	6.01	5.77
(WY)	1953	1951	1951	1997	1997	1997	1952	1952	1998	1952	1997	1997
MIN	1.31	1.89	2.31	2.13	3.24	3.36	2.80	1.39	1.12	0.75	0.67	1.00
(WY)	1995	1962	1962	1962	1991	1992	1992	1992	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1948 - 2002	
ANNUAL TOTAL	1444.6		1435.7			
ANNUAL MEAN	3.958		3.933		5.616	
HIGHEST ANNUAL MEAN					13.4	1997
LOWEST ANNUAL MEAN					2.09	1992
HIGHEST DAILY MEAN	9.6	Dec 2	9.6	Dec 2	198	Jan 2 1997
LOWEST DAILY MEAN	1.6	Sep 18	1.7	Oct 2	0.42	Aug 3 1992
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 18	1.7	Aug 2	0.44	Aug 3 1992
MAXIMUM PEAK FLOW			19	Nov 24	266	Jan 2 1997
MAXIMUM PEAK STAGE			1.79	Nov 24	3.94	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	2870		2850		4070	
10 PERCENT EXCEEDS	6.1		6.3		11	
50 PERCENT EXCEEDS	3.7		3.9		4.2	
90 PERCENT EXCEEDS	1.8		1.7		1.6	

CARSON RIVER BASIN

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'28", long 119°42'44", in SW $^1/_4$ NW $^1/_4$ sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, on left bank, 2 mi downstream from Clear Creek, 3 mi upstream from Lloyds Bridge on road to Mexican Dam, 5 mi southeast of Carson City Post Office, and at mi 70.40 upstream from Lahontan Dam.

DRAINAGE AREA.--886 mi^2.

PERIOD OF RECORD.--May 1939 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,620.48 ft above NGVD of 1929. Prior to December 23, 1955, water-stage recorder on right bank at datum 1.0 ft higher. December 23, 1955, to March 13, 1956, nonrecording gage at present site at datum 1.0 ft higher. March 14, 1956, to September 30, 1963, water-stage recorder at present site at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft^3/s, January 3, 1997, gage height, 18.43 ft; no flow September 5, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 15	1400	*1500	*4.61				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	52	83	239	153	193	288	416	1160	76	14	11
2	3.8	59	105	210	159	192	284	370	1100	61	13	10
3	4.2	57	220	239	204	182	316	362	870	53	13	9.5
4	3.2	60	161	256	159	177	402	400	757	39	11	12
5	2.7	56	104	215	143	181	561	500	745	29	11	16
6	2.8	54	122	222	157	178	649	632	782	32	15	18
7	3.3	54	140	272	142	242	632	718	750	32	25	15
8	3.5	54	125	281	157	232	560	769	674	31	20	14
9	3.7	55	117	263	151	196	635	796	608	23	16	13
10	4.5	57	120	248	138	206	760	765	500	25	19	13
11	5.1	57	120	234	138	207	761	689	450	19	18	13
12	4.9	58	119	223	143	211	860	683	378	23	14	9.5
13	6.2	67	117	219	143	244	932	733	352	24	15	7.1
14	7.5	76	123	212	144	251	946	759	376	22	15	6.6
15	8.9	74	157	203	144	229	1300	839	357	29	14	6.8
16	10	73	118	172	146	202	1150	e927	340	25	15	8.2
17	15	72	123	160	148	209	862	1020	318	23	12	8.3
18	18	72	141	e155	154	202	728	1170	290	35	8.2	5.9
19	20	74	130	152	150	199	625	1310	242	51	6.9	7.8
20	23	76	130	160	152	197	574	1180	202	50	6.6	14
21	27	81	133	162	163	215	533	943	169	50	7.3	14
22	27	100	126	159	170	216	464	745	193	57	8.0	13
23	29	147	128	e154	183	234	428	593	193	59	6.6	13
24	38	129	130	145	195	249	422	546	171	57	6.7	13
25	39	218	131	158	186	242	435	551	168	44	8.8	13
26	39	136	126	163	185	217	520	577	132	29	11	13
27	44	91	136	158	188	212	608	634	96	15	12	13
28	46	90	144	160	197	218	534	692	88	12	11	16
29	44	89	169	153	---	227	491	710	99	9.5	11	13
30	43	94	173	145	---	225	501	927	85	9.5	12	12
31	46	---	183	158	---	253	---	1090	---	14	10	---
TOTAL	575.9	2432	4154	6050	4492	6638	18761	23046	12645	1058.0	386.1	351.7
MEAN	18.6	81.1	134	195	160	214	625	743	422	34.1	12.5	11.7
MAX	46	218	220	281	204	253	1300	1310	1160	76	25	18
MIN	2.7	52	83	145	138	177	284	362	85	9.5	6.6	5.9
AC-FT	1140	4820	8240	12000	8910	13170	37210	45710	25080	2100	766	698

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	97.8	206	285	369	390	419	610	1193	971	269	58.8	47.3
MAX	527	1693	1992	3171	2115	1573	1467	3129	4099	1764	657	281
(WY)	1983	1951	1951	1997	1986	1986	1982	1969	1983	1995	1983	1983
MIN	7.69	46.6	52.4	76.4	62.7	73.7	46.4	93.9	47.7	11.6	2.81	1.96
(WY)	1978	1978	1989	1991	1991	1977	1977	1977	1988	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	55988.8		80589.7			
ANNUAL MEAN	153		221		409	
HIGHEST ANNUAL MEAN					1142	1983
LOWEST ANNUAL MEAN					58.5	1977
HIGHEST DAILY MEAN	1070	May 13	1310	May 19	26100	Jan 3 1997
LOWEST DAILY MEAN	2.7	Oct 5	2.7	Oct 5	0.00	Sep 5 1992
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 5	3.3	Oct 3	1.5	Aug 24 1992
MAXIMUM PEAK FLOW			1500	Apr 15	30500	Jan 3 1997
MAXIMUM PEAK STAGE			4.61	Apr 15	18.43	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	111100		159800		296500	
10 PERCENT EXCEEDS	405		678		1090	
50 PERCENT EXCEEDS	113		142		181	
90 PERCENT EXCEEDS	4.3		10		21	

e Estimated

CARSON RIVER BASIN

10311089 NORTH FORK KINGS CANYON DIVERSION NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'18", long 119°48'58", in NE $^1/_4$ NW $^1/_4$ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank, 2.9 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA--1.83 mi^2.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,530 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Periodic regulation for municipal use. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5.7 ft^3/s, January 7, 1997, maximum gage height, 3.96 ft, January 2, 1997; no flow at times, some years, due to head gate regulation upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.72	0.70	0.64	0.70	e0.70	0.75	0.77	0.67	0.50	1.4	1.3	1.1
2	0.38	0.72	0.88	0.71	e0.42	0.48	0.79	0.66	1.1	1.4	1.3	1.1
3	0.23	0.52	1.0	0.70	e0.70	e0.90	0.82	0.68	1.2	0.70	0.87	1.1
4	0.23	0.80	0.92	0.70	e0.70	0.86	0.92	0.45	0.93	0.44	1.3	1.1
5	0.34	0.81	0.82	0.44	e0.70	0.74	0.99	0.70	0.41	0.43	1.3	1.1
6	0.71	0.77	0.77	0.70	e0.70	0.76	0.66	0.71	0.27	0.63	1.3	1.1
7	0.74	0.74	0.77	0.70	e0.70	0.77	0.94	0.72	0.28	1.3	1.3	0.69
8	0.74	0.74	0.48	0.70	e0.60	0.77	0.95	0.70	0.47	1.3	1.3	1.1
9	0.46	0.74	0.74	0.70	e0.48	0.53	0.93	0.70	1.2	1.3	1.3	1.1
10	0.23	0.49	0.76	0.70	e0.55	0.77	0.91	0.70	1.2	0.69	0.87	1.1
11	0.23	0.74	0.77	0.70	e0.62	0.78	0.89	0.45	1.2	0.84	1.2	1.1
12	0.36	0.74	0.73	0.44	e0.70	0.80	0.92	0.70	0.71	1.3	1.2	1.1
13	0.74	0.74	0.70	0.70	0.78	0.80	0.70	0.70	0.41	0.89	1.2	1.1
14	0.74	0.74	0.69	0.70	0.74	0.79	1.1	0.70	0.42	1.3	1.3	0.67
15	0.67	0.74	0.71	e0.70	0.74	0.79	0.96	0.40	0.60	1.2	1.3	0.99
16	0.36	0.74	0.86	e0.70	0.49	0.54	0.74	0.21	1.2	1.2	1.3	0.99
17	0.20	0.55	0.70	e0.70	0.76	0.75	0.67	0.22	1.2	1.1	0.84	0.99
18	0.20	0.90	0.70	e0.70	0.77	0.86	0.69	0.35	1.3	1.1	1.2	0.99
19	0.38	0.92	0.70	0.53	0.78	0.85	0.67	0.70	0.74	1.2	1.2	0.99
20	0.67	0.92	0.70	0.69	0.78	0.85	0.42	0.71	0.45	0.83	1.2	0.99
21	0.67	0.96	0.70	0.70	0.77	0.86	0.66	0.72	0.45	1.3	1.2	0.64
22	0.67	1.0	0.44	0.70	0.77	0.86	0.63	0.73	0.65	1.3	1.2	0.98
23	0.27	1.0	0.68	e0.70	0.49	0.56	0.61	0.43	1.3	1.3	1.2	0.99
24	e0.23	0.76	0.66	e0.65	0.74	0.81	0.63	0.20	1.3	1.3	0.81	0.98
25	e0.23	1.1	0.63	e0.58	0.74	0.81	0.64	0.33	1.3	1.3	1.1	0.96
26	0.23	1.1	0.63	e0.46	0.74	0.79	0.66	0.77	0.68	1.3	1.1	0.96
27	0.35	1.0	0.63	e0.55	0.75	0.77	0.37	0.77	0.42	0.90	1.1	1.0
28	0.70	0.96	0.66	e0.65	0.76	0.77	0.61	0.77	0.42	1.3	1.1	0.66
29	0.70	0.96	0.44	e0.70	---	0.77	0.65	0.41	0.60	1.3	1.2	1.0
30	0.71	0.96	0.69	e0.70	---	0.53	0.67	0.29	1.3	1.3	1.1	1.0
31	0.71	---	0.70	e0.70	---	0.80	---	0.31	---	1.3	0.78	---
TOTAL	14.80	24.56	21.90	20.40	19.17	23.47	22.57	17.56	24.21	34.45	35.97	29.67
MEAN	0.477	0.819	0.706	0.658	0.685	0.757	0.752	0.566	0.807	1.111	1.160	0.989
MAX	0.74	1.1	1.0	0.71	0.78	0.90	1.1	0.77	1.3	1.4	1.3	1.1
MIN	0.20	0.49	0.44	0.44	0.42	0.48	0.37	0.20	0.27	0.43	0.78	0.64
AC-FT	29	49	43	40	38	47	45	35	48	68	71	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	1.283	1.686	1.472	1.306	1.184	1.311	1.327	1.315	1.709	1.716	1.449	1.143
MAX	3.31	3.69	3.05	3.15	2.52	3.08	3.17	3.77	4.65	4.50	3.25	2.66
(WY)	1999	1996	1997	1998	1998	1999	1997	1997	1996	1996	1995	1996
MIN	0.32	0.28	0.29	0.29	0.33	0.38	0.22	0.17	0.23	0.23	0.20	0.26
(WY)	1992	1993	1992	1992	1992	1992	1989	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1989 - 2002
ANNUAL TOTAL	297.53	288.73	
ANNUAL MEAN	0.815	0.791	1.437
HIGHEST ANNUAL MEAN			2.90 1996
LOWEST ANNUAL MEAN			0.31 1992
HIGHEST DAILY MEAN	1.5 Jan 8	1.4 Jul 1	5.7 Jan 7 1997
LOWEST DAILY MEAN	0.20 Oct 17	0.20 Oct 17	0.00 Mar 9 1995
ANNUAL SEVEN-DAY MINIMUM	0.38 Oct 21	0.38 Oct 21	0.11 May 17 1992
ANNUAL RUNOFF (AC-FT)	590	573	1040
10 PERCENT EXCEEDS	1.4	1.2	3.2
50 PERCENT EXCEEDS	0.77	0.74	0.97
90 PERCENT EXCEEDS	0.31	0.43	0.29

e Estimated

10311090 NORTH FORK KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'17" long 119°48'58" in NE $^1/_4$ NW $^1/_4$ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on right bank, off Kings Canyon Road, 2.9 mi west of Carson Street.

DRAINAGE AREA.--1.83 mi^2.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,530 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Periodic diversions for municipal use. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft^3/s, January 2, 1997, gage height, 3.96 ft; no flow at times, most years, due to gate regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.6 ft^3/s, November 24, gage height, 1.93 ft; minimum daily, 0.14 ft^3/s, December 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.46	0.66	0.33	e0.30	0.47	0.46	0.33	0.91	0.40	0.33	0.38
2	0.72	0.46	0.34	0.43	e0.50	e0.65	0.49	0.32	0.32	0.38	0.33	0.41
3	0.87	0.66	0.14	0.38	e0.30	e0.45	0.52	0.36	0.27	0.83	0.67	0.41
4	0.88	0.46	0.34	0.33	e0.30	0.35	0.49	0.62	0.38	1.0	0.36	0.40
5	0.76	0.46	0.27	0.61	e0.30	0.43	0.41	0.37	0.86	1.0	0.33	0.43
6	0.36	0.46	0.32	0.52	e0.30	0.47	0.65	0.40	1.1	0.84	0.41	0.43
7	0.36	0.46	0.27	0.40	e0.30	0.45	0.36	0.39	1.1	0.33	0.61	0.78
8	0.35	0.46	0.53	0.40	0.38	0.43	0.35	0.37	0.90	0.33	0.33	0.40
9	0.65	0.46	0.27	0.37	0.55	0.63	0.40	0.35	0.40	0.33	0.33	0.40
10	0.89	0.67	0.27	0.33	0.39	0.40	0.42	0.33	0.36	0.78	0.64	0.40
11	0.90	0.45	0.27	0.33	0.36	0.42	0.44	0.57	0.33	0.66	0.33	0.40
12	0.78	0.46	0.27	0.56	0.36	0.43	0.38	0.33	0.75	0.28	0.33	0.37
13	0.37	0.41	0.31	0.33	0.33	0.40	0.68	0.36	1.1	0.64	0.33	0.36
14	0.36	0.40	e0.30	0.33	0.33	0.41	0.40	0.33	1.0	0.27	0.32	0.73
15	0.41	0.40	e0.50	0.36	0.33	e0.40	0.27	0.63	0.90	0.27	0.30	0.39
16	0.62	0.40	e0.30	e0.30	0.57	0.66	0.35	0.82	0.36	0.30	0.30	0.41
17	0.90	0.66	0.34	e0.30	0.33	0.36	0.35	0.82	0.33	0.44	0.62	0.42
18	0.90	0.43	0.27	e0.30	0.33	0.34	0.29	0.70	0.33	0.47	0.30	0.42
19	0.90	0.40	0.27	e0.45	0.36	0.31	0.31	0.36	0.83	0.36	0.31	0.42
20	0.78	0.38	0.27	e0.30	0.40	0.33	0.55	0.33	1.1	0.75	0.32	0.40
21	0.43	0.45	0.27	e0.30	0.35	0.33	0.35	0.33	1.1	0.36	0.32	0.73
22	0.42	0.52	0.55	e0.30	0.36	0.33	0.37	0.33	0.93	0.33	0.31	0.38
23	0.43	0.33	0.27	e0.30	0.63	0.58	0.39	0.61	0.36	0.33	0.31	0.37
24	0.70	0.77	0.30	e0.30	0.33	0.33	0.40	0.82	0.33	0.33	0.66	0.37
25	0.77	0.33	0.33	e0.30	0.33	0.33	0.40	0.70	0.33	0.33	0.33	0.39
26	0.88	0.29	0.37	0.53	0.33	0.33	0.41	0.30	0.87	0.33	0.33	0.39
27	0.77	0.30	0.39	0.42	0.33	0.37	0.64	0.30	1.1	0.65	0.33	0.36
28	0.45	0.39	0.37	e0.30	0.33	0.40	0.33	0.31	1.1	0.33	0.32	0.68
29	0.46	0.41	0.59	e0.30	---	0.42	0.39	0.69	0.93	0.33	0.31	0.37
30	0.50	0.35	0.37	e0.30	---	0.64	0.33	0.94	0.40	0.33	0.37	0.34
31	0.46	---	0.39	e0.30	---	0.45	---	1.1	---	0.32	0.73	---
TOTAL	19.39	13.54	10.71	11.31	10.31	13.30	12.58	15.52	21.08	14.63	12.12	13.14
MEAN	0.625	0.451	0.345	0.365	0.368	0.429	0.419	0.501	0.703	0.472	0.391	0.438
MAX	0.90	0.77	0.66	0.61	0.63	0.66	0.68	1.1	1.1	1.0	0.73	0.78
MIN	0.35	0.29	0.14	0.30	0.30	0.31	0.27	0.30	0.27	0.27	0.30	0.34
AC-FT	38	27	21	22	20	26	25	31	42	29	24	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	0.915	0.493	0.394	0.563	0.368	0.427	0.472	0.636	0.709	0.807	0.892	0.914
MAX	1.92	0.82	0.55	3.09	0.53	0.80	1.02	1.09	1.99	2.12	1.68	1.82
(WY)	1999	1999	1992	1997	1992	1995	1989	1989	1997	1997	1997	1997
MIN	0.38	0.25	0.20	0.15	0.16	0.18	0.24	0.48	0.38	0.29	0.22	0.24
(WY)	1993	1995	1993	1995	1993	1993	1993	1994	1990	1994	1994	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	179.67		167.63			
ANNUAL MEAN	0.492		0.459		0.628	
HIGHEST ANNUAL MEAN					1.25	1997
LOWEST ANNUAL MEAN					0.40	1994
HIGHEST DAILY MEAN	1.0	May 10	1.1	May 31	34	Jan 2 1997
LOWEST DAILY MEAN	0.00	Jan 17	0.14	Dec 3	0.00	Feb 25 1990
ANNUAL SEVEN-DAY MINIMUM	0.11	Jan 17	0.31	Dec 3	0.00	Dec 24 1997
MAXIMUM PEAK FLOW			1.6	Nov 24	140	Jan 2 1997
MAXIMUM PEAK STAGE			1.93	Nov 24	3.96	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	356		332		455	
10 PERCENT EXCEEDS	0.88		0.78		1.4	
50 PERCENT EXCEEDS	0.42		0.38		0.40	
90 PERCENT EXCEEDS	0.21		0.30		0.16	

e Estimated

CARSON RIVER BASIN

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NE $^1/_4$ NE $^1/_4$ sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on right bank, off Kings Canyon Road, 2 mi west of Carson Street.

DRAINAGE AREA.--4.06 mi^2.

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,180 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Diversion for municipal use above station. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 276 ft^3/s, January 2, 1997, gage height, 5.42 ft; maximum gage height, 5.44 ft, February19, 1986; minimum daily, 0.02 ft^3/s, August 1, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.3 ft^3/s, November 24, gage height, 4.01 ft; minimum daily, 0.14 ft^3/s, July 02.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.85	0.70	0.67	0.66	0.56	0.60	0.85	0.94	1.1	0.19	0.31	0.24
2	0.81	0.71	1.00	0.81	0.65	0.71	0.86	0.92	0.64	0.14	0.31	0.29
3	1.0	0.82	0.57	0.76	0.58	0.56	0.87	0.91	0.58	0.62	0.71	0.32
4	1.1	0.72	0.54	0.67	0.55	0.63	0.84	1.0	0.73	0.86	0.40	0.33
5	1.1	0.69	0.58	0.82	0.51	0.70	0.71	0.93	1.00	0.90	0.36	0.35
6	1.1	0.71	0.66	0.83	0.48	0.84	0.84	0.92	1.1	0.75	0.39	0.39
7	0.79	0.66	0.58	0.69	0.60	0.86	0.69	0.92	1.1	0.28	0.38	0.74
8	0.84	0.66	0.69	0.65	0.67	0.74	0.69	0.91	0.98	0.25	0.35	0.51
9	0.89	0.65	0.56	0.62	0.77	0.92	0.70	0.89	0.68	0.23	0.31	0.47
10	0.98	0.73	0.54	0.60	0.69	0.94	0.70	0.88	0.64	0.65	0.67	0.43
11	1.1	0.64	0.53	0.58	0.66	0.93	0.71	0.97	0.62	0.55	0.34	0.38
12	1.1	0.63	0.54	0.70	0.64	0.92	0.69	0.83	0.86	0.21	0.33	0.38
13	0.98	0.59	0.64	0.59	0.64	0.87	0.83	0.82	1.0	0.57	0.30	0.34
14	0.75	0.57	0.66	0.58	0.65	0.87	0.65	0.81	1.0	0.26	0.29	0.59
15	0.68	0.54	0.65	0.50	0.63	0.84	0.58	0.92	0.94	0.23	0.27	0.39
16	0.69	0.51	0.65	0.49	0.76	0.91	0.65	1.0	0.60	0.23	0.24	0.41
17	0.82	0.62	0.75	0.56	0.65	0.76	0.75	1.0	0.52	0.44	0.61	0.38
18	0.92	0.51	0.66	0.51	0.64	0.81	0.74	0.94	0.49	0.63	0.32	0.39
19	0.87	0.49	0.64	0.67	0.69	0.85	0.85	0.78	0.79	0.48	0.28	0.39
20	0.85	0.45	0.59	0.58	0.73	0.84	1.0	0.81	0.97	0.94	0.31	0.37
21	0.74	0.57	0.57	0.59	0.68	0.83	0.93	0.81	1.0	0.69	0.32	0.64
22	0.69	0.82	0.71	0.54	0.68	0.80	0.94	0.79	0.90	0.54	0.32	0.39
23	0.70	0.44	0.60	0.50	0.81	0.97	0.95	0.93	0.51	0.59	0.33	0.38
24	0.82	0.97	0.59	0.54	0.67	0.82	0.92	1.0	0.43	0.53	0.70	0.38
25	0.89	0.47	0.60	0.56	0.66	0.80	0.92	0.94	0.40	0.52	0.40	0.38
26	0.87	0.44	0.61	0.66	0.65	0.81	0.95	0.76	0.76	0.46	0.39	0.39
27	0.84	0.46	0.61	0.56	0.65	0.82	1.1	0.74	0.94	0.84	0.38	0.39
28	0.69	0.52	0.65	0.52	0.64	0.81	0.93	0.74	1.0	0.46	0.36	0.72
29	0.66	0.55	0.77	0.50	---	0.82	0.99	0.95	0.88	0.42	0.34	0.53
30	0.74	0.49	0.68	0.44	---	0.96	0.94	1.2	0.36	0.37	0.33	0.53
31	0.73	---	0.75	0.55	---	0.84	---	1.3	---	0.33	0.45	---
TOTAL	26.59	18.33	19.84	18.83	18.19	25.38	24.77	28.26	23.52	15.16	11.80	12.82
MEAN	0.858	0.611	0.640	0.607	0.650	0.819	0.826	0.912	0.784	0.489	0.381	0.427
MAX	1.1	0.97	1.0	0.83	0.81	0.97	1.1	1.3	1.1	0.94	0.71	0.74
MIN	0.66	0.44	0.53	0.44	0.48	0.56	0.58	0.74	0.36	0.14	0.24	0.24
AC-FT	53	36	39	37	36	50	49	56	47	30	23	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

MEAN	1.366	1.193	1.121	1.372	1.621	1.597	1.357	1.174	1.553	1.503	1.413	1.293
MAX	5.69	5.41	5.13	7.96	6.86	4.41	4.33	4.53	8.29	8.01	7.04	4.97
(WY)	1984	1984	1984	1997	1986	1983	1982	1983	1983	1983	1983	1983
MIN	0.13	0.16	0.17	0.19	0.30	0.37	0.28	0.24	0.22	0.093	0.075	0.15
(WY)	1993	1993	1994	1993	1993	1992	1993	1992	1992	1994	1994	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1976 - 2002	
ANNUAL TOTAL	263.61		243.49			
ANNUAL MEAN	0.722		0.667		1.388	
HIGHEST ANNUAL MEAN					4.58	1983
LOWEST ANNUAL MEAN					0.35	1992
HIGHEST DAILY MEAN	1.3	May 11	1.3	May 31	66	Jan 2 1997
LOWEST DAILY MEAN	0.34	Jul 24	0.14	Jul 2	0.02	Aug 1 1994
ANNUAL SEVEN-DAY MINIMUM	0.47	Feb 7	0.33	Aug 29	0.05	Oct 17 1992
MAXIMUM PEAK FLOW			2.3	Nov 24	276	Jan 2 1997
MAXIMUM PEAK STAGE			4.01	Nov 24	5.44	Feb 19 1986
ANNUAL RUNOFF (AC-FT)	523		483		1010	
10 PERCENT EXCEEDS	1.0		0.94		3.1	
50 PERCENT EXCEEDS	0.71		0.66		0.88	
90 PERCENT EXCEEDS	0.44		0.36		0.28	

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'17", in NW $^1/_4$ SW $^1/_4$ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank, 2 mi west of intersection of Carson and Bath Streets.

DRAINAGE AREA.--5.20 mi^2.

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,080 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Daily flows and peak flows may be influenced by intermittent diversions from Marlette Lake and Hobart Reservoir. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 330 ft^3/s, January 2, 1997, gage height, 4.95 ft; minimum daily, 0.47 ft^3/s, August 19, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4.0 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 24	1115	16	3.95	April 15	1030	12	3.89
Feb 12	1015	7.6	3.81				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	2.2	2.4	2.6	1.7	2.7	3.1	2.9	2.9	1.3	1.2	1.3
2	1.3	1.8	3.5	3.3	1.5	5.0	3.2	3.0	2.6	e1.2	1.3	1.3
3	1.3	1.4	1.9	2.3	1.4	5.4	3.7	3.7	2.5	1.3	1.3	1.3
4	1.3	1.5	1.6	2.6	1.4	5.5	4.6	3.8	2.5	e1.2	1.3	1.3
5	1.3	1.5	1.7	3.8	1.5	2.7	5.0	4.0	2.2	1.1	1.3	1.3
6	1.3	1.5	1.8	4.1	1.5	2.3	4.3	4.3	2.2	1.2	1.3	1.4
7	1.4	1.6	1.6	2.9	1.5	2.0	4.1	4.6	2.2	e1.2	1.3	1.3
8	1.4	1.6	1.5	2.9	1.8	1.8	4.4	3.9	2.2	e1.2	1.3	1.3
9	1.5	1.4	1.5	3.1	3.6	1.5	4.8	3.8	2.3	e1.2	1.3	1.2
10	1.5	1.5	1.5	3.8	3.8	1.4	4.4	3.8	2.2	e1.2	1.3	1.2
11	1.4	1.9	1.5	3.7	3.8	1.4	4.6	3.6	2.1	e1.2	1.3	1.2
12	1.5	3.5	2.0	3.7	4.1	1.6	4.9	3.6	2.0	1.5	1.3	1.1
13	1.4	4.8	3.0	3.6	3.9	1.7	4.9	3.7	1.8	e1.6	1.3	1.1
14	1.4	6.0	3.5	3.0	3.9	1.5	6.1	3.9	1.8	e1.7	1.3	1.1
15	1.4	6.1	4.4	2.7	3.8	2.1	5.3	4.0	1.8	e1.5	1.3	1.1
16	1.4	5.7	4.3	2.7	3.7	1.6	3.7	3.8	1.7	1.6	1.3	1.2
17	1.4	5.6	3.4	2.8	3.0	1.5	3.4	3.9	1.7	2.1	1.3	1.3
18	1.4	5.5	3.4	2.4	1.9	1.5	3.1	3.8	1.7	2.2	1.3	1.3
19	1.5	3.3	3.7	2.4	1.8	1.7	2.9	3.8	1.7	1.7	1.3	1.3
20	1.4	1.5	3.6	2.6	2.6	1.8	2.8	3.5	1.7	1.4	1.3	1.3
21	1.4	3.1	3.5	2.5	2.2	1.9	3.3	3.3	1.6	e1.2	1.4	1.2
22	1.5	4.0	3.6	2.4	2.2	1.7	3.5	3.1	1.5	1.2	1.5	1.2
23	1.4	1.3	3.3	2.3	2.3	1.6	3.7	3.0	1.4	e1.2	1.4	1.2
24	1.3	4.3	2.8	2.6	2.1	1.5	4.1	2.9	1.4	e1.2	1.3	1.2
25	1.5	2.6	2.8	2.5	2.0	1.4	6.8	2.9	1.4	1.3	1.4	1.2
26	1.5	2.1	2.8	2.6	2.0	1.5	7.4	2.9	1.4	1.3	1.4	1.3
27	1.6	1.9	3.1	2.7	2.1	1.5	4.9	3.0	1.3	1.3	1.4	1.3
28	1.6	1.8	2.5	2.1	2.1	1.6	3.6	3.3	1.3	1.1	1.3	1.3
29	1.5	2.6	3.3	1.8	---	1.7	3.9	3.4	1.2	1.2	1.3	1.4
30	1.7	2.3	3.5	1.9	---	1.8	3.8	3.3	1.2	1.2	1.3	1.4
31	2.2	---	1.9	2.0	---	2.1	---	3.0	---	1.2	1.3	---
TOTAL	45.0	85.9	84.9	86.4	69.2	65.0	128.3	109.5	55.5	42.0	40.9	37.6
MEAN	1.452	2.863	2.739	2.787	2.471	2.097	4.277	3.532	1.850	1.355	1.319	1.253
MAX	2.2	6.1	4.4	4.1	4.1	5.5	7.4	4.6	2.9	2.2	1.5	1.4
MIN	1.3	1.3	1.5	1.8	1.4	1.4	2.8	2.9	1.2	1.1	1.2	1.1
AC-FT	89	170	168	171	137	129	254	217	110	83	81	75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2002, BY WATER YEAR (WY)

MEAN	2.609	2.996	3.039	3.193	3.380	3.732	4.181	5.409	5.516	3.393	2.565	2.339
MAX	6.03	7.57	9.32	11.5	8.82	7.48	7.59	11.8	19.6	12.6	9.25	6.49
(WY)	1984	1984	1997	1997	1986	1986	1997	1984	1983	1983	1983	1983
MIN	0.96	1.06	1.45	1.66	1.61	1.59	1.74	1.40	0.83	0.65	0.54	0.67
(WY)	1993	1993	1995	1991	1993	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1976 - 2002	
ANNUAL TOTAL	873.2		850.2			
ANNUAL MEAN	2.392		2.329		3.540	
HIGHEST ANNUAL MEAN					7.77	1983
LOWEST ANNUAL MEAN					1.26	1992
HIGHEST DAILY MEAN	6.1	Nov 15	7.4	Apr 26	70	Jan 2 1997
LOWEST DAILY MEAN	1.1	Aug 16	1.1	Jul 5	0.47	Aug 19 1992
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 24	1.1	Sep 9	0.49	Jul 29 1992
MAXIMUM PEAK FLOW			16	Nov 24	330	Jan 2 1997
MAXIMUM PEAK STAGE			3.95	Nov 24	4.95	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	1730		1690		2560	
10 PERCENT EXCEEDS	3.7		3.9		6.7	
50 PERCENT EXCEEDS	2.3		1.8		2.7	
90 PERCENT EXCEEDS	1.3		1.3		1.3	

e Estimated

10311300 EAGLE VALLEY CREEK AT CARSON CITY, NV

LOCATION.--Lat 39°09'56", long 119°43'23", in SE $^1/_4$ NW $^1/_4$ sec.15, T.15 N. R.20 E., Carson City, Hydrologic Unit 16050201, on left bank, 100 ft downstream from North Edmonds Drive, and 1.1 mi south of intersection with U.S. Highway 50.

DRAINAGE AREA.--34.4 mi^2.

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,620 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Flows prior to September 1986 included effluent discharge from Carson City Water Treatment Plant. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft^3/s, February 19, 1986, gage height, 8.85 ft; maximum gage height, 9.32 ft, January 2, 1997; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft^3/s, December 02, gage height, 7.44 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.11	0.85	3.7	1.2	0.87	0.46	0.46	0.14	0.00	0.03	e0.00
2	0.04	0.06	69	9.1	0.94	0.84	0.44	0.42	0.13	0.00	0.00	e0.00
3	0.04	0.07	20	5.8	0.91	0.84	0.44	0.37	0.13	0.00	0.02	e0.00
4	0.04	0.07	8.1	1.4	0.90	0.88	0.55	0.33	0.09	0.00	0.01	e0.00
5	0.04	0.09	6.3	1.3	0.91	1.2	0.56	0.28	0.06	0.00	0.00	0.00
6	0.05	0.09	5.9	3.6	0.89	3.2	0.53	0.29	0.06	0.00	0.00	0.00
7	0.06	0.08	2.8	1.3	3.3	16	0.58	0.27	0.05	0.00	0.00	0.00
8	0.06	0.08	2.0	1.5	8.6	2.4	0.58	0.38	0.05	0.00	0.00	0.00
9	0.06	0.08	1.6	1.3	0.56	0.62	0.49	0.51	0.05	0.00	0.00	0.00
10	0.07	0.10	2.1	1.8	0.48	0.40	0.36	0.41	0.06	0.00	0.00	0.00
11	0.07	0.13	1.4	1.5	0.54	0.37	0.42	0.23	0.06	0.00	0.11	0.00
12	0.08	0.14	0.98	1.3	0.61	0.38	0.41	0.28	0.06	0.0	0.02	0.00
13	0.07	0.17	0.98	1.1	0.64	0.37	0.41	0.30	0.05	3.6	0.00	0.00
14	0.08	0.15	11	0.98	0.89	0.34	0.43	0.31	0.04	2.7	0.00	0.00
15	0.10	e0.17	1.8	0.81	0.65	0.33	0.43	0.33	0.04	0.28	0.22	0.00
16	0.10	e0.18	1.3	0.83	0.66	0.33	0.54	0.38	0.03	0.12	0.05	0.00
17	0.09	e0.20	8.1	1.0	0.69	0.37	0.94	0.42	0.03	0.08	0.02	0.00
18	0.06	e0.20	2.0	0.94	0.73	0.52	0.79	0.36	0.07	0.11	0.00	0.00
19	0.02	e0.20	1.1	0.80	0.82	0.39	0.64	0.41	0.06	0.25	0.00	0.00
20	0.01	0.34	1.1	0.81	0.74	0.34	0.57	0.41	0.13	0.16	1.7	0.00
21	0.02	e0.80	1.1	0.91	0.74	0.38	0.51	0.55	0.07	0.13	0.00	0.01
22	0.03	e1.7	0.91	0.54	0.76	0.39	2.1	0.51	0.04	0.20	0.00	0.01
23	0.04	e1.0	1.3	0.61	0.76	0.42	0.51	0.48	0.02	0.09	0.00	0.01
24	0.04	e40	0.96	0.79	0.76	0.40	0.46	0.47	0.00	0.11	0.00	0.01
25	0.06	e1.0	0.92	0.92	0.78	0.42	0.43	0.41	0.00	0.03	0.00	0.01
26	0.06	e1.1	1.0	0.93	0.80	0.47	0.90	0.31	0.00	0.24	0.00	0.01
27	0.06	e0.70	e1.3	1.0	0.78	0.45	0.75	0.27	0.00	0.08	e0.00	0.01
28	0.07	0.67	9.2	0.89	0.80	0.49	0.55	0.27	0.00	0.13	e0.00	0.01
29	0.08	1.2	6.2	0.98	---	0.49	4.7	0.27	0.00	0.32	0.00	0.01
30	0.09	0.99	2.0	1.1	---	0.51	0.78	0.38	0.00	0.16	e0.00	0.01
31	1.2	---	16	1.0	---	0.47	---	0.19	---	0.08	e0.00	---
TOTAL	2.93	51.87	189.30	50.54	31.84	35.88	22.26	11.26	1.52	8.87	2.18	0.10
MEAN	0.095	1.729	6.106	1.630	1.137	1.157	0.742	0.363	0.051	0.286	0.070	0.003
MAX	1.2	40	69	9.1	8.6	16	4.7	0.55	0.14	3.6	1.7	0.01
MIN	0.01	0.06	0.85	0.54	0.48	0.33	0.36	0.19	0.00	0.00	0.00	0.00
AC-FT	5.8	103	375	100	63	71	44	22	3.0	18	4.3	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	1.468	2.252	3.889	9.113	10.71	6.499	2.435	1.878	1.909	0.707	0.595	1.122
MAX	11.8	7.98	25.4	81.9	91.9	24.5	11.5	9.20	9.67	5.52	3.84	5.52
(WY)	1987	1987	1997	1997	1986	1986	1986	1986	1986	1986	1986	1987
MIN	0.095	0.24	0.25	0.25	0.42	0.35	0.15	0.17	0.051	0.024	0.012	0.003
(WY)	2002	1991	1995	1994	1991	1988	1994	1992	2002	1988	1988	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	397.21		408.55			
ANNUAL MEAN	1.088		1.119		3.401	
HIGHEST ANNUAL MEAN					15.7	1986
LOWEST ANNUAL MEAN					0.42	1991
HIGHEST DAILY MEAN	69	Dec 2	69	Dec 2	775	Jan 2 1997
LOWEST DAILY MEAN	0.00	Aug 19	0.00	Jun 24	0.00	Jul 1 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 19	0.00	Jun 24	0.00	Jul 1 1988
MAXIMUM PEAK FLOW			280	Dec 2	1110	Feb 19 1986
MAXIMUM PEAK STAGE			7.44	Dec 2	9.32	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	788		810		2460	
10 PERCENT EXCEEDS	1.1		1.4		7.6	
50 PERCENT EXCEEDS	0.33		0.33		0.44	
90 PERCENT EXCEEDS	0.02		0.00		0.07	

e Estimated

10311400 CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'52", long 119°41'40", in SW $^1/_4$ NW $^1/_4$ sec.12, T.15 N. R.20 E., Carson City, Hydrologic Unit 16050202, on right bank, just downstream from Deer Run Road, 500 ft south of Brunswick Road, 4 mi east of Carson City, and at mi 63.36 upstream from Lahontan Dam.

DRAINAGE AREA.--958 mi^2.

PERIOD OF RECORD.--April 1979 to September 1985, August 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair including estimated daily discharges. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 24,000 ft^3/s, January 3, 1997, gage height 24.23 ft; no flow at times, some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December, 1955 is believed to have been approximately 30,000 ft^3/s, based on slope-area measurement made at gaging station 5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 15	1615	*1440	*7.80				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	8.5	114	238	161	221	296	375	1000	56	4.6	2.1
2	0.00	15	171	223	156	221	281	328	986	42	4.9	2.6
3	0.00	18	255	239	148	205	330	308	794	36	4.2	1.9
4	0.00	22	203	254	150	197	415	352	686	29	3.1	1.5
5	0.00	23	141	213	151	202	539	456	678	23	2.3	3.3
6	0.00	25	146	215	154	199	579	577	709	17	1.8	6.7
7	0.00	29	177	251	157	263	567	638	686	17	2.1	5.4
8	0.00	26	159	272	178	255	529	687	618	17	3.3	5.4
9	0.00	27	144	257	174	213	595	721	563	14	2.6	4.7
10	0.00	40	146	243	150	218	701	695	478	12	1.8	5.5
11	0.00	38	144	234	148	218	668	636	432	11	2.9	5.6
12	0.00	29	141	216	153	218	732	617	368	9.4	4.6	5.5
13	0.00	35	137	222	155	244	826	665	341	e10	3.2	4.3
14	0.00	55	147	215	154	264	821	683	366	e9.4	5.5	3.5
15	0.00	64	149	200	155	247	1150	747	351	e14	5.6	1.4
16	0.00	61	130	190	158	220	1100	830	337	e11	4.9	0.85
17	0.00	57	136	178	159	224	811	903	317	e9.0	4.9	1.1
18	0.00	53	165	159	168	218	686	1030	300	11	1.9	1.5
19	0.00	52	150	164	162	215	592	1170	260	20	1.5	1.4
20	0.00	52	143	160	162	210	539	1090	223	26	1.1	1.3
21	0.00	54	149	179	175	229	500	876	167	24	0.88	3.1
22	0.02	95	138	173	188	230	437	702	172	31	0.88	4.0
23	0.06	160	140	159	203	242	391	572	179	34	0.83	3.9
24	1.4	196	139	145	224	259	384	517	159	33	0.87	4.9
25	2.6	245	139	167	208	254	390	514	149	26	0.94	4.2
26	3.3	196	132	186	203	236	479	541	110	18	0.85	4.5
27	3.3	136	143	173	205	224	551	576	75	13	2.1	4.2
28	5.8	127	157	156	222	229	489	630	66	7.8	2.6	5.0
29	6.2	123	189	151	---	241	443	639	76	5.9	2.3	6.7
30	6.3	131	196	140	---	236	448	799	65	5.0	2.5	6.0
31	6.6	---	211	145	---	274	---	956	---	4.1	3.5	---
TOTAL	35.58	2192.5	4831	6117	4781	7126	17269	20830	11711	595.6	85.05	112.05
MEAN	1.15	73.1	156	197	171	230	576	672	390	19.2	2.74	3.73
MAX	6.6	245	255	272	224	274	1150	1170	1000	56	5.6	6.7
MIN	0.00	8.5	114	140	148	197	281	308	65	4.1	0.83	0.85
AC-FT	71	4350	9580	12130	9480	14130	34250	41320	23230	1180	169	222

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

MEAN	129	243	300	494	450	518	676	1313	1106	396	84.2	57.8
MAX	534	1086	987	3106	1134	1147	1407	2273	4319	1770	669	259
(WY)	1983	1984	1984	1997	1982	1995	1982	1983	1983	1995	1983	1983
MIN	1.15	44.6	57.7	83.4	64.8	146	168	144	23.5	3.75	0.43	0.000
(WY)	2002	1991	1991	1991	1991	1992	1994	1992	1992	1994	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1979 - 2002	
ANNUAL TOTAL	54051.10		75685.78			
ANNUAL MEAN	148		207		485	
HIGHEST ANNUAL MEAN					1178	1983
LOWEST ANNUAL MEAN					90.7	1992
HIGHEST DAILY MEAN	1020	May 13	1170	May 19	22600	Jan 3 1997
LOWEST DAILY MEAN	0.00	Aug 17	0.00	Oct 1	0.00	Aug 20 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 17	0.00	Oct 1	0.00	Aug 31 1994
MAXIMUM PEAK FLOW			1440	Apr 15	24000	Jan 3 1997
MAXIMUM PEAK STAGE			7.80	Apr 15	24.23	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	107200		150100		351100	
10 PERCENT EXCEEDS	388		617		1280	
50 PERCENT EXCEEDS	111		150		218	
90 PERCENT EXCEEDS	0.00		1.5		12	

e Estimated

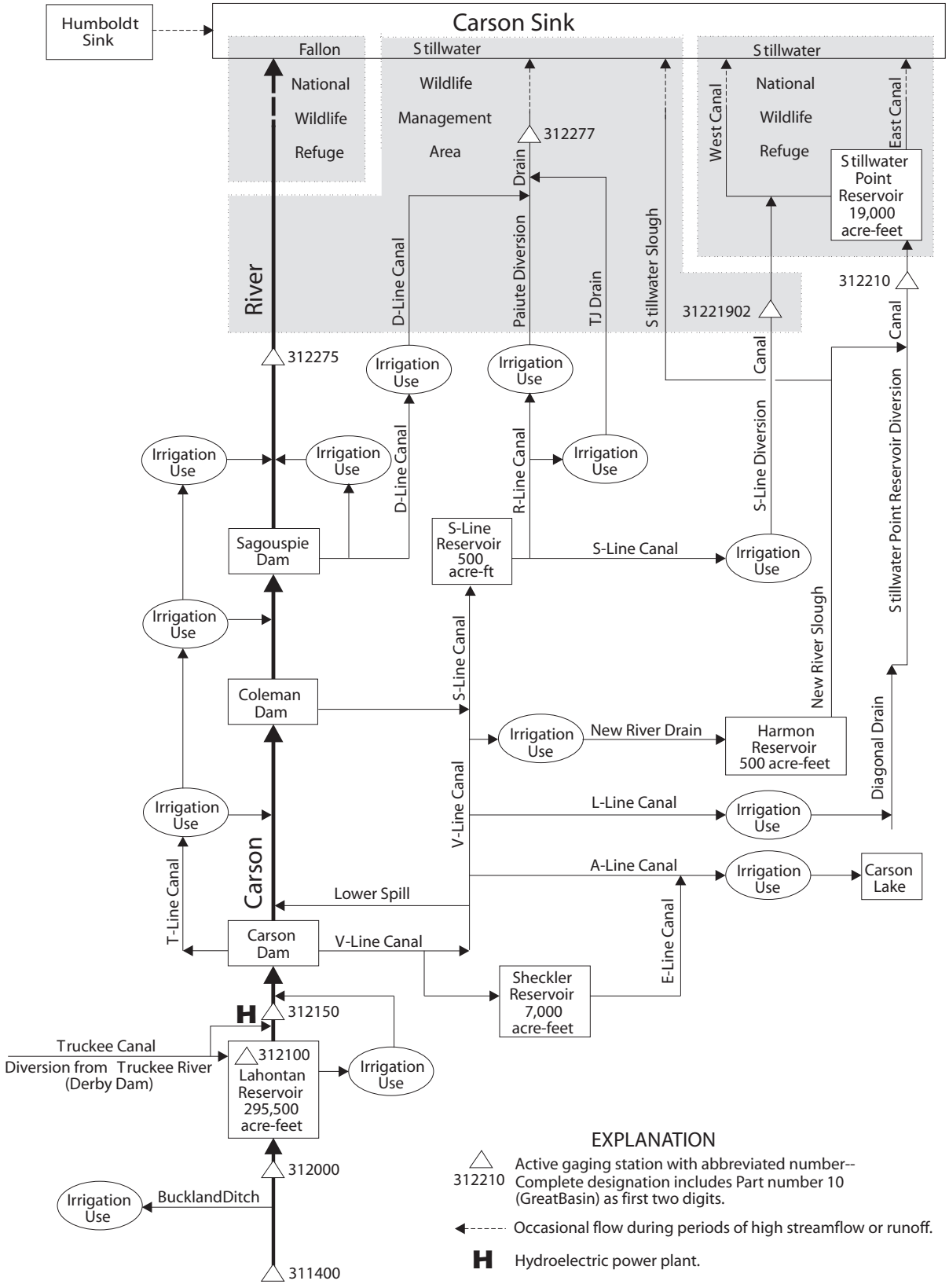


Figure 23. Schematic diagram of flow system and gaging stations in the Carson River basin downstream of station of 311400.

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV

LOCATION (REVISED).--Lat 39°17'30", long 119°18'40", in NE $^1/_4$ SE $^1/_4$ sec.35, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on left bank, 400 ft downstream from Buckland Ditch, 2.0 mi west of Fort Churchill, 4.5 mi upstream of Weeks Bridge, and at mi 30.82 upstream from Lahontan Reservoir.

DRAINAGE AREA.--1,302 mi^2 (Area at site when gage located at Weeks Bridge, 1,450 mi^2).

PERIOD OF RECORD.--April 1911 to current year.

REVISED RECORDS.--WSP 1514: 1917; WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,180 ft above NGVD of 1929, from topographic map. Prior to April 25, 1924, non recording gage at site 12.3 mi upstream at different datum. April 25, 1924 to December 31, 1933, water-stage recorder at site 12.5 mi upstream at different datum. January 1, 1934 to January 3, 1997 at various sites 4.5 mi upstream at different datums. Gage destroyed in January 1997 flood and relocated to Weeks Bridge February 1, 1997, at new datum. Relocated upstream 4.5 mi to previous site and datum, December 14, 1999.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft^3/s, January 3, 1997, gage height, 15.27 ft; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 16	0400	*1370	*5.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.97	2.5	100	188	115	204	201	367	1020	19	1.7	1.1
2	0.95	2.8	93	212	121	198	200	297	1060	16	2.0	1.2
3	0.97	2.8	143	205	127	198	199	253	934	13	1.9	1.2
4	0.96	2.7	211	222	121	186	248	257	704	11	1.9	1.3
5	1.00	0.77	164	223	122	178	340	291	637	10	1.6	1.2
6	0.92	0.70	121	194	121	177	474	384	640	9.9	1.7	1.2
7	0.91	0.64	121	199	122	182	488	475	668	9.5	1.7	1.3
8	0.91	0.76	146	239	126	236	444	552	613	9.2	1.8	1.5
9	0.91	1.1	134	245	145	212	439	606	553	8.8	1.5	1.9
10	0.91	0.82	120	235	139	186	521	593	493	9.6	1.4	1.7
11	0.89	0.82	120	222	124	190	586	582	397	8.7	1.4	1.3
12	0.90	0.82	119	209	120	190	599	528	361	7.4	1.5	0.79
13	0.91	0.85	117	198	129	186	718	538	299	6.8	1.3	0.99
14	0.91	0.94	117	195	136	212	770	556	280	6.6	1.3	1.1
15	0.91	0.88	123	186	136	218	894	599	302	5.2	1.2	1.1
16	0.89	1.2	124	179	139	203	1260	673	278	4.6	1.1	1.4
17	0.89	3.2	108	166	143	182	920	771	261	4.3	1.1	1.4
18	0.87	3.8	115	152	144	184	718	885	244	4.5	1.1	1.5
19	0.61	4.6	141	137	146	176	619	1080	227	4.5	1.2	1.4
20	0.79	5.3	130	154	141	170	527	1180	202	3.9	1.1	1.5
21	1.7	4.7	125	147	142	168	482	998	174	3.7	1.2	1.4
22	1.8	7.8	129	160	154	173	439	755	134	3.5	1.8	1.1
23	0.74	17	121	154	167	162	372	598	137	3.2	1.5	0.87
24	0.79	45	120	142	182	177	338	474	130	2.6	1.4	1.1
25	1.4	103	120	117	200	190	325	444	97	2.5	1.6	0.80
26	2.0	184	119	137	194	187	343	456	82	2.5	1.7	0.82
27	2.3	146	114	145	193	167	441	475	57	2.2	2.0	0.78
28	2.5	106	119	138	196	155	459	526	34	1.8	2.0	0.73
29	2.5	96	139	138	---	148	410	530	25	1.7	1.6	0.83
30	2.8	94	167	145	---	170	382	595	21	1.8	1.5	1.0
31	2.7	---	178	154	---	169	---	845	---	1.7	1.0	---
TOTAL	39.21	841.50	4018	5537	4045	5734	15156	18163	11064	199.7	46.8	35.51
MEAN	1.26	28.1	130	179	144	185	505	586	369	6.44	1.51	1.18
MAX	2.8	184	211	245	200	236	1260	1180	1060	19	2.0	1.9
MIN	0.61	0.64	93	117	115	148	199	253	21	1.7	1.0	0.73
AC-FT	78	1670	7970	10980	8020	11370	30060	36030	21950	396	93	70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2002, BY WATER YEAR (WY)

MEAN	61.6	172	267	339	390	412	565	1100	960	251	33.7	17.1
MAX	481	1653	2540	3001	2378	1674	1475	2923	4141	1600	613	238
(WY)	1983	1951	1951	1997	1986	1995	1916	1969	1983	1995	1983	1983
MIN	0.000	0.54	44.4	72.4	65.1	36.6	7.41	38.6	4.80	0.000	0.000	0.000
(WY)	1925	1960	1960	1961	1991	1961	1977	1977	1992	1924	1924	1923

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1911 - 2002	
ANNUAL TOTAL	51008.78		64879.72			
ANNUAL MEAN	140		178		376	
HIGHEST ANNUAL MEAN					1111	1983
LOWEST ANNUAL MEAN					36.3	1977
HIGHEST DAILY MEAN	1080	May 13	1260	Apr 16	20000	Jan 3 1997
LOWEST DAILY MEAN	0.19	Aug 23	0.61	Oct 19	0.00	Aug 27 1923
ANNUAL SEVEN-DAY MINIMUM	0.29	Aug 21	0.80	Nov 5	0.00	Aug 27 1923
MAXIMUM PEAK FLOW			1370	Apr 16	22300	Jan 3 1997
MAXIMUM PEAK STAGE			5.60	Apr 16	15.27	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	101200		128700		272500	
10 PERCENT EXCEEDS	352		529		1030	
50 PERCENT EXCEEDS	110		123		170	
90 PERCENT EXCEEDS	0.88		0.97		0.09	

CARSON RIVER BASIN

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW $^1/_4$ SE $^1/_4$ sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi west of Fallon.

DRAINAGE AREA.--1,799 mi^2, (not including inflow from Truckee Canal).

PERIOD OF RECORD.--January 1917 to current year. Monthly contents only for January 1917 to September 1960, published in WSP 1734.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder since December 1999 and float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is above NGVD of 1929. Prior to 1966, at datum 3.73 ft lower (Bureau of Reclamation datum).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in June 1915 and the beginning of the period of record, January 1917. Capacity, 295,500 acre-ft between elevations, 4,060.0 ft, invert of outlet conduit, and 4,162.0 ft, spillway crest; includes 91 acre-ft of dead storage below elevation, 4,070 ft. Surface area at spillway elevation, 13,470 acres. Water is used for irrigation of 87,500 acres in Newland Project. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated March 9, 1989. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe (station 10337000), Donner Lake (station 10338400), Prosser Creek (station 10340300), Stampede (station 10344300), Boca (station 10344490), other reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-inch flashboard on weir), 328,600 acre-ft, June 16, 1942, elevation, 4,164.43 ft; minimum observed, 91 acre-ft, September 7-9, 1929, elevation, 4,070.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 225,000 acre-ft, June 12, elevation, 4,155.26 ft; minimum, 61,660 acre-ft, October 30,and November 1, elevation, 4,125.62 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

4,095	7,960	4,120	46,150	4,145	150,800
4,100	12,760	4,125	59,780	4,150	183,600
4,105	18,840	4,130	76,650	4,155	222,800
4,110	26,120	4,135	97,990	4,160	270,700
4,115	34,990	4,140	122,800	4,165	339,900

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76760	61750	74260	101600	112700	133500	164500	198000	213100	204400	163200	119300
2	76010	61810	75190	102700	113000	134600	164500	199300	213900	202700	161700	119300
3	75530	61930	75870	103500	113300	135600	166500	200300	215200	200600	160000	119300
4	74900	62030	77080	103900	113500	136600	167200	200900	216800	198600	158200	112300
5	74000	62150	78220	104400	113900	137700	168200	201200	218100	197000	156500	110900
6	73300	62390	79250	104800	114000	138800	169300	201600	219400	195300	154900	109400
7	72640	62510	80000	105100	114200	139600	170600	201900	219400	193800	153200	108000
8	72070	62630	80870	105500	114800	140800	172000	202000	219400	192600	151500	106700
9	71580	62660	81740	105900	115100	142000	173400	202100	219400	191400	149900	105500
10	71150	62570	82480	106400	115900	143300	174500	202200	219400	190200	148400	104400
11	70620	62210	82480	106900	116700	144400	175900	202200	224600	188600	146900	103300
12	70300	62080	82480	107300	117600	145700	177300	202300	224800	187200	145300	102100
13	69870	62240	82480	107800	118400	146500	178900	202300	224700	185600	143700	101000
14	69340	62660	85400	108100	119200	147600	180300	202000	224300	184000	142100	99870
15	68940	63230	86290	108400	120200	148800	181100	202200	224100	182700	140500	98740
16	68600	63830	87230	108700	120900	150100	183100	202200	223500	181700	139000	97530
17	68120	64400	87960	109100	122000	151000	183100	202300	222800	180700	137500	96570
18	67480	64940	88950	109500	123000	151800	183100	202500	222100	180000	136000	95610
19	66940	65520	89830	109700	123600	152800	188300	202800	221000	180000	134700	94430
20	66330	66130	90760	109900	124700	153800	189400	203900	220300	178200	133500	93070
21	65710	66670	91510	110300	125500	154600	190000	205400	219100	177300	131900	91600
22	65070	67450	92360	110400	126400	155600	190900	207100	218000	176300	130800	90320
23	64530	67720	93380	110700	127300	156300	191600	208400	216800	175300	129400	88900
24	64020	68460	94290	111000	128300	157400	192000	209300	215700	174000	127900	87490
25	63610	69280	95110	111300	129100	158500	192300	210000	214600	172700	126500	86080
26	63290	70190	95930	111500	130400	159500	192700	210600	213300	171400	125200	84920
27	62910	71080	96800	111700	131400	160600	193300	211300	211700	170100	123700	83760
28	62510	71930	97630	111900	132600	161500	194100	211800	210000	168700	122300	82530
29	62210	72750	98740	112200	---	162500	195100	212500	208100	167400	120800	81530
30	61900	73480	99730	112400	---	163600	196700	213000	206300	166300	119300	80670
31	61840	---	100900	112600	---	164500	---	213000	---	164800	119300	---
MAX	76760	73480	100900	112600	132600	164500	196700	213000	224800	204400	163200	119300
MIN	61840	61750	74260	101600	112700	133500	164500	198000	206300	164800	119300	80670
#	4125.68	4129.15	4135.61	4138.03	4141.80	4147.21	4151.75	4153.73	4152.99	4147.25	4139.33	4131.02
##	-15830	+11640	+27420	+11700	+20000	+31900	+32200	+16300	-6700	-41500	-45500	-38600

CAL YR 2001 MAX 214700 MIN 61750 ## -900
WTR YR 2002 MAX 224800 MIN 61750 ## +3000

\# Elevation, in feet NGVD of 1929, at end of month.
Change in contents, in acre-feet.

10312150 CARSON RIVER BELOW LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'50", long 119°02'45", in E $^1/_2$ SE $^1/_4$ sec.34, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on right bank, 1.1 mi downstream from Lahontan Dam, 15 mi west of Fallon, and at mi 1.16 downstream from Lahontan Reservoir.

DRAINAGE AREA.--1,801 mi^2, excludes inflow from Truckee Canal.

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,040 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lahontan Reservoir (station 10312100), capacity 295,500 acre-ft, and other upstream regulations. One diversion, approximately 2,500 acre-ft per year, between gage and Lahontan Reservoir. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft^3/s, June 23, 1983, gage height, 8.34 ft; minimum daily, 0.24 ft^3/s, October 18, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft^3/s, July 13, gage height, 5.78 ft; minimum daily, 2.0 ft^3/s, December 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	252	2.0	4.3	5.0	7.0	492	245	757	866	774	666
2	437	218	2.1	5.4	5.0	6.5	394	224	755	863	805	669
3	500	216	2.1	5.0	5.5	6.5	346	224	638	860	810	674
4	549	192	2.1	4.8	6.5	6.5	400	269	545	872	790	673
5	562	175	2.5	4.9	6.4	6.6	342	307	447	883	723	673
6	525	174	2.3	4.9	6.0	6.4	364	315	378	815	728	672
7	461	196	2.5	5.7	5.6	6.4	364	491	359	662	739	655
8	432	224	2.6	5.6	5.0	6.5	373	599	466	566	735	605
9	431	244	2.7	5.5	5.0	6.5	452	608	552	678	730	581
10	429	326	3.1	5.7	5.1	6.4	454	652	569	732	748	583
11	417	344	3.2	5.0	5.2	6.5	452	700	631	766	767	585
12	410	283	3.4	4.9	5.2	6.4	442	712	676	777	737	549
13	410	135	3.6	4.9	5.6	6.5	540	713	682	792	765	538
14	408	47	2.9	5.4	5.7	5.4	621	713	682	739	726	565
15	409	2.7	2.6	5.7	6.4	3.7	645	749	681	578	708	550
16	441	3.0	3.3	5.7	6.4	3.6	700	759	689	513	708	502
17	478	3.5	3.6	5.7	6.2	3.8	717	775	709	540	675	503
18	495	4.3	3.7	5.7	6.5	4.2	723	782	781	556	610	579
19	494	5.8	3.6	5.7	6.5	5.2	765	781	787	562	531	646
20	493	7.1	3.6	5.7	6.2	5.4	726	637	764	610	559	704
21	493	7.5	4.0	5.6	6.0	5.7	618	500	772	624	607	717
22	492	6.5	4.4	5.7	5.9	6.5	561	457	726	630	607	717
23	464	6.4	5.0	5.7	5.8	6.4	604	424	629	694	647	711
24	429	6.2	4.6	5.2	5.7	6.5	612	452	593	718	657	708
25	397	5.7	3.1	4.9	6.0	6.4	634	483	654	700	648	651
26	388	5.8	3.0	5.0	6.5	8.0	620	473	728	730	629	600
27	391	6.3	3.5	5.0	6.5	16	594	467	779	765	657	572
28	391	6.3	3.8	4.9	6.9	37	487	488	823	704	686	545
29	391	4.1	3.8	4.9	---	30	386	549	856	689	703	467
30	353	2.1	3.7	5.0	---	25	314	621	870	816	711	421
31	299	---	3.8	5.0	---	25	---	678	---	830	690	---
TOTAL	13719	3109.3	100.2	163.1	164.3	288.5	15742	16847	19978	22130	21610	18281
MEAN	442.5	103.6	3.232	5.261	5.868	9.306	524.7	543.5	665.9	713.9	697.1	609.4
MAX	562	344	5.0	5.7	6.9	37	765	782	870	883	810	717
MIN	299	2.1	2.0	4.3	5.0	3.6	314	224	359	513	531	421
AC-FT	27210	6170	199	324	326	572	31220	33420	39630	43890	42860	36260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	319.7	124.1	49.69	134.4	171.2	265.0	649.3	950.2	1031	939.8	826.5	599.2
MAX	802	639	861	1756	1578	1392	1453	1619	2147	1745	1285	1112
(WY)	1984	1983	1984	1997	1997	1986	1986	1996	1983	1983	1983	1983
MIN	0.47	0.50	0.49	0.61	0.91	1.29	195	426	514	352	0.74	0.63
(WY)	1993	1993	1993	1993	1993	1992	1991	1977	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	138375.0		132132.4			
ANNUAL MEAN	379.1		362.0		506.4	
HIGHEST ANNUAL MEAN					1066	1983
LOWEST ANNUAL MEAN					181	1992
HIGHEST DAILY MEAN	920	Jun 26	883	Jul 5	3160	Jun 23 1983
LOWEST DAILY MEAN	2.0	Dec 1	2.0	Dec 1	0.24	Oct 18 1994
ANNUAL SEVEN-DAY MINIMUM	2.2	Nov 30	2.2	Nov 30	0.28	Oct 18 1994
MAXIMUM PEAK FLOW			1150	Jul 13	3160	Jun 23 1983
MAXIMUM PEAK STAGE			5.78	Jul 13	8.34	Jun 23 1983
ANNUAL RUNOFF (AC-FT)	274500		262100		366900	
10 PERCENT EXCEEDS	771		739		1050	
50 PERCENT EXCEEDS	434		429		490	
90 PERCENT EXCEEDS	2.4		4.2		2.2	

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV

LOCATION.--Lat 39°28'25", long 118°35'50", in NE $^1/_4$ NE $^1/_4$ sec.34, T.19 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank, 0.2 mi downstream from a diversion structure for Stillwater Slough, and 9.8 mi east of Fallon.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1967 to September 1981 (monthly discharge only), October 1990 to September 1992, January 1993 to current year. Prior to October 1992, published as Stillwater Diversion Canal near Fallon.

GAGE.--Water-stage recorder. Elevation of gage is 3,915 ft above NGVD of 1929, from topographic map. Prior to September 1981, gage at same site and datum on right bank.

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft^3/s, January 29, 1997; no flow several days many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	68	2.4	5.8	5.9	0.91	0.03	7.4	10	40	39	51
2	57	65	2.3	0.74	5.0	0.60	14	4.7	12	40	40	51
3	61	56	2.1	3.7	3.6	0.58	7.6	3.4	11	41	40	48
4	61	47	2.3	4.2	4.6	1.3	3.2	3.3	13	40	39	47
5	68	31	2.1	2.1	5.4	1.6	4.7	3.9	12	38	40	53
6	74	4.5	2.0	1.6	4.6	1.6	2.0	3.4	22	37	43	60
7	85	3.9	1.8	1.5	5.6	1.4	3.1	3.5	37	40	40	63
8	91	6.5	1.9	1.8	4.4	1.5	4.7	3.3	34	42	38	62
9	92	4.7	1.6	1.2	4.6	1.3	5.4	5.6	35	43	37	57
10	96	3.1	2.2	1.4	2.1	0.98	5.0	12	39	37	39	54
11	83	3.4	2.2	1.2	4.7	1.2	3.1	12	38	37	44	54
12	81	4.2	2.1	1.4	3.1	0.86	2.9	12	42	37	48	55
13	84	12	2.1	1.4	1.3	1.9	4.3	15	43	38	45	54
14	88	13	2.0	1.2	1.3	1.1	4.1	19	33	38	45	58
15	86	11	1.9	1.2	1.4	1.2	3.3	16	13	36	43	60
16	80	16	2.0	1.4	1.3	1.2	7.1	16	9.6	36	40	63
17	84	7.1	1.8	1.3	1.4	1.4	5.8	16	10	35	45	62
18	139	3.8	1.9	1.4	1.5	1.4	6.6	16	11	37	47	58
19	147	3.7	5.1	1.2	1.2	1.6	5.9	15	20	35	50	64
20	157	3.6	1.9	1.5	5.3	4.1	6.1	13	33	34	50	67
21	146	3.5	0.68	1.7	1.2	0.98	5.9	16	33	35	46	59
22	141	3.5	0.82	1.9	1.00	1.9	7.9	19	36	35	44	55
23	156	2.8	1.4	1.6	1.1	1.5	10	40	38	34	43	59
24	130	2.9	2.2	3.5	0.95	1.3	7.8	37	37	32	45	84
25	88	3.0	1.7	5.1	0.81	1.6	6.2	36	38	34	49	92
26	85	2.9	1.5	4.7	0.69	1.3	6.2	37	38	35	48	99
27	79	2.5	1.4	3.3	0.62	0.88	4.8	42	39	37	48	98
28	79	2.5	1.4	2.7	0.71	0.62	6.3	44	40	37	49	95
29	84	3.0	1.9	3.3	---	1.5	6.7	36	41	36	48	91
30	80	2.7	2.4	4.6	---	1.1	6.4	35	43	35	48	83
31	71	---	2.9	5.1	---	0.35	---	27	---	36	50	---
TOTAL	2917	396.8	62.00	74.74	75.38	40.76	167.13	569.5	860.6	1147	1370	1956
MEAN	94.1	13.2	2.00	2.41	2.69	1.31	5.57	18.4	28.7	37.0	44.2	65.2
MAX	157	68	5.1	5.8	5.9	4.1	14	44	43	43	50	99
MIN	57	2.5	0.68	0.74	0.62	0.35	0.03	3.3	9.6	32	37	47
AC-FT	5790	787	123	148	150	81	332	1130	1710	2280	2720	3880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	30.0	13.5	4.50	19.5	19.6	30.1	12.4	49.7	46.2	28.0	27.8	31.5
MAX	94.1	31.9	7.69	197	193	139	31.7	118	120	58.4	44.2	65.2
(WY)	2002	2001	1991	1997	1997	1996	1996	1995	1995	1995	2002	2002
MIN	1.91	1.56	0.94	0.76	1.26	0.58	1.19	5.71	5.12	6.94	1.78	0.000
(WY)	1995	1995	1995	1993	1993	1993	1993	1992	1991	1991	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1991 - 2002	
ANNUAL TOTAL	8131.37		9636.91			
ANNUAL MEAN	22.3		26.4		27.0	
HIGHEST ANNUAL MEAN					68.4	1997
LOWEST ANNUAL MEAN					4.97	1992
HIGHEST DAILY MEAN	157	Oct 20	157	Oct 20	256	Jan 29 1997
LOWEST DAILY MEAN	0.49	Feb 6	0.03	Apr 1	0.00	Sep 1 1992
ANNUAL SEVEN-DAY MINIMUM	1.2	Feb 2	0.70	Feb 25	0.00	Sep 1 1992
ANNUAL RUNOFF (AC-FT)	16130		19110		19570	
10 PERCENT EXCEEDS	62		66		63	
50 PERCENT EXCEEDS	6.9		10		11	
90 PERCENT EXCEEDS	1.7		1.3		1.5	

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1977 to September 1981, September 1990 to August 1992, January 1993 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--September 1990 to August 1992, January 1993 to current year.
WATER TEMPERATURE.--October 1990 to August 1992, January 1993 to current year.

INSTRUMENTATION.--Water-quality monitor September 1990 to August 1992 and January to June 1993, hourly; July 1993 to January 1994, four times per hour; February to September 1994, hourly, October 1994 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In March 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 9,620 microsiemens, April 8, 1995; minimum recorded, 202 microsiemens, May 31, 1996.
WATER TEMPERATURE.--Maximum recorded, 31.5°C, August 12, 1992; minimum recorded, freezing point, many days during winter months.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 6,910 microsiemens, March 4; minimum recorded, 423 microsiemens, October 9.
WATER TEMPERATURE.--Maximum recorded, 30.5°C, June 27, 30, July 7, 10, 11; minimum, freezing point December 20, 22.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	556	483	518	690	572	609	3630	3480	3550	4210	3950	4100
2	674	463	528	712	623	668	3630	3350	3470	---	---	---
3	482	462	471	698	637	666	3440	3240	3370	3880	3240	3480
4	535	466	486	736	651	683	3460	3230	3360	4240	3440	3810
5	550	495	523	1340	667	813	3480	3290	3350	3440	3190	3250
6	516	485	498	3720	1340	2890	3520	3330	3410	3290	3180	3230
7	512	468	485	3440	2320	2880	3500	3160	3350	3650	3230	3330
8	484	454	470	2440	1760	2210	3510	3240	3400	4050	3640	3800
9	455	423	435	2000	1750	1870	3660	3390	3530	4430	4010	4130
10	492	429	464	2030	1640	1800	3620	3490	3580	4610	4410	4480
11	468	433	448	2050	1750	1860	3610	3430	3550	4810	4600	4720
12	622	460	514	2300	2050	2190	3560	3410	3510	4930	4800	4870
13	632	481	543	2370	1480	2030	3540	3350	3450	4980	4880	4930
14	499	468	477	1480	1210	1340	3580	3340	3490	5050	4930	5010
15	530	481	510	2020	1250	1470	3820	3450	3620	5100	5000	5040
16	515	474	485	1370	704	1110	3730	3560	3650	5030	4950	5000
17	711	509	543	1020	682	792	3860	3590	3770	5100	4890	4970
18	980	592	740	1850	1020	1320	4050	3650	3840	5020	4910	4970
19	613	485	533	2120	1850	1960	3880	3550	3710	4950	4820	4890
20	546	513	527	2250	1920	2120	---	---	---	4940	4810	4880
21	614	484	535	2370	2190	2250	---	---	---	4820	4670	4780
22	632	508	559	2650	2370	2510	3740	3280	3520	4830	4640	4750
23	508	475	483	2770	2620	2690	3630	3140	3490	4650	4300	4460
24	529	475	497	2760	2660	2730	3680	3420	3620	4700	4320	4410
25	512	480	492	3010	2750	2900	3780	3520	3690	4800	2480	3740
26	622	512	558	3160	2950	3050	4020	3780	3930	2870	2350	2630
27	617	545	580	3180	3000	3120	4040	3750	3940	2720	2370	2640
28	614	549	575	3240	3100	3170	4020	3770	3880	3080	2650	2820
29	616	578	603	3290	3100	3180	3840	3650	3760	3300	3080	3230
30	585	539	558	3590	3250	3420	3850	3680	3790	3590	2690	3340
31	581	547	558	---	---	---	4190	3710	3910	2690	2110	2480
MONTH	980	423	522	3720	572	2010	---	---	---	---	---	---

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2940	1870	2340	6720	6530	6640	4670	4220	4370	2150	1620	1840
2	2460	2060	2310	6800	6650	6730	6440	1100	4070	2050	1470	1690
3	2490	2140	2380	6850	6670	6770	2890	1120	1980	1910	1480	1730
4	2810	2430	2700	6910	6730	6820	4000	2890	3580	2500	1830	2140
5	3040	1870	2450	6750	6420	6550	4290	3080	3810	2310	1990	2130
6	2500	2070	2360	6500	6350	6430	3080	2190	2400	2280	2070	2150
7	2790	2020	2390	6520	6260	6390	2930	2290	2520	2310	1960	2110
8	2580	2090	2430	6310	6120	6210	3360	2470	3080	2650	1690	2160
9	3110	2040	2680	6180	5850	6000	2470	2090	2200	2030	1660	1830
10	2260	2040	2090	5920	5800	5870	2090	1870	1980	2210	1630	1960
11	3150	2260	2650	6030	5860	5920	2140	1890	2020	1630	1140	1360
12	3260	2380	2920	6130	5930	6040	2370	1890	2120	1380	1140	1260
13	2520	2250	2340	6010	5880	5950	2830	2370	2530	1180	1010	1070
14	2770	2420	2550	5990	4780	5410	3100	2370	2830	1100	965	1030
15	3630	2770	3240	4940	4610	4770	2370	2040	2160	972	874	904
16	4110	3630	3880	5090	4850	4950	2320	2040	2170	1180	950	1050
17	4450	4110	4310	5560	5080	5310	2040	1720	1780	1080	866	923
18	4710	4450	4610	5980	5550	5810	1790	1650	1730	1000	882	936
19	5020	4710	4920	5970	5290	5530	1650	1520	1580	2000	1000	1240
20	5710	4970	5240	5650	5160	5340	1680	1580	1630	1020	908	959
21	5930	5630	5720	5310	5160	5220	1720	1600	1660	962	915	937
22	6160	5910	6050	5370	5060	5260	1840	1710	1780	2480	744	905
23	6250	5970	6120	5140	4970	5060	1860	1620	1770	1020	601	654
24	6510	6230	6390	5110	4900	5010	1620	1300	1400	662	605	635
25	6560	5830	6230	4980	4700	4840	1500	1330	1430	630	597	620
26	6320	5690	5890	5260	4930	5070	1590	1490	1530	1480	597	661
27	6610	6310	6510	5670	5240	5490	1720	1490	1580	2040	608	728
28	6670	6560	6610	5930	5650	5800	2010	1710	1900	627	556	593
29	---	---	---	5940	5750	5840	2010	1630	1830	1170	556	636
30	---	---	---	5800	4720	5450	1650	1550	1600	857	554	611
31	---	---	---	4730	4200	4390	---	---	---	1270	616	724
MONTH	6670	1870	3940	6910	4200	5710	6440	1100	2230	2650	554	1230

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1830	1250	1500	643	594	614	693	610	669	610	582	596
2	1260	1050	1170	624	602	617	614	572	594	590	553	574
3	1150	1020	1090	624	575	612	610	564	589	555	541	547
4	1140	1040	1080	579	553	566	578	546	562	587	550	562
5	1040	924	969	621	560	594	605	549	578	578	545	560
6	1170	670	897	631	612	621	596	549	565	586	535	555
7	671	582	612	620	591	611	579	512	540	557	520	541
8	582	558	566	600	569	584	655	579	630	553	498	530
9	637	560	593	602	583	591	608	579	593	519	480	495
10	668	635	650	635	574	595	631	596	615	519	501	510
11	673	616	636	629	588	609	641	587	613	521	485	500
12	690	618	647	641	616	629	639	604	622	527	492	509
13	684	658	673	667	619	643	619	582	602	530	497	509
14	979	655	722	636	588	599	652	590	628	529	500	514
15	1010	966	985	592	573	582	599	567	585	519	497	512
16	982	937	957	586	564	575	640	586	614	540	487	517
17	1070	952	997	623	567	588	657	619	638	524	505	516
18	1070	966	1030	613	579	596	638	586	600	544	501	530
19	1210	598	834	616	574	597	599	566	586	537	479	513
20	650	591	614	611	584	594	569	551	557	508	483	499
21	654	625	637	612	573	592	575	551	564	508	477	493
22	755	636	712	619	588	605	605	563	583	510	471	482
23	776	629	722	628	594	608	617	598	607	578	505	524
24	630	570	591	617	589	604	631	606	619	562	466	487
25	659	560	605	642	598	620	627	599	617	504	472	496
26	614	589	604	664	626	646	601	576	588	473	448	458
27	617	585	602	681	644	661	631	586	609	480	456	467
28	604	574	591	680	662	672	630	590	605	483	457	471
29	672	595	637	674	656	666	603	591	597	481	452	470
30	720	641	688	668	656	662	616	591	606	470	450	461
31	---	---	---	691	654	670	610	584	600	---	---	---
MONTH	1830	558	787	691	553	614	693	512	599	610	448	513

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.5	17.0	19.0	12.5	9.5	11.0	5.5	2.5	4.0	6.5	5.0	5.5
2	22.0	17.5	19.5	12.0	9.0	10.5	5.0	3.0	4.0	6.0	3.5	5.0
3	21.5	18.0	19.5	12.0	9.0	10.0	6.0	2.5	4.0	7.5	4.5	6.0
4	22.0	18.0	19.5	12.5	9.0	10.5	5.0	2.5	3.5	7.0	3.5	5.0
5	21.0	18.0	19.5	12.5	9.0	11.0	4.0	2.5	3.5	5.0	3.0	4.0
6	20.5	17.0	19.0	12.0	8.5	10.5	6.0	2.0	4.0	4.5	3.5	4.0
7	19.5	16.5	18.5	12.0	8.5	10.5	6.0	2.5	4.0	5.0	3.0	4.0
8	18.5	16.5	17.5	8.5	6.5	7.5	5.0	2.0	3.5	5.5	2.5	4.0
9	17.0	14.5	15.5	8.5	5.0	7.0	4.0	2.0	2.5	5.5	2.5	4.5
10	15.5	12.5	14.0	9.0	4.0	6.5	3.0	1.0	2.0	6.5	3.5	5.0
11	15.0	13.0	14.0	11.0	5.0	8.0	4.5	1.5	2.5	6.0	2.5	4.5
12	14.5	11.5	13.0	11.5	7.5	9.0	4.5	2.0	3.0	6.5	3.5	5.0
13	15.0	11.0	12.5	10.5	9.0	9.5	5.0	2.5	3.5	6.0	3.0	4.5
14	16.0	12.0	13.5	11.0	9.0	10.0	4.5	2.0	3.0	5.5	2.0	3.5
15	15.5	12.5	14.0	10.5	8.0	9.0	4.0	1.5	2.5	4.0	1.5	2.5
16	15.5	13.0	14.0	10.5	8.0	9.5	3.5	2.0	2.5	5.0	1.5	2.5
17	17.0	13.5	15.0	11.5	8.0	9.5	3.5	1.5	2.5	5.0	1.5	2.5
18	16.0	13.5	14.5	10.5	6.5	8.5	4.0	1.5	2.5	5.0	1.5	3.0
19	15.5	12.5	14.0	8.0	4.5	6.5	3.5	1.0	2.0	3.5	1.0	2.0
20	16.5	13.5	15.0	7.0	4.5	6.0	3.5	0.0	1.5	3.5	1.0	2.5
21	16.5	13.5	15.0	7.0	5.5	6.5	---	---	---	4.5	2.0	3.5
22	15.5	13.5	14.5	9.0	6.0	7.5	3.0	0.0	2.0	4.5	1.0	2.5
23	15.0	13.5	14.5	7.5	4.0	6.0	3.5	2.0	2.5	4.5	1.0	2.5
24	13.5	11.0	12.0	7.0	4.5	5.5	5.5	2.0	3.5	5.0	1.5	3.0
25	13.0	10.0	11.5	6.0	3.0	4.5	3.5	1.5	2.5	3.0	0.5	1.5
26	13.5	10.0	11.5	5.5	2.5	4.0	4.0	2.0	3.0	3.5	0.5	1.5
27	12.5	11.0	11.5	5.5	2.0	3.5	4.5	2.0	3.0	3.5	0.5	1.5
28	13.0	10.5	11.5	3.0	2.0	2.5	4.0	2.0	3.0	4.0	1.0	2.0
29	13.0	10.5	11.5	3.5	2.0	2.5	5.0	3.0	4.0	4.0	1.0	2.0
30	12.5	11.0	12.0	5.0	1.0	3.0	5.0	3.5	4.5	3.5	0.5	1.5
31	13.0	10.0	11.5	---	---	---	7.0	4.5	5.5	3.5	0.5	1.5
MONTH	22.0	10.0	14.8	12.5	1.0	7.5	---	---	---	7.5	0.5	3.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	0.5	1.0	8.5	2.5	5.0	22.5	11.0	16.0	13.0	11.0	12.5
2	4.0	0.5	1.5	9.0	2.5	5.0	21.5	12.0	15.5	20.5	11.0	15.5
3	4.5	0.5	2.0	9.5	2.5	5.5	18.5	11.0	15.0	24.0	15.0	19.0
4	5.0	0.5	2.0	10.0	3.0	6.5	21.0	13.5	17.0	24.5	15.0	19.5
5	4.5	0.5	2.0	11.5	4.5	8.0	19.0	15.5	17.0	24.0	15.5	19.5
6	5.5	0.5	2.5	10.5	7.0	8.5	19.5	13.5	16.5	24.5	14.5	19.0
7	5.0	2.0	3.0	10.5	6.5	8.0	20.0	12.0	16.0	20.5	13.0	17.0
8	6.5	1.0	3.5	10.0	3.5	6.5	20.0	14.0	17.0	20.5	9.5	14.5
9	7.0	2.0	4.0	10.0	4.0	7.0	17.5	13.0	16.0	20.0	11.0	15.5
10	6.5	2.0	4.0	8.0	6.0	7.0	19.0	12.0	15.0	17.5	13.5	15.5
11	8.0	2.5	4.5	11.5	4.5	8.0	21.5	13.5	17.0	19.0	12.0	15.5
12	8.5	3.0	5.0	13.0	8.5	10.0	22.0	13.5	17.5	20.0	14.0	17.5
13	6.5	2.0	4.5	9.0	4.5	7.0	21.0	13.5	17.5	21.5	15.5	19.0
14	9.0	4.0	6.5	9.0	3.5	6.0	21.5	16.0	19.0	22.0	16.0	19.5
15	7.5	3.5	6.0	9.5	3.0	6.0	16.0	10.0	13.5	22.0	15.5	19.0
16	8.5	4.0	6.0	8.5	4.5	6.5	10.0	7.5	9.0	24.0	16.0	20.0
17	9.0	5.0	7.0	7.5	3.5	5.0	13.5	7.5	10.0	26.0	16.0	21.0
18	9.0	5.0	7.0	10.0	2.5	6.0	11.0	8.0	9.5	27.0	18.5	22.5
19	9.5	6.0	7.5	13.5	3.5	8.5	11.5	7.5	9.5	22.0	17.0	19.5
20	9.5	6.5	8.0	14.5	7.0	10.5	14.0	8.0	11.0	17.5	14.5	16.0
21	11.5	6.0	9.0	13.5	8.5	11.5	17.5	10.0	14.0	18.5	10.5	14.5
22	11.5	7.0	9.5	14.5	10.0	12.0	20.0	13.0	16.5	21.0	10.5	15.5
23	10.5	7.5	9.0	13.0	8.5	10.5	21.0	14.5	18.0	20.0	12.5	16.0
24	12.0	5.5	8.5	11.5	8.5	10.0	18.0	13.5	16.0	22.5	14.0	18.0
25	11.0	5.5	8.0	13.5	7.0	10.5	21.0	14.0	17.5	23.5	16.0	19.5
26	11.0	5.0	7.5	16.0	8.0	12.0	20.0	15.5	17.5	24.5	18.0	21.0
27	11.0	5.0	7.5	18.0	9.5	13.5	19.5	14.0	16.0	25.0	18.5	21.5
28	10.0	4.0	6.5	18.0	10.5	13.5	18.0	12.0	15.0	25.5	18.0	21.5
29	---	---	---	17.5	10.5	14.0	16.5	14.0	15.5	28.0	19.5	23.5
30	---	---	---	19.0	10.0	14.5	17.5	12.0	14.5	29.5	22.0	25.5
31	---	---	---	21.0	11.0	15.5	---	---	---	29.5	22.5	25.5
MONTH	12.0	0.5	5.5	21.0	2.5	9.0	22.5	7.5	15.2	29.5	9.5	18.7

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	21.0	23.0	30.0	24.0	26.5	28.0	24.0	25.5	25.5	21.5	23.5
2	26.5	16.5	21.5	30.0	23.5	26.5	27.5	22.5	25.0	25.5	21.5	23.5
3	27.5	17.5	22.5	29.5	23.5	26.5	28.0	22.5	25.0	25.0	22.0	23.5
4	28.0	18.5	23.0	29.0	22.5	25.5	26.5	21.5	24.0	22.5	19.5	21.0
5	29.5	20.0	24.5	29.5	23.0	26.0	25.0	20.0	22.5	21.5	18.0	20.0
6	28.5	20.5	24.5	30.0	23.5	26.5	24.5	19.0	22.0	20.0	18.0	19.0
7	27.5	21.5	24.0	30.5	24.5	26.5	24.5	19.5	21.5	19.0	15.5	17.5
8	22.5	16.5	19.5	28.5	22.5	25.0	25.0	18.0	21.5	19.5	16.0	18.0
9	20.0	13.5	16.5	29.0	22.0	25.5	25.5	18.5	21.5	20.5	16.5	18.5
10	21.0	14.0	17.0	30.5	23.5	27.0	26.0	19.5	22.0	21.0	17.0	19.0
11	23.5	15.0	19.0	30.5	24.5	27.5	27.0	21.0	23.5	22.0	17.5	19.5
12	25.5	17.5	21.0	28.5	25.0	26.5	27.0	22.5	24.5	22.5	18.0	20.0
13	27.5	19.5	23.0	29.0	23.5	26.0	27.0	21.5	24.0	23.0	19.0	21.0
14	28.5	21.0	24.5	29.0	23.5	26.0	28.0	22.0	25.0	23.0	19.5	21.5
15	29.0	20.0	24.5	29.5	24.0	26.5	28.5	23.5	26.0	22.0	19.5	20.5
16	28.5	20.0	24.0	30.0	24.0	27.0	29.0	24.0	26.5	21.5	18.0	19.5
17	27.5	19.5	23.5	29.0	25.0	26.5	27.0	23.5	25.5	21.0	18.0	19.5
18	28.0	21.0	24.5	25.5	21.5	24.0	26.0	22.0	24.0	20.0	17.0	18.5
19	27.0	19.5	23.0	27.5	20.0	23.0	26.0	21.5	23.5	20.0	16.0	18.0
20	27.0	20.5	23.0	28.5	21.0	24.5	23.5	20.5	22.0	21.0	17.0	19.0
21	27.0	21.5	23.5	28.5	22.0	25.0	23.0	18.0	20.5	21.5	17.5	19.5
22	27.5	19.5	23.0	29.0	23.5	26.0	23.5	18.5	21.0	22.0	18.0	20.0
23	28.5	21.5	24.5	28.5	23.0	25.5	24.5	19.5	22.0	22.0	18.0	20.0
24	29.0	22.0	25.5	29.5	22.5	26.0	24.5	19.5	22.0	21.5	18.5	20.0
25	29.0	22.5	25.5	29.0	23.5	26.0	24.0	20.0	22.0	20.5	18.0	19.0
26	29.5	22.5	26.0	28.0	22.5	25.0	24.0	20.0	22.0	19.0	16.0	17.5
27	30.5	23.5	26.5	28.5	22.0	25.0	23.5	19.5	21.5	18.5	16.5	17.5
28	29.5	23.0	26.5	27.5	22.0	24.5	24.0	19.5	21.5	18.5	15.5	17.0
29	30.0	23.5	26.5	28.0	21.0	24.5	25.5	21.0	23.5	18.0	15.5	17.0
30	30.5	23.5	27.0	28.5	23.0	25.5	25.5	22.0	24.0	17.5	14.5	16.0
31	---	---	---	29.0	23.5	26.0	25.5	21.5	23.5	---	---	---
MONTH	30.5	13.5	23.4	30.5	20.0	25.7	29.0	18.0	23.2	25.5	14.5	19.5

CARSON RIVER BASIN

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV

LOCATION.--Lat 39°32'01", long 118°31'06", in NE $^1/_4$ NE $^1/_4$ sec.8, T.19 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on left bank, off Hunter Road, 250 ft above confluence with West Canal, 1.5 mi north of U.S.F.W.S. Stillwater Headquarters, and 2 mi northeast of Stillwater.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1991 to September 1992, March 1993 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 3,880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Annual mean listed below in summary statistics, represents average discharge for water year 1992. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51 ft^3/s, September 27, 2002; no flow at times, most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	18	---	---	---	---	0.00	1.1	1.0	0.14	0.10	26
2	35	9.0	---	---	---	---	0.00	0.71	0.92	0.14	0.09	28
3	32	9.9	---	---	---	---	0.00	1.5	0.87	0.13	0.00	19
4	29	21	---	---	---	---	0.00	1.4	0.87	0.12	0.02	24
5	31	21	---	---	---	---	0.00	0.71	0.87	0.12	0.29	22
6	28	11	---	---	---	---	0.00	0.81	0.97	0.09	0.30	21
7	33	0.30	---	---	---	---	0.00	0.89	0.84	0.16	0.26	25
8	38	2.4	---	---	---	---	0.38	1.3	0.82	0.09	0.20	29
9	31	7.6	---	---	---	---	1.4	0.82	0.94	0.15	4.5	28
10	22	6.9	---	---	---	---	1.4	0.88	0.87	0.04	4.2	26
11	31	3.5	---	---	---	---	1.1	1.2	0.84	0.27	3.6	11
12	31	6.1	---	---	---	---	0.92	1.0	0.80	0.13	6.8	28
13	33	14	---	---	---	---	1.2	1.3	0.85	0.23	5.1	26
14	26	13	---	---	---	---	1.8	1.3	0.57	0.17	0.96	25
15	20	1.9	---	---	---	---	1.1	1.2	0.00	0.14	1.1	17
16	26	---	---	---	---	---	2.2	1.1	0.00	0.12	0.55	21
17	18	---	---	---	---	---	2.2	1.1	0.00	0.12	0.53	15
18	19	---	---	---	---	---	1.9	1.0	0.00	0.11	0.59	13
19	24	---	---	---	---	0.00	1.9	0.96	0.00	0.13	0.57	14
20	28	---	---	---	---	0.00	1.7	0.88	0.00	0.12	19	17
21	35	---	---	---	---	0.00	1.3	0.80	0.00	0.12	30	21
22	33	---	---	---	---	0.00	1.2	0.76	0.00	0.12	24	24
23	23	---	---	---	---	0.00	1.1	0.97	0.07	0.10	21	14
24	18	---	---	---	---	0.00	1.7	1.1	0.22	0.08	22	19
25	29	---	---	---	---	0.00	1.2	0.91	0.11	0.08	16	18
26	33	---	---	---	---	0.00	0.86	0.77	0.21	0.09	19	29
27	17	---	---	---	---	0.00	0.61	0.68	0.21	0.08	28	41
28	33	---	---	---	---	0.00	0.71	0.82	0.14	0.08	26	28
29	28	---	---	---	---	0.00	1.4	0.82	0.13	0.07	26	25
30	27	---	---	---	---	0.00	1.9	1.0	0.24	0.08	17	20
31	24	---	---	---	---	0.00	---	0.99	---	0.08	22	---
TOTAL	860	---	---	---	---	---	31.18	30.78	13.36	3.70	299.76	674
MEAN	27.74	---	---	---	---	---	1.039	0.993	0.445	0.119	9.670	22.47
MAX	38	---	---	---	---	---	2.2	1.5	1.0	0.27	30	41
MIN	17	---	---	---	---	---	0.00	0.68	0.00	0.04	0.00	11
AC-FT	1710	---	---	---	---	---	62	61	26	7.3	595	1340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	20.64	0.000	0.000	0.000	0.000	4.074	4.621	9.711	8.829	10.80	13.44	19.22
MAX	29.0	0.000	0.000	0.000	0.000	25.1	11.1	21.5	20.4	17.1	21.1	29.8
(WY)	1999	1992	1992	1992	1992	1996	1998	1995	1995	2000	1998	1996
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.45	0.91	0.45	0.12	0.23	0.000
(WY)	1995	1992	1992	1992	1992	1992	1997	2000	2002	2002	1992	1992

SUMMARY STATISTICS	WATER YEARS 1991 - 2002		
ANNUAL MEAN	2.82		
HIGHEST ANNUAL MEAN	2.82		1992
LOWEST ANNUAL MEAN	2.82		1992
HIGHEST DAILY MEAN	41	Sep 27	2002
LOWEST DAILY MEAN	0.00	May 24	1991
ANNUAL SEVEN-DAY MINIMUM	0.00	May 24	1991
ANNUAL RUNOFF (AC-FT)	2040		
10 PERCENT EXCEEDS	15		
50 PERCENT EXCEEDS	0.00		
90 PERCENT EXCEEDS	0.00		

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1991 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--June 1991 to current year.
WATER TEMPERATURE.--June 1991 to current year.

INSTRUMENTATION.--Water-quality monitor June 1991 to September 1992, hourly; March 1993 to current year (irrigation season only), hourly.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In April 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C. Interruptions in record due to intermittent streamflow (see Water-Discharge Record) and instrument malfunction. Reported values are for days with continuous flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 914 microsiemens, April 2, 1994; minimum recorded, 171 microsiemens, May 13, 2000.
WATER TEMPERATURE.--Maximum recorded, 32.5°C, July 2, 2001; minimum recorded, 3.0°C, March 1, 1996.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE.--Maximum recorded during period of operation, 873 microsiemens, April 9; minimum recorded, 321 microsiemens, September 23 and 24.
WATER TEMPERATURE.--Maximum recorded during period of operation, 32.0°C, July 2, 10; minimum recorded, 6.5°C, November 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	437	429	433	437	431	434	---	---	---	---	---	---
2	436	429	433	439	431	436	---	---	---	---	---	---
3	435	427	432	440	434	437	---	---	---	---	---	---
4	434	426	430	442	435	439	---	---	---	---	---	---
5	445	411	430	456	439	448	---	---	---	---	---	---
6	469	445	457	460	451	456	---	---	---	---	---	---
7	480	463	471	463	443	453	---	---	---	---	---	---
8	501	479	490	458	446	453	---	---	---	---	---	---
9	499	486	493	465	449	457	---	---	---	---	---	---
10	491	463	477	485	465	478	---	---	---	---	---	---
11	463	427	447	503	485	495	---	---	---	---	---	---
12	429	404	415	517	501	507	---	---	---	---	---	---
13	418	405	412	521	514	519	---	---	---	---	---	---
14	437	407	422	525	513	520	---	---	---	---	---	---
15	436	409	427	---	---	---	---	---	---	---	---	---
16	435	427	430	---	---	---	---	---	---	---	---	---
17	441	426	433	---	---	---	---	---	---	---	---	---
18	439	427	435	---	---	---	---	---	---	---	---	---
19	450	425	436	---	---	---	---	---	---	---	---	---
20	450	405	423	---	---	---	---	---	---	---	---	---
21	432	414	424	---	---	---	---	---	---	---	---	---
22	433	411	423	---	---	---	---	---	---	---	---	---
23	427	412	422	---	---	---	---	---	---	---	---	---
24	426	409	420	---	---	---	---	---	---	---	---	---
25	409	395	401	---	---	---	---	---	---	---	---	---
26	406	396	401	---	---	---	---	---	---	---	---	---
27	412	404	407	---	---	---	---	---	---	---	---	---
28	419	410	413	---	---	---	---	---	---	---	---	---
29	426	418	422	---	---	---	---	---	---	---	---	---
30	431	425	428	---	---	---	---	---	---	---	---	---
31	435	428	432	---	---	---	---	---	---	---	---	---
MONTH	501	395	433	---	---	---	---	---	---	---	---	---

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	447	441	444
2	---	---	---	---	---	---	---	---	---	448	440	444
3	---	---	---	---	---	---	---	---	---	462	444	451
4	---	---	---	---	---	---	---	---	---	458	446	451
5	---	---	---	---	---	---	---	---	---	458	448	452
6	---	---	---	---	---	---	---	---	---	462	449	455
7	---	---	---	---	---	---	1020	883	911	461	453	458
8	---	---	---	---	---	---	908	852	878	475	452	462
9	---	---	---	---	---	---	873	788	808	483	472	477
10	---	---	---	---	---	---	794	735	752	487	474	482
11	---	---	---	---	---	---	766	750	758	489	477	483
12	---	---	---	---	---	---	775	758	766	494	476	485
13	---	---	---	---	---	---	803	686	774	516	489	505
14	---	---	---	---	---	---	687	570	594	508	491	502
15	---	---	---	---	---	---	580	502	559	499	449	478
16	---	---	---	---	---	---	529	492	505	450	429	441
17	---	---	---	---	---	---	537	515	524	445	431	440
18	---	---	---	---	---	---	517	511	515	448	429	440
19	---	---	---	---	---	---	515	508	511	444	429	438
20	---	---	---	---	---	---	514	498	508	442	431	437
21	---	---	---	---	---	---	500	489	495	436	423	430
22	---	---	---	---	---	---	494	485	489	428	412	423
23	---	---	---	---	---	---	501	491	497	425	412	419
24	---	---	---	---	---	---	508	497	503	421	401	411
25	---	---	---	---	---	---	513	503	507	411	401	406
26	---	---	---	---	---	---	518	502	507	414	406	409
27	---	---	---	---	---	---	515	501	508	415	406	411
28	---	---	---	---	---	---	508	447	476	418	409	413
29	---	---	---	---	---	---	453	437	445	424	415	418
30	---	---	---	---	---	---	447	438	441	495	420	434
31	---	---	---	---	---	---	---	---	---	495	426	439
MONTH	---	---	---	---	---	---	---	---	---	516	401	446

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	458	434	446	461	434	449	411	396	406	503	449	471
2	447	439	444	485	456	469	446	404	417	449	429	436
3	448	436	444	488	462	476	---	---	---	435	402	416
4	445	438	442	476	453	465	500	428	450	410	393	402
5	458	441	447	465	447	457	521	416	486	404	388	395
6	475	455	465	456	441	449	423	384	401	415	378	398
7	470	452	463	452	420	438	407	384	395	434	389	421
8	463	442	454	423	411	418	404	389	395	478	389	447
9	448	437	444	427	415	421	406	389	399	481	404	453
10	445	436	442	431	415	424	413	399	402	415	393	405
11	445	438	442	434	417	426	416	401	407	397	377	387
12	446	439	443	428	413	420	418	396	404	387	367	378
13	466	440	455	431	411	422	431	412	420	381	347	370
14	---	---	---	429	417	422	462	413	427	369	339	364
15	---	---	---	440	414	423	481	449	470	373	361	366
16	---	---	---	429	410	421	484	473	479	385	359	378
17	---	---	---	428	413	420	488	477	482	401	377	389
18	---	---	---	423	411	418	488	476	481	398	376	389
19	---	---	---	417	402	410	493	474	482	423	384	409
20	---	---	---	417	394	409	491	420	440	409	367	389
21	---	---	---	407	390	398	424	381	412	391	348	370
22	---	---	---	401	383	393	426	399	415	359	336	347
23	---	---	---	398	379	388	422	382	413	344	321	330
24	490	444	459	393	377	386	444	375	414	379	321	348
25	508	490	503	392	377	385	445	408	432	362	347	354
26	503	490	497	389	376	382	460	439	450	364	344	356
27	502	491	496	387	373	380	468	443	457	360	338	351
28	500	446	489	395	378	387	475	450	463	371	351	363
29	448	426	434	403	390	397	470	432	456	389	362	373
30	452	432	439	408	397	402	442	427	435	406	386	394
31	---	---	---	408	395	403	464	432	446	---	---	---
MONTH	---	---	---	488	373	418	---	---	---	503	321	388

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.0	16.5	18.5	12.0	9.5	10.5	---	---	---	---	---	---
2	21.0	17.5	19.0	11.5	9.0	10.0	---	---	---	---	---	---
3	22.0	18.0	19.5	11.5	9.0	10.0	---	---	---	---	---	---
4	21.0	18.0	19.5	11.5	9.0	10.0	---	---	---	---	---	---
5	21.0	18.0	19.0	12.0	9.0	10.5	---	---	---	---	---	---
6	20.5	17.0	19.0	12.0	9.5	10.5	---	---	---	---	---	---
7	20.0	16.5	18.0	12.0	9.5	11.0	---	---	---	---	---	---
8	19.0	17.0	18.0	9.5	7.5	8.5	---	---	---	---	---	---
9	17.5	15.0	16.0	10.0	7.0	8.0	---	---	---	---	---	---
10	15.5	13.0	14.0	9.0	6.5	7.5	---	---	---	---	---	---
11	14.5	13.0	13.5	10.0	7.5	8.5	---	---	---	---	---	---
12	14.5	11.5	13.0	10.0	8.0	9.0	---	---	---	---	---	---
13	14.0	11.5	13.0	10.5	9.0	9.5	---	---	---	---	---	---
14	14.5	11.5	13.0	11.5	9.0	10.0	---	---	---	---	---	---
15	14.5	12.0	13.0	---	---	---	---	---	---	---	---	---
16	14.5	13.0	13.5	---	---	---	---	---	---	---	---	---
17	16.0	12.5	14.0	---	---	---	---	---	---	---	---	---
18	15.5	12.5	14.0	---	---	---	---	---	---	---	---	---
19	15.0	12.5	13.5	---	---	---	---	---	---	---	---	---
20	16.0	13.0	14.5	---	---	---	---	---	---	---	---	---
21	16.0	13.5	14.5	---	---	---	---	---	---	---	---	---
22	15.5	13.5	14.5	---	---	---	---	---	---	---	---	---
23	15.5	13.5	14.5	---	---	---	---	---	---	---	---	---
24	14.0	11.0	12.5	---	---	---	---	---	---	---	---	---
25	12.5	10.0	11.5	---	---	---	---	---	---	---	---	---
26	13.0	10.0	11.5	---	---	---	---	---	---	---	---	---
27	12.0	10.0	11.0	---	---	---	---	---	---	---	---	---
28	12.0	10.5	11.0	---	---	---	---	---	---	---	---	---
29	12.0	10.5	11.0	---	---	---	---	---	---	---	---	---
30	11.5	11.0	11.5	---	---	---	---	---	---	---	---	---
31	12.0	10.0	11.0	---	---	---	---	---	---	---	---	---
MONTH	22.0	10.0	14.5	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
2	---	---	---	---	---	---	---	---	---	19.0	11.5	15.0
3	---	---	---	---	---	---	---	---	---	20.5	15.0	17.0
4	---	---	---	---	---	---	---	---	---	20.5	16.0	18.0
5	---	---	---	---	---	---	---	---	---	25.0	16.5	19.5
6	---	---	---	---	---	---	---	---	---	22.0	15.0	18.5
7	---	---	---	---	---	---	23.0	9.5	16.0	19.5	14.5	17.5
8	---	---	---	---	---	---	18.5	11.0	15.0	19.0	13.5	16.0
9	---	---	---	---	---	---	17.5	15.5	16.0	20.0	14.0	17.0
10	---	---	---	---	---	---	18.0	14.0	15.5	19.0	14.0	16.0
11	---	---	---	---	---	---	18.0	14.5	16.0	19.0	14.0	15.5
12	---	---	---	---	---	---	19.5	15.0	16.5	20.5	14.5	17.5
13	---	---	---	---	---	---	23.5	9.5	17.0	21.0	15.0	18.0
14	---	---	---	---	---	---	20.0	15.5	17.5	22.0	17.0	19.5
15	---	---	---	---	---	---	15.5	11.0	13.0	22.5	16.5	19.5
16	---	---	---	---	---	---	12.5	9.5	11.0	22.0	16.5	19.0
17	---	---	---	---	---	---	11.5	9.0	10.0	22.5	17.0	20.0
18	---	---	---	---	---	---	11.0	9.5	10.0	24.0	19.0	21.0
19	---	---	---	---	---	---	11.5	9.0	10.0	22.5	17.5	20.0
20	---	---	---	---	---	---	11.5	9.5	10.5	19.0	15.5	17.0
21	---	---	---	---	---	---	17.5	9.5	12.5	17.5	13.0	15.0
22	---	---	---	---	---	---	15.5	11.0	13.0	18.0	12.0	15.0
23	---	---	---	---	---	---	15.5	13.0	14.0	19.0	13.0	15.5
24	---	---	---	---	---	---	14.0	11.0	13.0	20.0	15.5	17.5
25	---	---	---	---	---	---	17.0	12.5	14.5	20.5	15.5	18.5
26	---	---	---	---	---	---	18.0	14.0	15.0	22.0	17.0	19.5
27	---	---	---	---	---	---	19.5	13.0	15.5	22.0	17.5	20.0
28	---	---	---	---	---	---	18.0	10.5	15.0	23.0	17.5	20.0
29	---	---	---	---	---	---	15.5	12.5	14.5	24.0	19.0	21.5
30	---	---	---	---	---	---	16.5	13.5	15.0	26.0	21.5	23.5
31	---	---	---	---	---	---	---	---	---	27.0	22.0	24.0
MONTH	---	---	---	---	---	---	---	---	---	27.0	11.5	18.2

CARSON RIVER BASIN

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.0	21.5	23.5	31.0	23.0	27.0	25.5	22.0	24.0	26.0	21.5	24.0
2	23.0	19.5	21.0	32.0	23.0	27.0	25.0	21.0	23.0	25.5	23.0	24.0
3	23.0	18.5	21.0	31.5	23.0	26.5	---	---	---	25.5	22.0	23.5
4	23.0	19.0	21.0	31.0	22.0	26.5	27.5	15.5	22.0	23.0	21.0	22.0
5	24.5	19.5	22.0	31.0	23.0	26.5	23.5	19.5	21.5	22.0	19.5	20.5
6	27.0	21.0	23.5	30.5	23.0	26.5	23.0	20.0	21.5	20.0	18.5	19.5
7	25.5	21.5	23.5	31.5	23.0	26.5	22.0	19.0	21.0	19.5	16.5	18.0
8	22.0	18.0	20.0	29.5	20.5	25.5	21.5	17.5	19.5	19.5	16.5	18.0
9	19.0	15.5	17.0	29.5	21.5	25.5	23.5	17.5	21.0	20.0	16.0	18.0
10	19.5	15.5	17.0	32.0	22.0	27.0	25.5	20.0	22.5	20.5	17.5	19.0
11	20.5	15.5	18.0	29.0	23.5	26.5	27.5	21.0	23.5	21.5	17.0	19.5
12	21.5	17.0	19.0	28.5	23.5	25.5	25.5	21.5	23.5	22.5	18.5	20.5
13	23.5	17.5	20.5	29.0	22.0	25.0	26.0	22.5	24.0	22.5	19.0	20.5
14	---	---	---	27.5	22.0	25.0	27.0	21.5	24.0	22.5	20.0	21.0
15	---	---	---	29.0	22.0	25.5	27.5	23.0	25.0	22.0	20.0	21.0
16	---	---	---	29.5	22.5	26.0	27.5	23.5	25.5	21.5	19.0	20.0
17	---	---	---	28.5	23.5	26.0	26.0	22.5	24.5	22.0	18.0	20.0
18	---	---	---	25.0	21.5	23.0	25.5	21.5	23.5	21.0	17.0	19.0
19	---	---	---	25.5	19.5	22.5	25.0	21.0	23.0	20.5	16.5	18.5
20	---	---	---	27.0	21.0	24.0	24.5	21.5	22.5	21.0	16.0	18.5
21	---	---	---	26.5	21.5	24.0	23.0	20.5	22.0	21.5	18.0	19.5
22	---	---	---	27.5	22.0	24.5	23.5	20.0	21.5	21.5	18.0	19.5
23	---	---	---	27.0	21.5	24.0	23.5	19.5	21.5	22.0	18.0	20.0
24	29.0	23.0	25.5	27.0	21.5	24.0	23.5	19.5	22.0	22.0	17.0	19.5
25	27.5	21.5	24.5	27.0	21.5	24.0	24.5	20.0	22.0	22.0	19.0	20.0
26	28.0	21.0	24.0	25.0	20.5	23.0	24.5	21.0	22.5	19.5	16.5	18.0
27	29.0	22.0	25.0	26.0	20.5	23.5	23.5	21.0	22.0	19.5	16.5	18.0
28	28.5	21.0	24.5	26.0	20.5	23.0	23.5	20.5	22.0	18.0	16.0	17.0
29	30.0	22.5	26.0	26.0	20.5	23.0	24.5	21.0	22.5	18.0	16.5	17.0
30	30.5	23.0	26.5	26.0	21.5	24.0	25.0	21.5	23.5	17.5	15.5	16.5
31	---	---	---	26.5	22.0	24.5	25.5	21.5	24.0	---	---	---
MONTH	---	---	---	32.0	19.5	25.0	---	---	---	26.0	15.5	19.7

10312275 CARSON RIVER AT TARZYN ROAD NEAR FALLON, NV

LOCATION.--Lat 39°33'32", long 118°43'30", in NE $^1/_4$ NE $^1/_4$ sec.33, T.19 N., R.29 E., Churchill County, Hydrologic Unit 16050203, on right bank, 7 mi north-northeast of Fallon.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,900 ft above NGVD of 1929, from topographic map. Prior to October 1, 1996, at same site at datum 3.0 ft lower.

REMARKS.-- No estimated daily discharges. Records fair. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir (station 10312100). See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 942 ft^3/s, May 27, 1996, gage height, 6.11 ft, (datum then in use); maximum gage height, 8.73 ft, January 22, 1997; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft^3/s, July 15, gage height, 4.99 ft; minimum daily, 1.4 ft^3/s, March 24, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	17	1.8	2.4	3.1	8.1	2.9	19	11	25	13	10
2	6.0	12	1.7	2.4	3.2	8.2	1.8	25	14	30	11	11
3	5.7	10	1.6	2.6	3.2	8.4	6.7	13	13	14	17	17
4	9.7	10	1.6	2.6	3.2	8.1	3.8	10	14	6.8	20	9.9
5	18	11	1.6	2.5	3.1	7.8	6.8	8.0	14	5.4	19	13
6	10	7.3	1.5	2.6	3.1	5.8	7.9	8.6	11	9.1	24	12
7	7.9	6.1	1.5	2.5	3.2	2.8	7.3	7.9	22	13	32	12
8	14	5.4	1.6	2.5	3.3	3.1	7.6	14	22	12	22	39
9	9.5	10	1.7	2.5	3.3	2.4	8.6	15	19	12	36	18
10	6.5	6.5	1.7	2.4	3.2	2.2	9.6	11	20	13	37	14
11	11	11	1.9	3.5	3.2	2.1	7.8	8.3	7.5	13	34	14
12	8.8	10	1.8	5.0	3.2	1.8	12	7.4	5.0	12	42	15
13	9.1	7.2	1.8	4.7	3.8	1.9	14	8.4	4.6	7.0	32	17
14	12	4.0	1.8	4.6	4.6	1.6	13	8.3	4.8	16	34	9.3
15	11	3.6	1.9	4.6	4.5	1.7	4.8	8.5	4.9	46	42	6.9
16	12	2.8	1.9	4.6	3.9	1.6	4.8	7.6	5.0	48	35	9.6
17	12	1.9	2.6	4.7	3.3	1.6	2.9	7.8	4.5	11	39	8.4
18	17	2.0	2.2	4.7	3.2	1.7	2.5	13	6.1	11	23	8.3
19	8.0	2.3	2.2	4.7	3.1	1.6	2.7	9.6	11	10	15	6.6
20	7.8	2.3	2.3	4.6	4.5	1.7	3.1	10	9.1	9.5	24	6.6
21	6.9	2.1	2.3	4.8	9.5	1.7	4.0	21	13	7.8	37	8.1
22	6.4	1.9	2.4	4.9	9.3	1.6	7.3	12	15	11	48	5.5
23	5.5	1.7	2.4	5.1	8.5	1.5	6.4	17	30	8.3	37	11
24	7.9	1.9	2.5	4.9	8.2	1.4	7.3	12	24	6.2	23	17
25	8.6	1.9	2.5	5.0	8.1	1.6	5.3	8.9	11	12	11	10
26	20	2.0	2.3	5.0	8.1	1.4	4.7	7.1	8.4	15	29	18
27	24	1.7	2.3	3.3	8.1	1.5	10	13	10	21	42	18
28	28	1.8	2.4	3.4	8.1	2.2	20	10	7.2	20	32	20
29	30	1.7	2.4	3.3	---	2.9	14	12	15	38	15	32
30	31	1.7	2.5	4.1	---	2.7	14	9.2	10	26	18	17
31	26	---	2.5	3.8	---	2.5	---	9.2	---	13	19	---
TOTAL	400.3	160.8	63.2	118.3	137.1	95.2	223.6	351.8	366.1	502.1	862	414.2
MEAN	12.91	5.360	2.039	3.816	4.896	3.071	7.453	11.35	12.20	16.20	27.81	13.81
MAX	31	17	2.6	5.1	9.5	8.4	20	25	30	48	48	39
MIN	5.5	1.7	1.5	2.4	3.1	1.4	1.8	7.1	4.5	5.4	11	5.5
AC-FT	794	319	125	235	272	189	444	698	726	996	1710	822

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	8.958	5.855	4.264	43.07	53.73	76.83	31.34	109.5	115.1	35.62	14.66	11.34
MAX	19.1	13.7	12.3	660	727	582	428	441	624	319	29.5	19.3
(WY)	1987	1987	1994	1997	1997	1986	1986	1996	1995	1995	2002	1999
MIN	0.019	0.028	0.63	1.05	0.92	1.20	2.36	4.35	4.72	5.89	0.93	0.045
(WY)	1993	1993	1993	1992	1992	2001	1991	1992	1992	1991	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	2494.53		3694.7			
ANNUAL MEAN	6.834		10.12		43.39	
HIGHEST ANNUAL MEAN					170	1997
LOWEST ANNUAL MEAN					2.38	1992
HIGHEST DAILY MEAN	34	Sep 9	48	Jul 16	896	May 20 1996
LOWEST DAILY MEAN	0.71	Feb 11	1.4	Mar 24	0.00	Sep 29 1992
ANNUAL SEVEN-DAY MINIMUM	0.81	Feb 5	1.5	Mar 21	0.01	Sep 26 1992
MAXIMUM PEAK FLOW			70	Jul 15	942	May 27 1996
MAXIMUM PEAK STAGE			4.99	Jul 15	8.73	Jan 22 1997
ANNUAL RUNOFF (AC-FT)	4950		7330		31440	
10 PERCENT EXCEEDS	15		22		30	
50 PERCENT EXCEEDS	5.8		7.9		5.9	
90 PERCENT EXCEEDS	0.97		1.9		1.8	

CARSON RIVER BASIN

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV

LOCATION.--Lat 39°36'38", long 118°33'04", in SW $^{1}/_{4}$ SW $^{1}/_{4}$ sec.7, T.20 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on right bank, 6 mi north of Stillwater.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,880 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow in canal is return flow from irrigated lands and ground water inflows from Fallon Indian Reservation. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 198 ft^3/s, June 26, 1995; no flow many days, some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.4	2.0	4.1	1.4	0.50	0.95	7.1	14	3.4	1.2	2.0
2	2.2	9.1	1.9	4.0	1.6	0.49	0.45	4.8	9.7	3.3	0.83	1.3
3	7.1	9.4	1.9	4.4	1.8	0.48	0.26	3.2	6.1	2.8	1.5	1.3
4	8.6	9.8	1.7	4.4	1.7	0.51	0.26	3.9	4.3	2.0	3.2	2.5
5	8.2	8.8	1.7	4.3	1.9	0.52	0.27	6.0	4.2	1.2	5.6	2.5
6	6.7	8.8	1.6	4.3	2.4	0.54	3.6	14	3.2	0.74	5.4	2.3
7	7.6	7.5	1.4	4.3	3.2	0.66	1.3	7.8	3.4	0.86	4.0	5.8
8	7.9	3.2	1.4	4.3	3.2	0.70	1.8	6.7	2.8	1.9	3.7	5.4
9	7.9	1.9	1.3	4.2	3.1	0.62	1.2	5.0	2.7	3.6	3.7	4.8
10	7.7	1.6	1.5	4.0	3.9	0.64	0.73	6.2	2.8	5.3	4.6	3.9
11	7.5	1.6	1.6	3.6	5.2	0.61	1.9	7.3	2.9	5.0	5.0	5.0
12	8.0	1.6	1.6	3.3	5.6	3.8	8.9	10	2.9	5.0	3.2	4.4
13	9.9	1.8	1.5	3.3	5.2	5.7	8.4	4.6	3.9	3.9	6.1	3.4
14	8.6	1.9	1.3	2.9	4.4	5.8	7.9	4.4	1.7	2.0	4.5	2.6
15	11	1.9	1.1	2.6	3.9	6.0	7.7	5.6	1.1	1.9	14	3.0
16	10	2.4	1.2	2.2	3.9	6.2	4.9	7.9	0.75	1.7	17	2.7
17	9.1	1.9	1.1	1.7	4.5	6.3	3.7	14	2.6	1.7	11	3.3
18	8.4	1.5	1.4	1.5	4.7	6.0	6.4	10	2.2	1.3	9.6	3.3
19	6.9	1.5	1.3	1.7	3.9	4.4	8.9	9.1	1.9	2.3	17	3.4
20	10	1.4	1.3	e1.7	3.4	3.0	8.9	12	3.1	5.4	8.7	4.5
21	10	1.9	1.5	e1.7	2.8	3.1	5.9	15	1.8	3.2	8.8	3.7
22	9.8	2.2	1.9	e1.7	2.6	4.4	7.2	17	1.9	2.7	6.3	3.4
23	9.2	2.0	2.8	1.8	2.2	5.2	5.7	24	4.3	2.1	4.9	3.6
24	8.8	2.0	3.0	1.6	2.0	5.3	5.0	15	4.5	0.99	4.5	3.3
25	3.8	2.1	2.6	1.7	2.0	5.5	9.5	6.0	3.5	0.79	3.9	2.9
26	2.4	1.9	3.0	1.8	1.5	5.5	9.2	3.6	2.8	4.5	4.5	2.8
27	2.1	1.7	3.1	1.6	0.91	5.5	5.9	5.8	3.1	7.2	6.2	2.3
28	2.0	1.8	3.0	1.3	0.62	5.3	3.6	4.9	2.8	7.5	3.6	1.7
29	1.9	2.1	3.2	0.97	---	4.3	4.1	3.3	2.4	4.7	2.2	2.7
30	1.8	2.0	3.3	e1.4	---	2.9	6.8	3.9	2.2	2.9	2.0	5.0
31	1.8	---	4.1	1.4	---	1.8	---	9.4	---	2.2	2.2	---
TOTAL	209.4	101.7	61.3	83.77	83.53	102.27	141.32	257.5	105.55	94.08	178.93	98.8
MEAN	6.755	3.390	1.977	2.702	2.983	3.299	4.711	8.306	3.518	3.035	5.772	3.293
MAX	11	9.8	4.1	4.4	5.6	6.3	9.5	24	14	7.5	17	5.8
MIN	1.8	1.4	1.1	0.97	0.62	0.48	0.26	3.2	0.75	0.74	0.83	1.3
AC-FT	415	202	122	166	166	203	280	511	209	187	355	196

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	8.214	3.787	3.168	8.540	11.01	19.05	10.50	18.45	24.52	8.258	7.221	10.07
MAX	23.7	12.3	13.9	55.0	83.4	71.6	57.4	66.3	82.1	41.3	16.7	37.4
(WY)	1997	1997	1998	1997	1997	1996	1998	1999	1995	1995	1999	1993
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.42	0.28	0.42	0.000	0.000
(WY)	1993	1993	1993	1993	1993	1992	1993	1993	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1991 - 2002	
ANNUAL TOTAL	1526.37		1518.15			
ANNUAL MEAN	4.182		4.159		11.05	
HIGHEST ANNUAL MEAN					28.8	1997
LOWEST ANNUAL MEAN					0.17	1992
HIGHEST DAILY MEAN	14	May 20	24	May 23	198	Jun 26 1995
LOWEST DAILY MEAN	0.20	Jan 16	0.26	Apr 3	0.00	Dec 26 1990
ANNUAL SEVEN-DAY MINIMUM	0.33	Jan 15	0.52	Feb 28	0.00	Dec 26 1990
ANNUAL RUNOFF (AC-FT)	3030		3010		8010	
10 PERCENT EXCEEDS	8.6		8.8		32	
50 PERCENT EXCEEDS	3.2		3.3		3.0	
90 PERCENT EXCEEDS	0.83		1.3		0.00	

e Estimated

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1986 to May 1987, October 1990 to October 1996, April 1997 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--October 1990 to October 1996, April 1997 to current year.
WATER TEMPERATURE.--October 1990 to October 1996, April 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1990, to August 1993, hourly; September to December 1993, four times per hour; January to October 1996 hourly; April 1997 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In April 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 67,200 microsiemens, October 19, 1990; minimum recorded, 342 microsiemens, September 19, 1993.
WATER TEMPERATURE.--Maximum recorded, 36.5°C, July 28, 1991; minimum, freezing point or below, on many days during winter months most years due to extremely high conductance values.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE.--Maximum recorded, 30,500 microsiemens, April 6; minimum recorded, 1100 microsiemens, October 14.
WATER TEMPERATURE.--Maximum recorded, 34.0°C, July 6; minimum, -0.5°C many days December to March.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4680	3140	3680	11700	3030	6570	11200	10400	10800	6280	5500	5850
2	6480	4680	5780	3030	2290	2420	11900	10000	11300	5630	5150	5470
3	5860	1420	2050	2540	2330	2420	12500	11500	12100	5660	4960	5410
4	2330	1480	1930	2640	2300	2420	13300	12100	12600	5400	4650	5060
5	2400	1690	2130	2860	2390	2590	13200	11600	12300	4800	4600	4710
6	4300	1480	2780	3590	2860	3190	14100	12700	13200	4830	4620	4740
7	2810	1480	2260	3720	3270	3400	14100	13100	13600	4890	4750	4820
8	2590	1980	2280	7690	3720	5600	14400	12400	13500	5040	4800	4910
9	2380	1810	2110	9390	7690	8550	15300	12200	13900	5380	4940	5200
10	2190	1810	2040	10400	9390	9950	15300	13200	14200	5730	5380	5560
11	3340	1860	2810	11200	10400	10800	14100	12500	13400	6380	5650	5880
12	3140	2000	2600	11600	11100	11400	14100	12700	13400	6380	5910	6140
13	5320	2170	4320	11500	11000	11200	14400	13500	13900	6700	6340	6510
14	3080	1100	1880	11700	11200	11500	16000	13500	14400	8730	5560	6940
15	1250	1140	1190	11500	11100	11300	16100	15000	15600	9380	7050	8040
16	1480	1250	1390	11300	7870	9560	16500	13200	15500	11500	7690	9870
17	1850	1420	1670	7870	7380	7550	16600	14900	15700	13900	8350	10900
18	2710	1510	1960	9100	7660	8290	16600	15400	15900	14600	9890	12600
19	3980	1700	2690	11100	9100	10100	16200	12800	14900	14100	6270	10400
20	1910	1730	1820	12100	11100	11600	16100	13100	14900	11300	4610	8010
21	2690	1750	2050	12400	7480	9430	14800	13400	14000	7640	6160	6740
22	2960	2520	2810	9450	7790	8470	14400	7630	11700	10500	5620	7740
23	2520	1910	2170	9540	8900	9230	9530	6560	7820	11000	6240	8890
24	3880	1790	2240	9970	8980	9680	7430	6900	7200	15800	9020	13300
25	6830	3880	5450	10500	9740	10200	7700	5500	6860	15700	12300	14300
26	7700	6760	7230	11300	10500	10800	9910	5020	6740	16100	10800	13700
27	8680	7700	8120	12100	10100	11200	6560	5720	6060	16400	12100	14500
28	10000	8680	9380	12500	10500	11800	6480	5770	6180	18000	13400	16500
29	10700	10000	10400	11800	10500	10900	6590	5980	6320	19700	15200	17700
30	11000	10700	10900	11800	10400	11200	6500	6020	6270	24400	16900	21300
31	11500	11000	11300	---	---	---	6470	5610	6130	21600	16200	19200
MONTH	11500	1100	3920	12500	2290	8440	16600	5020	11600	24400	4600	9380

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	17400	15100	16400	25200	22800	23900	17000	10400	13300	7990	3330	5750
2	17800	11300	15400	25500	23300	24500	24800	17000	20900	3480	2750	3050
3	13800	10000	12200	25400	22900	24300	27700	24800	26500	4880	3480	4320
4	13900	9550	12500	24800	22700	24000	28400	26800	27700	4800	3930	4360
5	12900	9380	11900	24400	23200	24000	28300	27300	27900	3930	2060	3080
6	12900	7540	10100	24400	23800	24200	30500	9060	19500	2060	1280	1630
7	13800	6080	8390	24200	23800	24000	12200	8500	9760	4440	1550	3190
8	10800	6790	7660	25100	23900	24300	14300	9000	11900	6540	2110	2690
9	7300	5170	6350	25100	23900	24500	9000	7830	8180	10400	3400	6010
10	7120	4290	5250	24700	24000	24200	11800	8700	10100	4060	2530	3340
11	5500	2700	4190	24400	23800	24100	13800	4000	11600	4280	2980	3460
12	4480	3570	3900	24200	3260	9550	4000	2420	2850	4420	1680	2450
13	4850	4080	4360	3350	2870	3110	3500	1740	2530	3090	1690	2490
14	5500	4850	5130	3000	2860	2920	2060	1670	1820	3480	2780	3120
15	6190	4110	5570	3450	1980	2840	2380	1780	2080	3440	2600	3020
16	5790	5190	5470	3010	2770	2850	10300	1990	3540	2760	2010	2390
17	5680	4750	5140	2990	2660	2830	12700	4110	8560	5850	1740	3630
18	5850	5090	5460	3630	1880	2990	5150	2340	3770	2500	1870	2100
19	6700	5850	6130	4660	2580	3980	2860	1800	2330	2690	1650	2130
20	7950	6700	7100	5590	4380	5100	2460	1660	2010	4070	1800	2920
21	8790	7760	7970	5470	4060	4850	2440	1650	2050	2290	1530	1800
22	9450	8550	8810	4060	3240	3530	3230	2050	2470	1640	1270	1420
23	10900	8370	9910	3300	3070	3190	3780	2340	2950	2920	1330	2030
24	10900	9260	10100	3160	2970	3070	4420	2390	3000	2920	1510	2180
25	11300	9830	10200	3230	3020	3130	4900	1170	3200	2700	1570	2170
26	14900	11300	13000	3110	2900	3010	2730	1150	2170	4300	2700	3660
27	20200	14900	17900	3030	2800	2940	3530	2060	2490	3800	2820	3360
28	23800	20200	22000	3180	2810	3000	4700	3530	4350	3300	2490	2850
29	---	---	---	4150	3090	3590	5650	4580	5260	4490	2840	3630
30	---	---	---	6320	4130	5210	5270	3240	3890	7990	3550	6510
31	---	---	---	10400	6310	8030	---	---	---	5910	2580	4200
MONTH	23800	2700	9230	25500	1880	11200	30500	1150	8290	10400	1270	3190
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3460	1810	2390	8890	2630	4740	5920	3560	4930	8240	6990	7740
2	2810	1800	2050	9020	4630	6770	8280	5920	7510	7450	6810	7130
3	3500	1590	2650	4640	3130	3900	11000	7800	9800	7480	5920	6790
4	1840	1560	1700	3580	3010	3300	9950	6480	8040	5940	3040	4290
5	4530	1580	3110	4120	3200	3740	9390	4570	6890	5600	3470	4490
6	5370	3580	4670	4700	4030	4450	4570	3180	3500	7990	3390	5160
7	3580	2310	2770	5250	4470	5040	3180	2920	3010	11300	2920	6760
8	2850	2310	2620	7910	4890	5400	4370	3140	4070	3230	1790	2550
9	5410	2710	3710	8730	6850	7870	4420	4000	4270	3200	2240	2530
10	6290	4280	5540	6860	3320	5630	4190	3000	3570	2930	1860	2230
11	4280	3670	4030	3320	1760	2260	4570	2900	3750	3970	2920	3590
12	8880	3730	4610	2960	2130	2550	4880	3420	4570	3810	2750	3140
13	10400	4610	8080	3330	2570	2780	3420	1680	2520	3060	2370	2550
14	4610	3750	3960	3860	3300	3450	6260	3090	4650	4780	2440	3250
15	6630	4110	5580	6320	3860	5740	4810	1280	3100	4860	3630	4190
16	7300	6630	6910	6510	5380	5900	1960	1250	1630	3630	2600	2930
17	8930	7180	8310	6970	5840	6560	2030	1310	1550	5540	1990	3280
18	7780	4060	5540	6550	5940	6250	2030	1460	1640	5970	3900	5020
19	5350	4370	4940	6800	2980	5480	1880	1450	1690	5790	2530	3920
20	9340	3910	5920	3700	2190	2780	2260	1650	1930	5820	3190	4310
21	10700	8390	9770	4900	2560	3630	2490	1580	2020	3190	2670	2790
22	8450	2640	5220	5430	4830	5060	3760	2420	3100	2800	1660	2190
23	4640	1480	2760	5960	4820	5280	4160	3170	3600	3590	2340	2970
24	4350	3250	3660	6940	5180	6300	3850	2800	3300	3710	2780	3360
25	4060	2440	3090	7720	5640	6760	2800	2480	2590	4160	2890	3600
26	2940	2190	2580	11800	6010	9150	2680	2260	2370	4630	3330	3990
27	4280	2270	3440	8380	2130	3320	2360	1520	1860	5920	4340	4820
28	3980	2600	3290	2200	1900	2000	3560	2060	2760	8520	5920	6810
29	3810	2310	2650	2420	1880	2210	5740	3560	4790	9120	4880	6920
30	4290	3180	3830	3140	2100	2640	7920	5730	6940	9060	4940	6880
31	---	---	---	3830	2950	3350	8740	7890	8340	---	---	---
MONTH	10700	1480	4310	11800	1760	4650	11000	1250	4010	11300	1660	4340

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.0	13.5	18.5	12.5	5.0	9.0	6.0	2.5	4.0	6.0	4.0	5.0
2	25.5	13.0	18.5	11.5	6.5	9.0	6.5	2.5	4.0	5.5	3.0	4.5
3	22.5	15.0	18.0	12.0	6.0	9.0	7.0	1.0	3.5	8.5	3.5	6.0
4	22.5	15.5	19.0	12.0	6.5	9.5	4.5	0.0	2.0	5.0	0.5	3.0
5	21.5	15.0	18.0	12.5	7.0	10.0	3.0	0.5	2.0	4.0	1.0	2.5
6	20.5	13.0	17.0	12.5	7.5	10.0	8.5	1.0	4.0	4.5	3.0	4.0
7	20.5	13.5	17.0	12.0	7.5	10.0	7.5	0.5	3.5	5.0	2.0	3.5
8	18.5	14.5	16.5	11.0	4.0	7.5	4.0	0.0	1.5	5.5	1.0	3.0
9	17.0	11.0	14.0	10.5	2.0	6.0	2.0	-0.5	0.5	5.0	1.0	3.0
10	15.0	9.0	12.0	10.0	2.0	5.5	2.0	-0.5	0.5	6.0	0.5	3.5
11	15.0	11.0	12.5	12.5	4.5	8.0	4.5	0.0	1.5	5.5	0.0	3.0
12	15.0	8.0	11.5	11.5	5.5	8.5	5.5	0.5	2.5	7.5	1.5	4.5
13	15.5	9.0	12.0	12.0	7.0	9.5	5.5	1.0	3.0	6.0	0.5	3.5
14	16.5	9.0	12.5	13.5	6.5	9.5	4.0	-0.5	2.5	4.5	0.0	2.0
15	15.5	10.0	13.0	12.0	5.0	8.5	2.5	-0.5	0.5	3.5	0.0	1.0
16	15.0	10.5	13.0	11.5	6.5	8.5	1.0	-0.5	0.0	4.0	-0.5	1.0
17	17.0	11.5	14.0	13.5	6.5	9.0	0.5	-0.5	0.0	4.0	0.0	1.0
18	16.0	10.5	13.0	10.5	4.0	6.5	1.5	-0.5	0.0	4.5	0.0	1.5
19	15.5	8.0	12.0	7.5	2.0	5.0	2.5	-0.5	0.5	1.5	0.0	0.5
20	17.0	11.0	14.0	6.5	2.5	4.5	3.5	-0.5	1.0	0.5	-0.5	0.0
21	17.0	11.0	14.0	7.5	4.5	6.0	4.0	0.0	1.5	3.5	0.0	1.0
22	16.0	11.0	13.5	10.0	5.0	7.5	1.5	-0.5	0.5	3.0	0.0	1.0
23	16.0	11.5	13.5	7.5	1.5	4.5	2.5	0.0	1.0	3.0	0.0	0.5
24	13.0	7.5	10.5	7.0	3.5	4.5	4.5	0.5	2.0	4.0	0.0	1.0
25	13.0	5.5	9.0	6.0	1.0	3.5	1.5	0.0	0.5	2.5	0.0	0.5
26	15.0	5.5	9.5	6.0	0.5	2.5	1.5	-0.5	0.5	4.5	0.0	1.5
27	11.5	6.5	9.0	4.5	0.0	1.0	3.0	0.0	1.5	4.5	0.0	1.5
28	12.5	6.5	9.0	0.5	0.0	0.0	3.5	0.5	2.0	4.5	0.0	1.5
29	12.5	7.0	10.0	2.5	0.0	1.0	5.5	2.5	4.0	5.0	0.0	1.5
30	11.5	9.0	10.0	6.0	0.0	2.5	6.0	4.0	5.0	1.5	-0.5	0.0
31	15.0	5.5	9.5	---	---	---	7.5	4.5	6.0	3.0	-0.5	0.5
MONTH	25.5	5.5	13.3	13.5	0.0	6.5	8.5	-0.5	2.0	8.5	-0.5	2.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	-0.5	1.0	12.0	-0.5	3.5	21.0	9.5	15.0	15.5	10.5	13.0
2	4.5	0.0	1.5	12.5	-0.5	4.0	23.0	10.0	16.0	22.5	11.5	16.5
3	4.5	0.0	1.5	14.0	-0.5	4.0	23.0	9.0	15.5	25.0	13.5	19.0
4	5.0	0.0	1.5	15.0	-0.5	5.0	23.5	9.0	16.0	24.5	13.0	19.0
5	5.0	0.0	2.0	16.0	-0.5	7.0	21.0	11.5	15.5	24.5	14.0	19.5
6	6.0	0.0	2.0	11.0	3.0	7.0	20.0	11.0	15.0	24.5	14.5	19.0
7	6.5	0.0	3.5	13.0	2.5	6.5	21.5	10.5	15.5	19.0	12.0	16.0
8	8.0	0.5	4.0	13.5	-0.5	5.0	21.5	10.0	16.0	20.5	7.5	14.0
9	6.5	0.0	2.5	14.5	-0.5	5.5	17.5	11.5	14.5	20.5	10.0	15.5
10	5.5	0.0	2.5	13.0	2.5	6.5	21.0	9.5	14.5	17.0	11.5	14.5
11	6.5	0.0	3.0	16.5	1.0	8.5	21.5	11.0	16.5	21.5	9.5	16.0
12	9.0	1.0	5.0	12.0	6.5	9.5	22.0	13.0	17.5	23.5	12.5	18.0
13	5.5	1.0	3.5	11.0	3.0	7.0	22.5	13.0	17.5	25.0	15.0	19.5
14	11.0	2.0	6.5	11.5	3.0	7.0	21.5	15.5	18.0	25.0	15.5	20.0
15	7.5	0.5	4.5	10.0	0.5	5.0	16.0	10.0	12.5	24.0	16.0	20.5
16	8.0	1.5	4.5	9.0	3.0	5.5	12.5	6.5	9.5	24.5	15.5	20.5
17	8.0	3.5	5.5	7.5	1.5	4.0	14.5	7.5	10.5	27.0	17.0	22.0
18	9.0	3.0	6.0	11.5	0.0	5.5	12.0	7.5	10.0	28.0	20.0	24.0
19	9.0	4.5	6.5	13.0	1.0	7.5	14.0	8.5	11.0	23.5	18.5	21.0
20	10.5	5.5	8.0	14.0	5.0	10.0	16.0	7.5	11.5	18.5	15.5	16.5
21	14.0	4.0	9.0	14.5	7.5	11.0	19.0	8.5	14.0	17.5	12.0	15.0
22	13.5	5.0	9.5	14.5	8.5	11.5	21.5	11.5	16.5	21.0	12.5	17.0
23	11.0	5.5	8.5	13.5	8.5	11.0	22.5	13.0	17.5	22.0	14.5	18.5
24	14.5	3.0	8.0	14.5	8.0	11.0	19.0	11.0	15.5	23.5	15.5	19.5
25	13.5	2.5	7.5	15.5	6.0	11.0	22.0	12.0	17.0	26.0	17.5	21.5
26	14.5	1.5	7.0	17.5	8.0	12.5	18.5	14.5	16.5	27.0	18.5	22.5
27	15.5	1.0	7.0	18.5	8.5	13.5	20.5	12.0	15.5	26.5	19.5	23.0
28	15.5	0.0	5.0	18.0	9.0	13.5	20.5	10.0	15.5	27.5	19.5	23.5
29	---	---	---	19.0	9.5	14.5	17.0	13.5	15.5	30.5	21.0	25.5
30	---	---	---	19.0	9.5	14.5	19.0	11.0	15.0	32.0	21.5	26.5
31	---	---	---	19.0	10.0	14.5	---	---	---	30.0	21.5	25.5
MONTH	15.5	-0.5	4.9	19.0	-0.5	8.5	23.5	6.5	14.9	32.0	7.5	19.4

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	26.0	22.5	24.5	30.0	22.0	26.0	31.0	19.5	24.0	28.0	16.0	22.0
2	26.0	19.5	22.5	32.0	22.5	26.5	30.0	18.5	23.5	28.5	15.5	21.5
3	27.5	20.0	23.5	30.0	21.5	25.5	31.0	19.0	23.5	28.0	16.0	21.0
4	28.0	21.0	24.5	31.0	19.5	25.0	26.0	17.0	21.5	20.5	16.5	18.5
5	30.0	21.5	25.5	32.5	20.0	25.5	24.5	16.0	20.5	24.0	14.5	19.0
6	30.5	21.0	25.5	34.0	19.0	25.5	26.0	17.0	21.0	21.0	14.5	18.0
7	29.0	21.5	25.0	33.0	20.0	25.5	26.5	16.5	21.0	20.5	13.0	16.5
8	25.0	18.0	21.0	31.0	18.5	24.0	26.5	15.5	20.5	21.5	13.5	17.0
9	23.5	14.5	18.5	30.0	20.0	24.5	25.5	15.0	20.5	22.5	13.5	17.5
10	25.0	15.0	19.5	30.0	21.5	25.5	26.0	16.0	21.0	23.5	13.0	18.0
11	26.5	16.5	21.5	31.0	22.5	26.0	29.0	19.0	23.5	23.5	14.5	18.5
12	28.5	18.0	23.0	28.5	23.5	25.5	29.5	18.0	23.5	23.5	14.0	18.5
13	29.5	19.5	24.5	31.0	21.5	25.5	28.0	20.0	23.5	25.0	14.5	19.5
14	31.0	19.5	25.0	30.5	21.0	25.0	28.5	19.5	23.5	24.0	14.0	19.0
15	31.5	19.0	24.5	30.5	21.0	25.5	28.0	21.5	25.0	22.5	15.0	18.5
16	32.0	18.5	24.5	32.0	20.5	25.5	28.0	21.5	25.0	23.5	15.0	19.0
17	29.5	18.5	23.5	31.5	22.0	25.0	27.5	21.5	24.0	22.5	15.5	18.5
18	30.0	20.0	24.5	27.5	18.5	22.0	25.5	19.5	22.5	22.5	14.0	18.0
19	29.5	18.5	23.0	29.5	17.0	23.0	26.0	19.5	22.5	21.0	12.5	17.0
20	29.0	18.0	22.5	30.5	22.0	25.5	24.0	18.0	20.5	21.5	12.5	17.0
21	31.0	19.5	23.0	30.0	22.5	25.5	24.0	16.5	20.0	23.0	13.5	18.0
22	29.5	17.0	23.0	30.5	20.5	25.0	23.5	16.0	20.0	23.0	14.5	18.5
23	29.0	21.5	25.0	30.0	19.5	24.0	25.5	16.5	21.0	23.0	14.5	18.5
24	29.5	21.5	25.5	32.0	18.5	24.0	25.0	16.5	20.5	23.0	15.0	19.0
25	30.0	21.5	25.0	32.0	17.5	24.0	26.5	16.0	21.0	22.0	14.5	18.0
26	30.5	21.5	25.5	27.0	16.5	22.0	25.5	17.5	21.0	21.0	11.5	16.0
27	30.5	22.0	26.0	28.5	20.5	24.0	23.5	18.0	20.5	20.5	13.5	16.5
28	31.0	21.5	25.5	27.5	20.0	23.5	26.5	17.0	21.5	20.5	12.0	16.0
29	31.0	21.5	26.0	30.0	20.0	24.5	28.0	17.0	22.0	19.5	13.0	16.0
30	32.5	22.0	26.5	30.5	21.5	25.5	28.0	17.5	22.5	18.5	12.5	15.0
31	---	---	---	30.0	20.0	25.0	28.0	17.0	22.5	---	---	---
MONTH	32.5	14.5	23.9	34.0	16.5	24.8	31.0	15.0	22.0	28.5	11.5	18.1

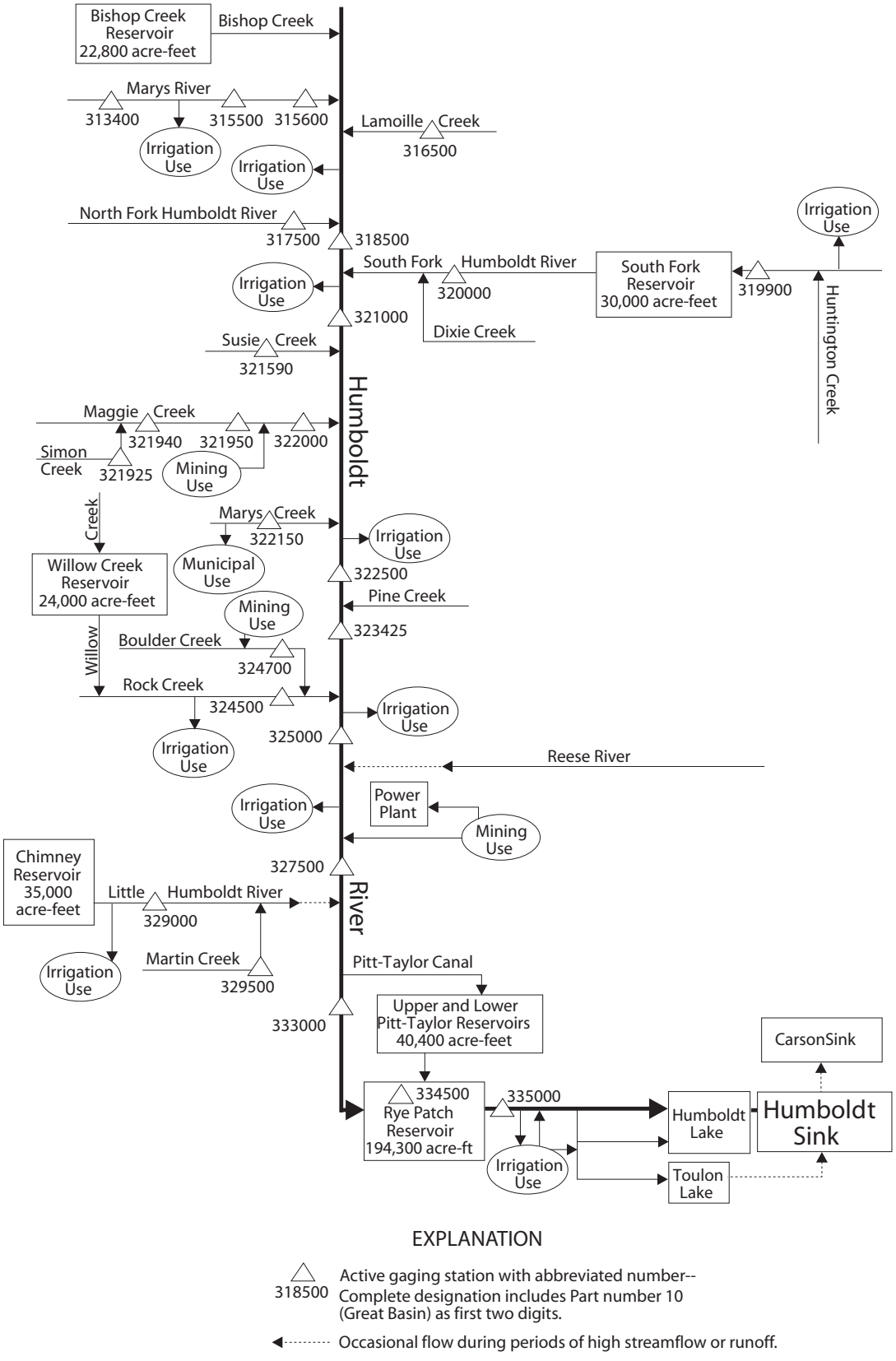


Figure 24. Schematic diagram of flow system and gaging stations in the Humboldt River basin.

HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV

LOCATION.--Lat 41°33'30", long 115°18'21", in SE $^1/_4$ NE $^1/_4$ sec.9, T.42 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 5 mi below Orange Bridge, and approximately 14 mi southeast of Charleston.

DRAINAGE AREA.--72 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 819 ft^3/s, May 20, 1993, gage height, 4.57 ft; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 14	2200	*428	*4.19	June 1	0200	311	3.86
May 20	0015	322	3.89				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.69	5.9	e3.9	e5.0	e4.4	11	124	189	270	26	0.27	0.00
2	0.84	5.1	e4.8	e5.0	e4.3	9.1	153	190	258	25	0.25	0.00
3	0.22	4.7	e5.7	e5.2	e4.2	8.7	165	199	203	23	0.21	0.00
4	0.48	4.7	e5.2	e5.5	e4.2	10	186	194	173	20	0.23	0.00
5	0.75	5.0	e5.1	e5.5	e4.3	11	230	199	159	20	0.25	0.00
6	0.70	5.1	e5.1	e5.5	e5.0	11	245	210	159	18	0.20	0.00
7	0.68	4.0	e6.4	e5.8	e4.3	11	220	223	157	16	0.13	0.00
8	0.79	3.6	e6.5	e5.4	e4.0	6.6	182	196	140	14	0.13	0.00
9	0.60	3.2	e6.5	e5.0	e4.0	9.0	159	179	122	12	0.14	0.00
10	0.52	3.7	e6.5	e4.9	e4.0	10	135	165	106	11	0.14	0.00
11	0.54	4.1	e6.5	e5.2	e4.0	9.0	126	152	95	8.9	0.11	0.00
12	0.50	4.7	e6.6	e5.6	e4.0	10	140	152	85	7.1	0.08	0.00
13	0.70	4.1	e6.7	e5.0	e4.0	9.4	172	164	80	6.1	0.07	0.00
14	0.77	3.9	e6.7	e5.1	e4.0	8.2	246	194	78	4.8	0.07	0.00
15	1.4	4.1	e6.5	e5.7	e3.9	7.6	317	210	80	4.2	0.05	0.00
16	2.2	4.2	e6.3	e5.2	e4.1	7.8	213	201	78	3.9	0.03	0.00
17	2.4	4.1	e6.1	e5.2	e5.3	7.5	178	210	75	4.2	0.02	0.00
18	2.2	3.8	e6.0	e5.6	e6.9	6.9	154	236	70	4.6	0.01	0.04
19	2.4	3.2	e6.0	e5.9	e8.5	8.7	140	273	66	5.1	0.00	0.14
20	2.8	3.9	e5.5	e5.3	e9.7	8.8	127	294	60	4.3	0.00	0.37
21	3.2	5.4	e5.4	e5.9	e11	12	118	243	58	4.3	0.00	0.60
22	3.4	11	e5.5	e6.1	e13	19	117	193	53	3.9	0.00	0.71
23	3.4	6.7	e5.6	e6.1	e16	23	127	161	49	3.0	0.00	0.86
24	3.0	3.9	e5.6	e5.7	e21	21	131	143	46	2.5	0.00	0.94
25	3.6	5.7	e5.6	e5.1	9.9	19	141	132	42	2.1	0.00	0.90
26	3.9	5.8	e5.7	e5.3	12	19	158	127	39	1.7	0.00	1.1
27	4.4	5.3	e5.6	e5.8	14	26	158	131	36	1.4	0.00	1.2
28	4.5	e2.9	e5.3	e5.9	12	37	150	147	35	1.1	0.00	1.4
29	4.7	e1.5	e5.0	e5.6	---	50	153	175	32	0.95	0.00	1.3
30	5.1	e3.9	e5.0	e5.1	---	67	164	216	29	0.66	0.00	1.4
31	5.7	---	e5.0	e4.4	---	92	---	268	---	0.46	0.00	---
TOTAL	67.08	137.2	177.9	167.6	206.0	566.3	5029	5966	2933	260.27	2.39	10.96
MEAN	2.164	4.573	5.739	5.406	7.357	18.27	167.6	192.5	97.77	8.396	0.077	0.365
MAX	5.7	11	6.7	6.1	21	92	317	294	270	26	0.27	1.4
MIN	0.22	1.5	3.9	4.4	3.9	6.6	117	127	29	0.46	0.00	0.00
AC-FT	133	272	353	332	409	1120	9980	11830	5820	516	4.7	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	3.820	6.503	7.172	10.06	15.07	53.79	114.9	191.6	115.3	17.00	1.526	1.633
MAX	7.65	11.0	12.7	28.6	51.3	139	229	345	233	52.1	5.66	4.62
(WY)	1999	1992	1996	1997	1996	1996	1996	1993	1995	1995	1993	1998
MIN	1.02	4.40	3.21	3.73	4.48	17.4	47.5	47.1	7.04	1.14	0.000	0.000
(WY)	1996	1996	1994	1994	2001	1994	1994	1992	1992	2001	2001	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	6657.10		15523.70			
ANNUAL MEAN	18.24		42.53		44.93	
HIGHEST ANNUAL MEAN					73.0	1996
LOWEST ANNUAL MEAN					15.8	1992
HIGHEST DAILY MEAN	130	May 1	317	Apr 15	579	May 14 1993
LOWEST DAILY MEAN	0.00	Jul 28	0.00	Aug 19	0.00	Aug 17 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 28	0.00	Aug 19	0.00	Aug 17 1994
MAXIMUM PEAK FLOW			428	Apr 14	819	May 20 1993
MAXIMUM PEAK STAGE			4.19	Apr 14	4.57	May 20 1993
ANNUAL RUNOFF (AC-FT)	13200		30790		32550	
10 PERCENT EXCEEDS	77		165		159	
50 PERCENT EXCEEDS	4.8		5.6		7.8	
90 PERCENT EXCEEDS	0.00		0.07		0.70	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1991 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1991 to current year.

INSTRUMENTATION.--Water temperature recorder since November 1991, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to periods of no flow (see WATER-DISCHARGE Records).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 32.0°C, August 12, 1992; minimum, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 27.5°C, July 11, 12; minimum, freezing point on many days during winter months.

WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.0	10.5	13.0	8.0	3.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
2	15.0	10.5	12.5	9.0	3.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
3	14.5	9.0	11.5	9.5	3.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
4	13.5	9.0	11.0	9.0	2.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
5	13.0	8.5	10.5	10.0	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
6	13.0	9.5	11.0	10.0	5.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.5	9.0	11.5	9.5	3.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
8	13.0	10.0	11.0	7.0	1.5	3.5	0.0	0.0	0.0	0.5	0.0	0.0
9	10.0	7.0	8.5	6.5	0.5	2.5	0.0	0.0	0.0	0.5	0.0	0.0
10	8.0	5.0	6.5	6.5	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11	8.5	6.5	7.5	6.5	1.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
12	7.0	4.5	5.5	7.5	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
13	11.0	5.0	7.5	6.5	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
14	10.5	6.0	8.0	7.0	2.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
15	12.0	5.5	8.5	7.0	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
16	12.5	6.5	9.5	7.0	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.5	7.5	9.0	6.0	2.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
18	11.0	4.0	7.5	5.5	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
19	13.0	4.5	8.0	4.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20	13.0	5.5	9.0	5.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	12.0	5.5	8.5	6.0	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
22	10.0	6.0	8.0	6.0	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
23	10.0	5.0	7.5	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24	9.0	3.5	5.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	10.0	2.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	10.0	3.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	9.0	3.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	9.0	4.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	10.5	5.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	9.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	7.5	5.0	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	16.0	2.5	8.5	10.0	0.0	3.2	0.5	0.0	0.0	0.5	0.0	0.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.5	0.0	0.0	10.0	1.0	5.0	8.5	2.0	5.5
2	0.0	0.0	0.0	0.5	0.0	0.0	10.0	2.0	5.0	11.5	4.0	7.0
3	0.0	0.0	0.0	0.5	0.0	0.0	10.0	1.5	5.0	10.0	4.0	7.0
4	0.0	0.0	0.0	1.0	0.0	0.0	10.5	2.0	5.5	12.0	3.0	7.5
5	0.0	0.0	0.0	2.5	0.0	1.0	10.0	2.5	5.5	11.5	4.0	7.5
6	0.0	0.0	0.0	3.5	0.0	1.5	10.5	3.0	6.0	12.5	4.5	8.0
7	0.0	0.0	0.0	6.5	0.0	2.5	9.5	2.5	5.5	7.5	3.0	5.5
8	0.0	0.0	0.0	2.0	0.0	0.5	9.0	2.5	5.5	10.5	1.0	5.0
9	0.0	0.0	0.0	2.5	0.0	0.5	6.0	3.0	4.5	8.5	2.5	5.5
10	0.0	0.0	0.0	4.0	0.0	1.5	9.0	3.5	5.5	7.0	3.0	5.0
11	0.0	0.0	0.0	6.0	0.0	3.0	9.0	3.0	5.5	12.0	3.0	7.0
12	0.0	0.0	0.0	5.5	2.0	3.5	11.0	3.5	7.0	13.0	3.0	8.0
13	0.0	0.0	0.0	6.5	0.5	3.0	11.0	3.5	6.5	13.0	4.0	8.5
14	0.0	0.0	0.0	5.5	0.0	2.0	10.5	4.5	7.0	13.5	5.5	9.0
15	0.0	0.0	0.0	4.5	0.0	1.5	5.0	2.5	4.0	9.5	3.5	7.0
16	0.0	0.0	0.0	3.0	0.0	1.0	5.5	2.0	3.5	13.5	5.0	9.0
17	0.0	0.0	0.0	3.0	0.0	1.0	7.5	1.5	4.0	13.5	4.0	9.0
18	0.0	0.0	0.0	3.5	0.0	1.5	5.0	1.5	3.5	12.5	5.5	9.0
19	0.0	0.0	0.0	7.0	0.0	2.5	5.5	1.5	3.5	13.5	5.0	9.0
20	0.0	0.0	0.0	9.5	0.0	4.0	8.5	2.0	5.0	8.5	6.0	7.0
21	0.0	0.0	0.0	9.0	1.0	4.5	8.5	1.5	5.0	6.5	4.0	5.0
22	0.5	0.0	0.0	8.5	1.0	4.5	12.5	3.0	7.5	9.5	3.0	6.0
23	0.5	0.0	0.0	4.0	1.5	2.5	12.0	3.5	7.5	8.0	2.5	5.5
24	1.0	0.0	0.5	8.5	1.0	4.0	11.0	1.5	6.5	12.5	3.0	7.5
25	1.0	0.0	0.0	7.0	1.5	4.0	12.0	3.5	7.5	12.0	4.5	8.5
26	0.0	0.0	0.0	10.5	0.0	4.5	7.5	3.5	5.5	12.5	5.5	9.5
27	0.5	0.0	0.0	10.0	1.5	5.5	7.5	4.0	5.5	13.5	6.5	10.0
28	0.5	0.0	0.0	9.0	1.0	5.0	11.0	3.5	6.5	15.0	7.0	10.5
29	---	---	---	9.0	1.5	4.5	10.5	3.5	7.0	15.5	7.0	11.0
30	---	---	---	9.5	1.0	5.0	9.0	4.0	6.5	15.5	6.5	11.0
31	---	---	---	10.0	1.0	4.5	---	---	---	15.0	7.0	10.5
MONTH	1.0	0.0	0.0	10.5	0.0	2.5	12.5	1.0	5.6	15.5	1.0	7.8
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.5	7.0	9.0	25.0	13.0	18.5	22.5	14.0	18.0	---	---	---
2	11.5	6.5	8.5	25.5	13.0	19.0	23.0	16.0	19.0	---	---	---
3	13.5	5.0	9.0	25.5	15.5	20.0	21.5	16.0	18.5	---	---	---
4	14.0	6.0	10.0	25.0	13.5	19.0	22.0	15.0	18.0	---	---	---
5	16.0	6.5	11.0	25.5	13.5	19.5	23.0	14.5	18.0	---	---	---
6	16.0	7.5	11.5	26.0	15.5	20.5	22.5	14.0	18.0	---	---	---
7	14.5	7.0	10.5	26.0	15.5	20.5	20.5	13.5	16.5	---	---	---
8	13.0	6.0	9.5	26.0	15.0	20.0	21.0	12.0	16.5	---	---	---
9	8.5	3.5	6.5	26.5	13.5	20.0	22.5	12.0	17.0	---	---	---
10	13.5	4.0	8.0	27.0	14.0	20.5	23.0	12.5	18.0	---	---	---
11	14.5	5.0	9.5	27.5	15.0	21.5	23.0	14.0	18.5	---	---	---
12	17.0	6.5	11.5	27.5	16.5	22.0	22.5	14.0	18.0	---	---	---
13	18.5	8.0	13.0	26.5	17.0	21.5	22.5	14.0	18.0	---	---	---
14	19.5	10.0	14.5	26.5	17.5	21.5	22.5	14.0	18.0	---	---	---
15	19.5	10.0	14.5	25.5	17.0	21.0	23.0	14.0	18.0	---	---	---
16	19.5	9.5	14.5	24.0	17.5	20.0	23.0	13.5	18.0	---	---	---
17	18.0	9.5	14.0	24.0	15.5	19.5	22.0	13.0	17.5	---	---	---
18	17.5	10.5	13.5	23.0	16.0	19.0	22.5	13.0	17.5	---	---	---
19	18.5	8.5	13.0	23.5	15.0	19.5	---	---	---	16.5	10.0	13.0
20	17.0	9.0	12.5	24.5	15.5	20.0	---	---	---	17.0	10.0	13.5
21	19.0	10.5	14.5	25.5	15.0	20.0	---	---	---	18.5	9.0	13.5
22	19.5	11.5	15.0	25.0	16.0	20.0	---	---	---	17.5	8.5	13.0
23	21.5	10.5	16.0	23.5	15.0	19.0	---	---	---	18.0	9.0	13.0
24	22.5	12.0	17.0	25.5	14.0	19.5	---	---	---	17.5	9.0	13.0
25	23.5	12.5	18.0	26.0	16.0	20.0	---	---	---	17.0	7.5	12.0
26	20.5	12.5	16.5	25.5	14.0	19.0	---	---	---	16.5	7.5	11.5
27	23.5	12.5	17.5	24.0	14.0	18.5	---	---	---	15.0	7.5	11.0
28	23.0	13.5	18.0	25.0	13.0	18.5	---	---	---	15.5	7.0	11.0
29	24.0	13.5	18.5	25.5	14.0	19.5	---	---	---	13.0	7.0	10.0
30	24.5	13.0	18.5	23.0	14.5	19.0	---	---	---	10.5	6.5	8.0
31	---	---	---	23.5	15.0	19.0	---	---	---	---	---	---
MONTH	24.5	3.5	13.1	27.5	13.0	19.8	---	---	---	---	---	---

HUMBOLDT RIVER BASIN

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE $^1/_4$ SE $^1/_4$ sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 1 mi upstream from Hot Springs Creek, 7 mi north of Cross Ranch, and 13 mi north of Deeth.

DRAINAGE AREA.--415 mi^2.

PERIOD OF RECORD.--October 1943 to September 1980, October 1981 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from river-profile map. Prior to November 3, 1950, at site 1.2 mi downstream at different datum. November 3, 1950, to September 30, 1967, water-stage recorder at datum 1.00 ft higher. October 1, 1967, to September 8, 1982, at site 200 ft downstream at datum 0.33 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft^3/s, February 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft^3/s on basis of slope-area measurement of peak flow; no flow for part of each day August 27-30, September 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 16	1945	258	3.90	June 3	0915	216	3.60
May 1	2330	*262	*3.93				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	e1.9	2.7	e2.9	8.8	e23	89	238	183	15	3.3	3.2
2	1.2	e1.9	2.8	e3.6	8.5	e23	111	254	202	13	3.2	3.6
3	1.1	e1.9	2.8	e4.8	8.5	e23	143	256	211	11	2.8	4.2
4	1.0	1.9	2.7	5.8	8.6	e22	165	256	197	9.9	2.5	4.1
5	1.1	1.7	2.9	6.2	8.8	e22	180	241	176	8.4	2.4	4.2
6	1.2	1.7	3.0	6.7	9.5	e21	195	231	158	7.7	2.4	5.6
7	1.2	1.9	2.8	6.6	8.5	e27	200	230	150	7.3	2.3	4.9
8	1.3	2.1	2.7	7.6	7.2	e44	210	236	145	6.4	1.8	4.6
9	1.3	2.2	2.6	9.4	7.3	e28	201	229	136	6.9	1.8	4.6
10	1.5	2.3	2.7	7.4	7.5	e23	195	215	126	7.0	2.2	4.4
11	1.6	2.5	2.7	8.3	7.2	e19	181	202	109	6.2	2.0	4.1
12	1.6	2.5	3.0	8.8	7.4	e28	174	189	87	5.7	1.9	4.4
13	1.7	2.5	3.0	7.5	7.5	e28	175	178	77	4.9	1.7	4.5
14	1.6	2.6	3.1	7.2	7.1	e27	190	177	69	5.3	1.7	4.6
15	1.6	2.7	3.0	9.4	7.5	e27	212	185	64	5.2	1.6	4.6
16	1.7	2.7	3.1	7.6	7.5	e23	246	195	61	4.5	1.4	4.9
17	1.8	2.7	3.1	8.8	8.0	e25	242	194	59	4.3	1.3	4.9
18	1.8	2.6	3.1	7.2	8.7	e21	214	196	54	4.1	1.2	4.5
19	1.9	2.8	3.2	7.4	9.5	20	193	204	45	4.3	1.1	4.1
20	2.0	2.9	3.3	8.3	11	20	173	216	47	4.3	1.1	4.0
21	2.1	3.0	2.9	7.8	12	25	154	239	50	4.5	1.4	3.9
22	2.0	3.2	3.0	7.7	15	30	138	241	45	4.0	1.5	4.2
23	2.0	2.7	3.0	8.5	18	39	127	220	40	3.7	1.8	4.4
24	2.0	2.8	3.1	8.8	21	45	124	194	36	3.8	2.0	4.3
25	e2.0	2.8	3.1	7.3	e21	45	124	171	32	3.7	2.4	4.0
26	e2.0	2.6	3.0	7.8	e22	42	134	153	28	3.7	2.5	4.0
27	e2.0	2.7	3.1	8.7	e22	39	158	139	26	3.6	2.6	3.8
28	e1.9	2.9	3.1	7.5	23	42	164	134	23	3.5	2.6	2.8
29	e1.9	3.1	3.2	8.4	---	50	155	137	21	3.5	2.4	3.2
30	e1.9	2.8	e3.0	e7.2	---	61	161	148	16	3.5	2.3	3.3
31	e1.9	---	e2.9	e7.6	---	75	---	164	---	3.3	2.7	---
TOTAL	51.2	74.6	91.7	228.8	318.6	987	5128	6262	2673	182.2	63.9	125.9
MEAN	1.652	2.487	2.958	7.381	11.38	31.84	170.9	202.0	89.10	5.877	2.061	4.197
MAX	2.1	3.2	3.3	9.4	23	75	246	256	211	15	3.3	5.6
MIN	1.0	1.7	2.6	2.9	7.1	19	89	134	16	3.3	1.1	2.8
AC-FT	102	148	182	454	632	1960	10170	12420	5300	361	127	250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	5.831	11.37	15.00	19.46	36.14	75.80	171.8	247.0	155.5	26.28	4.309	2.789
MAX	30.4	35.0	41.9	70.4	226	316	515	868	555	154	42.3	20.3
(WY)	1985	1985	1984	1971	1962	1986	1952	1984	1984	1984	1984	1984
MIN	0.94	2.03	2.96	5.78	7.05	16.8	40.0	43.2	3.50	1.11	0.49	0.38
(WY)	1956	1993	2002	1955	1993	1977	1955	1992	1992	1961	1948	1955

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1944 - 2002	
ANNUAL TOTAL	6549.2		16186.9			
ANNUAL MEAN	17.94		44.35		64.25	
HIGHEST ANNUAL MEAN					194	1984
LOWEST ANNUAL MEAN					16.1	1992
HIGHEST DAILY MEAN	119	May 17	256	May 3	2690	Feb 12 1962
LOWEST DAILY MEAN	1.0	Jul 29	1.0	Oct 4	0.20	Aug 20 1944
ANNUAL SEVEN-DAY MINIMUM	1.1	Jul 27	1.2	Oct 1	0.20	Aug 29 1948
MAXIMUM PEAK FLOW			262	May 1	4210	Feb 12 1962
MAXIMUM PEAK STAGE			3.93	May 1	7.63	Feb 12 1962
ANNUAL RUNOFF (AC-FT)	12990		32110		46550	
10 PERCENT EXCEEDS	60		184		200	
50 PERCENT EXCEEDS	3.1		6.9		17	
90 PERCENT EXCEEDS	1.2		1.9		1.6	

e Estimated

HUMBOLDT RIVER BASIN

10315600 MARYS RIVER BELOW TWIN BUTTES NEAR DEETH, NV

LOCATION.--Lat 41°09'16", long 115°16'13", in SW $^1/_4$ NW $^1/_4$ sec.25, T.38 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 6 mi north of Deeth.

DRAINAGE AREA.--516 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,410 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 592 ft^3/s, March 18, 1993, gage height, 7.62 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 336 ft^3/s, May 2, gage height, 6.28 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	e1.2	e2.5	e6.0	e20	75	226	151	27	0.00	0.00
2	0.00	0.00	e2.0	e2.8	e6.1	e19	86	321	174	24	0.00	0.00
3	0.00	0.00	e2.1	e3.3	e6.3	e19	102	293	191	22	0.00	0.00
4	0.00	0.00	e2.0	e4.2	e6.5	e19	122	284	196	18	0.00	0.00
5	0.00	0.00	e2.0	e4.7	e6.7	e18	137	271	178	16	0.00	0.00
6	0.00	0.00	e2.3	e5.2	e7.2	e18	153	242	155	13	0.00	0.00
7	0.00	0.00	e2.2	e5.8	e7.0	e24	162	229	141	12	0.00	0.00
8	0.00	0.00	e2.0	e5.9	e6.9	e37	169	232	134	7.7	0.00	0.00
9	0.00	0.00	e2.0	e5.5	e6.9	e25	176	238	130	6.0	0.00	0.00
10	0.00	0.00	e2.0	e5.4	e7.0	e20	172	215	125	5.1	0.00	0.00
11	0.00	0.00	e2.0	e5.4	e7.0	e17	164	196	116	3.5	0.00	0.00
12	0.00	0.00	e2.1	e6.0	e7.1	e24	153	183	100	2.3	0.00	0.00
13	0.00	0.00	e2.2	e5.8	e7.2	e24	147	169	87	1.3	0.00	0.00
14	0.00	0.00	e2.3	e5.3	e7.2	e23	154	160	80	0.75	0.00	0.00
15	0.00	0.00	e2.2	e6.1	e7.1	e22	179	161	74	2.3	0.00	0.00
16	0.00	0.00	e2.2	e5.6	e7.2	e20	207	167	70	1.5	0.00	0.00
17	0.00	0.00	e2.2	e5.8	e7.2	e21	257	180	66	0.41	0.00	0.00
18	0.00	0.00	e2.2	e6.0	e7.1	e18	229	179	64	0.13	0.00	0.00
19	0.00	0.00	e2.4	e6.0	e7.3	e17	196	184	59	0.06	0.00	0.00
20	0.00	0.00	e2.5	e6.5	e7.6	e19	169	193	55	0.02	0.00	0.00
21	0.00	0.00	e2.3	e6.3	e8.3	e25	147	226	59	0.00	0.00	0.00
22	0.00	0.00	e2.2	e6.2	e10	34	130	256	57	0.00	0.00	0.00
23	0.00	0.00	e2.2	e6.6	e14	46	117	244	53	0.00	0.00	0.00
24	0.00	0.00	e2.2	e7.0	e18	46	109	207	50	0.00	0.00	0.00
25	0.00	0.13	e2.3	e6.5	e20	45	109	176	46	0.00	0.00	0.00
26	0.00	e1.2	e2.3	e6.1	e20	41	114	152	43	0.00	0.00	0.00
27	0.00	e1.2	e2.4	e6.1	e20	40	134	135	41	0.00	0.00	0.00
28	0.00	e1.1	e2.3	e6.3	e20	41	148	126	39	0.00	0.00	0.00
29	0.00	e0.80	e2.4	e6.2	---	45	144	123	36	0.00	0.00	0.00
30	0.00	e0.60	e2.4	e6.2	---	54	140	125	32	0.00	0.00	0.00
31	0.00	---	e2.4	e6.0	---	66	---	134	---	0.00	0.00	---
TOTAL	0.00	5.03	67.5	173.3	268.9	907	4501	6227	2802	163.07	0.00	0.00
MEAN	0.000	0.168	2.177	5.590	9.604	29.26	150.0	200.9	93.40	5.260	0.000	0.000
MAX	0.00	1.2	2.5	7.0	20	66	257	321	196	27	0.00	0.00
MIN	0.00	0.00	1.2	2.5	6.0	17	75	123	32	0.00	0.00	0.00
AC-FT	0.00	10	134	344	533	1800	8930	12350	5560	323	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	1.218	5.884	8.786	13.36	21.35	74.24	130.2	200.1	132.2	20.23	0.663	0.000
MAX	5.38	18.4	22.7	39.2	36.3	171	228	342	303	67.8	2.38	0.000
(WY)	1999	1999	1999	1997	1996	1993	1993	1998	1998	1998	1997	1992
MIN	0.000	0.17	1.81	4.19	5.25	29.3	41.4	36.3	1.90	0.000	0.000	0.000
(WY)	1992	2002	1993	1993	1993	2002	1992	1992	1992	2001	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	5998.88		15114.80			
ANNUAL MEAN	16.44		41.41		50.73	
HIGHEST ANNUAL MEAN					85.9	1997
LOWEST ANNUAL MEAN					12.1	1992
HIGHEST DAILY MEAN	105	May 18	321	May 2	481	May 19 1996
LOWEST DAILY MEAN	0.00	Jun 26	0.00	Oct 1	0.00	Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 26	0.00	Oct 1	0.00	Oct 1 1991
MAXIMUM PEAK FLOW			336	May 2	592	Mar 18 1993
MAXIMUM PEAK STAGE			6.28	May 2	7.62	Mar 18 1993
ANNUAL RUNOFF (AC-FT)	11900		29980		36750	
10 PERCENT EXCEEDS	59		165		168	
50 PERCENT EXCEEDS	2.2		5.4		9.2	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1992 to current year.

INSTRUMENTATION.--Water temperature recorder since June 1992, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to periods of no flow or instrument malfunction (see Water-Discharge Records).

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 29.5°C, July 12-13, 2002; minimum recorded, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded during periods of flow, 29.5°C, July 12-13; minimum recorded, 4.5°C, April 19.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10315600 MARYS RIVER BELOW TWIN BUTTES NEAR DEETH, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	11.5	7.0	9.5	9.5	6.5	7.5
2	---	---	---	---	---	---	12.5	8.0	10.5	10.5	6.5	8.5
3	---	---	---	---	---	---	12.0	8.0	10.0	12.5	9.0	10.5
4	---	---	---	---	---	---	13.0	8.0	10.5	14.0	9.5	11.5
5	---	---	---	---	---	---	13.0	9.0	11.5	14.5	11.0	12.5
6	---	---	---	---	---	---	13.0	10.0	11.5	15.5	10.5	13.0
7	---	---	---	---	---	---	12.5	9.0	11.0	14.0	9.0	12.0
8	---	---	---	---	---	---	12.0	8.5	10.5	11.5	6.0	9.0
9	---	---	---	---	---	---	10.5	9.0	9.5	10.5	8.5	9.5
10	---	---	---	---	---	---	11.0	7.5	9.0	11.5	8.5	10.0
11	---	---	---	---	---	---	10.5	7.5	9.0	12.0	8.5	10.0
12	---	---	---	---	---	---	13.0	8.5	11.0	14.5	8.5	11.5
13	---	---	---	---	---	---	13.0	9.5	11.5	16.0	11.0	13.5
14	---	---	---	---	---	---	14.0	11.0	12.5	17.5	13.0	15.5
15	---	---	---	---	---	---	12.0	7.0	9.5	16.0	13.0	15.0
16	---	---	---	---	---	---	8.0	5.5	7.0	17.5	13.0	15.0
17	---	---	---	---	---	---	7.5	5.0	6.5	18.0	13.0	15.5
18	---	---	---	---	---	---	7.0	5.0	6.0	18.5	14.5	16.5
19	---	---	---	---	---	---	6.5	4.5	5.5	18.0	14.5	16.5
20	---	---	---	---	---	---	7.5	5.0	6.0	16.0	12.5	14.5
21	---	---	---	---	---	---	9.5	5.0	7.0	12.5	8.5	9.5
22	---	---	---	---	---	---	12.5	7.5	10.0	10.0	7.0	8.5
23	---	---	---	---	---	---	13.5	9.5	11.5	10.5	7.0	9.0
24	---	---	---	---	---	---	12.5	8.5	10.5	14.0	8.0	11.0
25	---	---	---	---	---	---	14.5	9.5	12.0	15.5	11.0	13.5
26	---	---	---	---	---	---	13.0	10.0	11.5	17.5	12.5	15.0
27	---	---	---	---	---	---	10.5	8.5	9.5	18.5	14.0	16.5
28	---	---	---	9.5	5.0	7.5	12.5	8.5	10.5	19.5	15.0	17.5
29	---	---	---	9.5	6.0	7.5	13.5	9.5	11.5	20.5	16.0	18.5
30	---	---	---	10.5	5.0	7.5	13.0	9.5	11.5	21.5	17.0	19.0
31	---	---	---	11.0	6.0	8.5	---	---	---	22.5	18.0	20.5
MONTH	---	---	---	---	---	---	14.5	4.5	9.8	22.5	6.0	13.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.0	17.0	19.0	25.0	18.0	21.5	---	---	---	---	---	---
2	17.5	15.5	16.5	25.5	18.0	21.5	---	---	---	---	---	---
3	17.5	14.0	16.0	25.0	19.0	22.0	---	---	---	---	---	---
4	18.0	14.5	16.0	25.0	18.0	21.5	---	---	---	---	---	---
5	19.5	14.5	17.0	25.5	18.0	22.0	---	---	---	---	---	---
6	21.0	16.5	18.5	26.5	19.0	23.0	---	---	---	---	---	---
7	20.5	16.5	18.5	26.0	20.0	23.5	---	---	---	---	---	---
8	18.0	14.5	16.5	26.0	20.0	23.0	---	---	---	---	---	---
9	14.5	11.5	12.5	27.0	19.0	23.0	---	---	---	---	---	---
10	12.5	10.0	11.5	28.0	20.5	24.0	---	---	---	---	---	---
11	15.5	10.0	13.0	29.0	21.0	25.0	---	---	---	---	---	---
12	18.5	12.5	15.5	29.5	21.5	25.5	---	---	---	---	---	---
13	20.5	15.0	17.5	29.5	22.0	25.5	---	---	---	---	---	---
14	21.5	16.0	19.0	28.0	22.5	25.0	---	---	---	---	---	---
15	22.0	17.0	20.0	27.0	21.5	24.5	---	---	---	---	---	---
16	22.0	17.0	19.5	25.0	21.5	23.0	---	---	---	---	---	---
17	21.0	16.5	19.0	26.5	19.5	22.5	---	---	---	---	---	---
18	21.0	17.0	18.5	23.5	20.5	21.5	---	---	---	---	---	---
19	21.0	15.5	18.0	25.5	18.5	22.0	---	---	---	---	---	---
20	20.0	15.5	17.5	24.5	19.5	22.0	---	---	---	---	---	---
21	20.0	15.5	18.0	---	---	---	---	---	---	---	---	---
22	21.5	16.5	19.0	---	---	---	---	---	---	---	---	---
23	22.5	17.0	20.0	---	---	---	---	---	---	---	---	---
24	24.0	18.0	21.0	---	---	---	---	---	---	---	---	---
25	24.5	19.0	21.5	---	---	---	---	---	---	---	---	---
26	23.5	19.5	21.5	---	---	---	---	---	---	---	---	---
27	24.5	19.0	21.5	---	---	---	---	---	---	---	---	---
28	24.0	19.5	21.5	---	---	---	---	---	---	---	---	---
29	24.0	19.0	21.5	---	---	---	---	---	---	---	---	---
30	25.0	18.5	21.5	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	25.0	10.0	18.2	---	---	---	---	---	---	---	---	---

HUMBOLDT RIVER BASIN

10316500 - LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'27", long 115°28'34", in NE $^1/_4$ NE $^1/_4$ sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, at mouth of canyon, on right bank, 100 ft upstream from McDermott ditch diversion, and 3 mi south of Lamoille.

DRAINAGE AREA.--24.9 mi^2.

PERIOD OF RECORD.--May 1915 to May 1923, October 1943 to current year.

REVISED RECORDS.--WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above NGVD of 1929, from topographic map. Prior to September 30, 1943, nonrecording gages at various sites nearby at different datums. October 1, 1943 to January 16, 1975, water-stage recorder at site 600 ft downstream at datum 4.28 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft^3/s, June 3, 1986, gage height, 6.08 ft, maximum gage height, 6.11 ft, June 3, 1995; minimum daily, 1.5 ft^3/s, January 12, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 310 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 31	1945	478	4.63	No other peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.9	e2.4	e2.4	e2.8	e3.5	11	83	365	100	10	3.2
2	2.6	2.7	e3.0	e2.4	e2.7	e3.5	13	83	349	89	9.8	3.1
3	2.6	2.6	e3.0	e2.5	e2.6	e3.5	14	89	286	82	9.3	3.0
4	2.6	2.5	e2.8	e2.3	e2.5	e3.5	16	95	272	75	8.7	2.9
5	2.7	2.5	e2.6	e2.1	e2.4	e3.5	18	110	293	69	8.3	2.9
6	2.7	2.6	e2.8	e2.3	e2.6	e4.0	19	124	319	62	8.0	4.0
7	2.4	3.1	e2.8	e2.5	e2.8	e4.5	20	131	307	56	7.6	4.2
8	2.5	2.6	e2.8	e2.4	e2.7	e5.0	22	128	264	51	7.2	3.7
9	2.5	2.5	e2.8	e2.3	e3.0	e5.5	24	130	217	45	6.9	3.6
10	2.6	2.5	e2.6	e2.3	e2.9	e6.0	25	131	174	42	6.5	3.5
11	2.7	2.5	e2.8	e2.2	e3.0	6.7	22	130	157	41	6.1	3.4
12	2.8	2.5	e2.8	e2.4	e2.9	7.6	25	140	163	39	5.9	3.3
13	2.8	2.6	e3.2	e2.3	e3.1	6.9	28	160	178	36	5.7	3.2
14	2.7	2.5	e3.0	e2.2	e3.0	7.7	44	182	191	34	5.2	3.1
15	2.6	2.5	e2.8	e2.2	e3.0	e7.3	62	194	203	33	5.0	3.0
16	2.5	2.4	e2.9	e2.1	e3.0	e7.1	45	203	204	32	4.8	3.8
17	2.4	2.5	e2.8	e2.1	e3.0	e6.9	41	239	188	30	4.5	3.4
18	2.4	2.4	e2.9	e2.1	e3.0	e6.7	36	254	187	29	4.5	3.7
19	2.5	2.3	e2.8	e2.1	e3.1	e6.5	33	232	173	27	4.3	3.5
20	2.5	2.3	e3.2	e2.3	e3.4	6.6	31	220	170	24	4.0	3.4
21	2.5	2.5	e3.0	e2.9	e3.3	6.7	28	195	166	22	4.1	3.2
22	2.6	5.4	e2.8	e2.9	e3.3	7.0	30	167	162	20	4.3	3.2
23	2.7	3.4	e2.6	e2.8	e3.3	7.8	35	155	147	18	4.8	3.2
24	2.6	e3.0	e2.5	e2.8	e3.4	7.5	40	148	142	17	4.6	3.1
25	2.5	e2.7	e2.4	e3.0	e3.4	7.2	46	145	141	16	4.3	3.1
26	2.5	e2.4	e2.3	e3.1	e3.2	7.3	65	157	129	15	3.9	3.1
27	2.5	e2.3	e2.4	e3.2	e3.3	7.6	69	185	121	14	3.8	3.1
28	2.5	e2.4	e2.9	e3.1	e3.5	8.1	69	220	113	13	3.7	3.1
29	2.4	e2.8	e2.8	e3.0	---	8.4	75	256	109	12	3.6	3.1
30	3.0	e2.5	e2.7	e2.9	---	9.0	81	305	106	11	3.4	3.2
31	3.3	---	e2.5	e2.8	---	9.6	---	354	---	11	3.3	---
TOTAL	80.9	80.4	85.7	78.0	84.2	198.7	1087	5345	5996	1165	176.1	99.3
MEAN	2.610	2.680	2.765	2.516	3.007	6.410	36.23	172.4	199.9	37.58	5.681	3.310
MAX	3.3	5.4	3.2	3.2	3.5	9.6	81	354	365	100	10	4.2
MIN	2.4	2.3	2.3	2.1	2.4	3.5	11	83	106	11	3.3	2.9
AC-FT	160	159	170	155	167	394	2160	10600	11890	2310	349	197

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

MEAN	7.467	6.379	5.517	5.139	5.324	7.932	26.51	142.6	215.3	85.07	17.35	8.028
MAX	49.1	29.4	17.5	12.9	12.4	20.0	71.4	303	396	203	65.1	42.4
(WY)	1983	1983	1983	1997	1971	1989	1989	1997	1997	1975	1984	1982
MIN	2.61	2.68	2.60	2.00	2.18	3.06	5.37	48.2	44.9	14.4	4.39	3.07
(WY)	2002	2002	1988	1917	2001	1955	1955	1953	1992	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915 - 2002	
ANNUAL TOTAL	8714.3		14476.3			
ANNUAL MEAN	23.87		39.66		44.77	
HIGHEST ANNUAL MEAN					77.7	1997
LOWEST ANNUAL MEAN					20.5	1959
HIGHEST DAILY MEAN	441	May 16	365	Jun 1	693	May 30 1983
LOWEST DAILY MEAN	1.6	Jan 17	2.1	Jan 5	1.5	Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	1.7	Feb 11	2.2	Jan 13	1.7	Feb 11 2001
MAXIMUM PEAK FLOW			478	May 31	838	Jun 3 1986
MAXIMUM PEAK STAGE			4.63	May 31	6.11	Jun 3 1995
ANNUAL RUNOFF (AC-FT)	17280		28710		32430	
10 PERCENT EXCEEDS	75		158		156	
50 PERCENT EXCEEDS	3.3		3.6		8.4	
90 PERCENT EXCEEDS	2.3		2.5		3.5	

e Estimated

HUMBOLDT RIVER BASIN

10317500 NORTH FORK HUMBOLDT RIVER AT DEVILS GATE, NEAR HALLECK, NV

LOCATION.--Lat 41°10'45", long 115°29'34", in SW $^1/_4$ SE $^1/_4$ sec.13, T.38 N., R.57 E., Elko County, Hydrologic Unit 16040102, on right bank, 25 ft downstream from Devils Gate, 16 mi north of Halleck, and 26 mi upstream of mouth.

DRAINAGE AREA.--830 mi^2.

PERIOD OF RECORD.--October 1913 to December 1921, October 1943 to September 1982, June 2002 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,370 ft above NGVD of 1929, from topographic map. Prior to reestablishment in June 2002, gage at several sites and different datums within .1 mi upstream from present location. See WDR NV-82-1 for history of changes prior to June 2002.

REMARKS.--Records good. Many diversions for irrigation of 16,600 acres above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s, February 11, 1962, gage height, 16.12 ft, datum then in use; minimum daily, 2.0 ft^3/s, August 14-16, 19, 20, 22, 1948 and July 28, 29, August 17, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge for the period July thru September, about 300 ft^3/s, June 2 or 3, gage height, 14.10 ft; minimum daily, 3.4 ft^3/s, August 16 and 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e280	8.3	4.2	6.5
2	---	---	---	---	---	---	---	---	e290	7.7	4.5	6.3
3	---	---	---	---	---	---	---	---	e280	7.0	4.5	6.0
4	---	---	---	---	---	---	---	---	e220	6.8	4.3	5.8
5	---	---	---	---	---	---	---	---	146	6.5	4.3	5.9
6	---	---	---	---	---	---	---	---	110	6.4	4.0	12
7	---	---	---	---	---	---	---	---	86	6.2	4.0	18
8	---	---	---	---	---	---	---	---	65	6.1	4.1	9.9
9	---	---	---	---	---	---	---	---	57	5.8	4.1	9.0
10	---	---	---	---	---	---	---	---	62	5.5	4.1	8.8
11	---	---	---	---	---	---	---	---	67	5.2	4.1	9.3
12	---	---	---	---	---	---	---	---	63	5.9	4.0	9.1
13	---	---	---	---	---	---	---	---	53	5.7	3.9	8.9
14	---	---	---	---	---	---	---	---	45	5.4	3.8	8.6
15	---	---	---	---	---	---	---	---	37	5.0	3.7	8.2
16	---	---	---	---	---	---	---	---	31	5.2	3.4	9.4
17	---	---	---	---	---	---	---	---	25	5.4	3.4	10
18	---	---	---	---	---	---	---	---	18	5.8	3.5	11
19	---	---	---	---	---	---	---	---	13	5.7	3.6	10
20	---	---	---	---	---	---	---	---	12	5.2	5.5	9.5
21	---	---	---	---	---	---	---	---	12	5.3	6.1	9.2
22	---	---	---	---	---	---	---	---	12	5.6	6.3	9.0
23	---	---	---	---	---	---	---	---	14	5.3	6.6	9.0
24	---	---	---	---	---	---	---	---	15	5.2	6.8	8.7
25	---	---	---	---	---	---	---	---	14	5.3	6.9	8.6
26	---	---	---	---	---	---	---	---	13	5.0	6.8	e8.4
27	---	---	---	---	---	---	---	---	13	4.7	6.7	8.8
28	---	---	---	---	---	---	---	---	12	4.5	6.8	9.1
29	---	---	---	---	---	---	---	---	10	4.3	6.9	9.3
30	---	---	---	---	---	---	---	---	9.3	4.3	6.7	9.5
31	---	---	---	---	---	---	---	---	---	4.1	6.6	---
TOTAL	---	---	---	---	---	---	---	---	2084.3	174.4	154.2	271.8
MEAN	---	---	---	---	---	---	---	---	69.5	5.63	4.97	9.06
MAX	---	---	---	---	---	---	---	---	290	8.3	6.9	18
MIN	---	---	---	---	---	---	---	---	9.3	4.1	3.4	5.8
AC-FT	---	---	---	---	---	---	---	---	4130	346	306	539

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	12.4	17.4	20.3	38.0	67.7	137	226	198	135	30.0	9.39	8.57
MAX	21.8	31.1	58.0	241	434	513	1046	732	390	136	36.4	24.6
(WY)	1973	1971	1965	1971	1962	1972	1952	1952	1975	1975	1965	1982
MIN	6.90	7.56	7.39	8.90	11.4	18.5	25.6	9.60	6.06	3.38	2.75	3.50
(WY)	1949	1962	1977	1977	1955	1981	1968	1968	1966	1959	1948	1919

SUMMARY STATISTICS WATER YEARS 1914 - 2002

ANNUAL MEAN	74.9	
HIGHEST ANNUAL MEAN	198	1952
LOWEST ANNUAL MEAN	13.2	1955
HIGHEST DAILY MEAN	3850	Feb 12 1962
LOWEST DAILY MEAN	2.0	Aug 14 1948
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 14 1948
ANNUAL RUNOFF (AC-FT)	54250	
10 PERCENT EXCEEDS	226	
50 PERCENT EXCEEDS	20	
90 PERCENT EXCEEDS	6.5	

e Estimated

HUMBOLDT RIVER BASIN

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'10", long 115°37'25", in SE $^1/_4$ NE $^1/_4$ sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank, 1 mi southwest of Ryndon, 1.5 mi upstream from Jackson Creek, 5 mi downstream from confluence of North Fork Humboldt River, 10 mi northeast of Elko, and at mi 381.71 above Derby Road bridge.

DRAINAGE AREA.--2,779 mi^2.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area. WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft above sea level. June 1895 to October 1902, nonrecording gage at site 11 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of 95,800 acres above station. No flow some years during summer months. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft^3/s, February 19, 1986, gage height, 7.64 ft; maximum gage height 12.30 ft, February 13, 1962; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft^3/s, June 4, gage height, 5.90 ft; minimum daily, 0.93 ft^3/s, August 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.9	e12	26	e21	87	198	256	524	68	1.9	0.94
2	1.5	2.0	17	30	e21	80	238	417	850	56	1.9	0.97
3	1.4	2.0	16	e27	e20	61	272	673	826	50	1.8	0.99
4	1.3	2.1	e13	e24	e20	60	265	625	1050	40	1.7	0.99
5	1.4	2.1	e11	e25	e20	59	271	522	849	33	1.4	1.1
6	1.4	2.2	14	32	e20	70	271	421	702	29	1.4	1.9
7	1.5	2.0	15	37	e19	82	262	357	631	26	1.3	1.9
8	1.6	2.0	e10	42	e18	99	271	301	606	23	1.4	1.8
9	1.5	2.0	e10	e37	e18	97	264	293	569	20	1.3	1.8
10	1.6	2.0	e13	e33	e18	87	241	291	533	18	1.3	1.8
11	1.7	2.0	e16	e31	e18	79	231	299	467	16	1.2	1.7
12	1.6	2.0	e15	e32	16	90	247	298	425	13	1.2	1.7
13	1.7	2.3	e17	e30	31	166	256	279	345	12	1.3	1.7
14	1.6	2.0	e15	e29	12	174	233	246	304	10	1.2	1.7
15	1.6	5.9	e14	e30	23	118	238	207	260	10	1.0	1.7
16	1.6	9.6	e14	e29	15	93	281	182	225	8.5	0.98	2.1
17	1.7	8.9	e15	e26	14	83	326	174	214	7.6	0.94	2.0
18	1.7	9.3	e17	e25	14	78	365	193	204	6.9	0.97	1.9
19	1.7	9.1	e17	e23	16	69	406	232	186	6.2	0.98	1.9
20	1.7	9.3	e13	e22	21	66	451	283	184	5.8	0.94	3.1
21	1.7	10	e16	e24	28	81	438	344	193	5.6	1.0	4.3
22	1.8	14	e10	e23	40	105	342	462	183	5.2	1.0	4.4
23	1.8	13	e12	e22	48	119	288	643	161	4.5	1.1	4.4
24	1.7	13	e9.0	e22	59	138	199	621	145	4.1	1.2	4.5
25	1.7	13	e7.0	e23	80	145	156	500	140	3.7	1.0	4.3
26	1.7	12	e8.0	e24	92	141	136	411	123	3.0	0.93	3.1
27	1.8	13	e10	23	77	128	133	343	113	2.8	0.97	2.5
28	1.8	e10	e13	23	75	138	248	274	114	2.5	0.96	2.2
29	1.9	e5.0	e15	e23	---	154	276	298	101	2.3	0.95	2.0
30	2.3	e10	19	e22	---	157	247	313	80	2.2	0.96	1.8
31	2.0	---	23	e22	---	165	---	329	---	2.0	0.96	---
TOTAL	51.6	193.7	426.0	841	874	3269	8050	11087	11307	496.9	37.14	67.19
MEAN	1.665	6.457	13.74	27.13	31.21	105.5	268.3	357.6	376.9	16.03	1.198	2.240
MAX	2.3	14	23	42	92	174	451	673	1050	68	1.9	4.5
MIN	1.3	1.9	7.0	22	12	59	133	174	80	2.0	0.93	0.94
AC-FT	102	384	845	1670	1730	6480	15970	21990	22430	986	74	133

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2002, BY WATER YEAR (WY)

MEAN	25.92	50.66	64.00	96.20	193.8	363.1	518.9	667.0	793.0	196.9	25.17	11.20
MAX	211	330	358	389	1295	1708	2583	3592	2831	1142	319	107
(WY)	1983	1900	1984	1980	1986	1983	1984	1984	1984	1984	1984	1899
MIN	1.02	1.32	4.30	3.65	8.54	71.4	65.3	46.1	9.60	2.35	0.50	0.63
(WY)	1955	1955	1960	1960	1955	1961	1992	1959	1992	1954	1954	1955

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1895 - 2002	
ANNUAL TOTAL	19879.7		36700.53			
ANNUAL MEAN	54.46		100.5		250.1	
HIGHEST ANNUAL MEAN					1101	1984
LOWEST ANNUAL MEAN					35.6	1961
HIGHEST DAILY MEAN	741	May 18	1050	Jun 4	6530	Mar 4 1983
LOWEST DAILY MEAN	1.1	Sep 20	0.93	Aug 26	0.00	Aug 6 1900
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 19	0.95	Aug 26	0.00	Aug 6 1900
MAXIMUM PEAK FLOW			1220	Jun 4	7200	Feb 19 1986
MAXIMUM PEAK STAGE			5.90	Jun 4	12.30	Feb 13 1962
ANNUAL RUNOFF (AC-FT)	39430		72800		181200	
10 PERCENT EXCEEDS	160		300		728	
50 PERCENT EXCEEDS	13		18		73	
90 PERCENT EXCEEDS	1.3		1.5		2.1	

e Estimated

10319900 SOUTH FORK HUMBOLDT RIVER ABOVE TENMILE CREEK NEAR ELKO, NV

LOCATION.--Lat 40°37'42", long 115°43'44", in NE $^1/_4$ SW $^1/_4$ sec.25, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on right bank, 5 mi above South Fork Dam, and 19.5 mi southeast of Elko.

DRAINAGE AREA.--898 mi^2.

PERIOD OF RECORD.--February 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,280 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

REVISED RECORD.--NV-92-1:1991.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s, June 3, 1995, gage height, 5.82 ft; minimum daily, 2.2 ft^3/s, September 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft^3/s, June 2, gage height, 3.63 ft; minimum daily, 1.6 ft^3/s, August 18-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	8.2	10	20	15	32	51	320	847	75	2.9	2.7
2	2.7	8.7	13	20	14	33	59	421	994	58	2.8	2.7
3	2.6	8.7	14	22	14	29	69	367	891	58	2.8	2.7
4	2.5	8.0	14	21	14	29	85	300	742	55	2.6	2.7
5	2.5	7.9	12	18	14	30	106	274	664	57	2.5	2.7
6	2.7	7.8	15	20	14	31	118	251	669	50	2.3	3.2
7	2.8	8.3	16	22	15	33	118	246	664	44	2.3	3.9
8	3.6	9.1	e13	24	17	31	121	222	601	43	2.2	5.0
9	3.2	8.7	13	25	e15	30	125	214	487	46	2.2	5.1
10	3.4	8.8	8.9	22	e14	31	128	213	394	40	2.4	5.9
11	3.6	9.1	11	17	e16	32	126	196	340	37	2.3	5.3
12	3.9	8.3	10	19	e13	37	128	182	303	36	2.5	6.3
13	4.0	10	10	18	e11	38	138	179	272	35	2.3	6.4
14	3.9	11	11	16	e16	32	136	184	261	31	2.1	6.0
15	4.1	9.9	7.8	19	e13	28	187	204	273	28	2.0	6.9
16	4.0	9.3	11	15	24	29	180	217	266	28	1.8	8.8
17	3.7	9.3	12	18	27	28	171	255	253	e25	1.7	9.0
18	3.9	9.2	11	e16	29	27	153	331	249	22	1.6	9.1
19	4.1	9.0	13	e14	31	26	138	409	240	23	1.6	8.7
20	4.3	9.2	13	13	41	27	134	445	220	20	1.6	8.0
21	4.3	9.6	13	15	e34	29	125	471	211	18	1.6	7.6
22	4.0	15	11	e12	e32	30	116	535	193	14	1.7	7.4
23	4.2	14	12	e13	e31	34	110	528	171	8.6	1.8	6.3
24	4.6	13	11	13	e30	39	111	433	157	9.0	1.9	5.3
25	4.6	13	11	14	e26	41	112	355	142	9.9	1.9	5.3
26	5.0	12	7.7	16	38	38	136	306	128	9.1	1.9	5.7
27	5.8	8.6	12	18	35	36	236	304	112	7.3	2.3	4.8
28	6.2	5.3	13	e15	34	40	267	359	100	6.6	2.6	6.6
29	6.2	4.4	13	e13	---	41	254	450	90	6.1	2.7	5.1
30	6.4	6.6	14	15	---	43	240	558	84	3.7	2.7	5.9
31	7.5	---	17	16	---	47	---	725	---	3.1	2.8	---
TOTAL	126.9	280.0	373.4	539	627	1031	4178	10454	11018	906.4	68.4	171.1
MEAN	4.094	9.333	12.05	17.39	22.39	33.26	139.3	337.2	367.3	29.24	2.206	5.703
MAX	7.5	15	17	25	41	47	267	725	994	75	2.9	9.1
MIN	2.5	4.4	7.7	12	11	26	51	179	84	3.1	1.6	2.7
AC-FT	252	555	741	1070	1240	2040	8290	20740	21850	1800	136	339

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	11.78	18.31	17.32	29.06	49.46	95.90	149.1	392.2	451.2	119.9	15.27	7.693
MAX	34.0	44.2	31.1	73.2	148	189	266	689	1096	453	48.0	19.3
(WY)	1999	1999	1997	1997	1996	1996	1996	1998	1998	1998	1995	1998
MIN	4.09	9.33	9.26	10.0	18.6	21.5	29.2	119	43.1	8.54	2.21	2.78
(WY)	2002	2002	1990	1990	1994	1991	1991	1991	1992	1992	2002	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	17366.8		29773.2			
ANNUAL MEAN	47.58		81.57		114.7	
HIGHEST ANNUAL MEAN					239	1998
LOWEST ANNUAL MEAN					36.1	1992
HIGHEST DAILY MEAN	636	May 16	994	Jun 2	2010	Jun 3 1995
LOWEST DAILY MEAN	2.3	Sep 17	1.6	Aug 18	1.6	Aug 18 2002
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 24	1.7	Aug 16	1.7	Aug 16 2002
MAXIMUM PEAK FLOW			1090	Jun 2	2710	Jun 3 1995
MAXIMUM PEAK STAGE			3.63	Jun 2	5.82	Jun 3 1995
ANNUAL RUNOFF (AC-FT)	34450		59060		83080	
10 PERCENT EXCEEDS	136		257		313	
50 PERCENT EXCEEDS	15		15		27	
90 PERCENT EXCEEDS	3.2		2.7		6.1	

e Estimated

HUMBOLDT RIVER BASIN

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV

LOCATION.--Lat 40°41'06", long 115°48'45", in NW $^1/_4$ SW $^1/_4$ sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank, 1.5 mi upstream from Dixie Creek, and 10.5 mi south of Elko.

DRAINAGE AREA.--1,150 mi^2, approximately.

PERIOD OF RECORD.--October 1948 to September 1982, July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by South Fork Reservoir, approximately 2.0 mi upstream, since December, 1987. Records not adjusted for storage. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,100 ft^3/s, January 12, 1979, gage height, 6.80 ft; maximum discharge after dam, 1,600 ft^3/s, June 6, 1995, gage height, 5.14 ft; minimum daily prior to dam, 0.10 ft^3/s, September 9, 1959; minimum daily after dam, 1.7 ft^3/s, September 15, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 635 ft^3/s, June 9-11, 13, gage height, 3.97 ft; minimum daily, 3.6 ft^3/s, February 18-19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.9	7.9	7.8	e4.2	12	49	235	437	72	8.9	4.9
2	8.3	8.0	8.5	7.6	e4.2	11	52	295	440	71	8.8	4.9
3	8.3	7.7	8.7	7.8	e4.2	11	64	342	521	66	8.6	4.8
4	8.4	7.6	8.0	7.4	e4.2	11	100	368	621	53	8.3	4.9
5	8.7	7.9	8.1	7.6	e4.2	11	100	367	621	52	8.1	5.1
6	8.8	7.8	9.3	7.2	e4.2	14	100	369	616	52	8.0	6.3
7	8.6	7.9	9.2	7.5	e4.2	15	99	294	621	52	7.6	6.7
8	8.3	8.0	8.0	7.5	e4.2	16	113	224	624	53	7.5	6.7
9	8.8	8.0	7.9	7.6	e4.2	15	127	224	627	53	7.4	6.3
10	8.6	7.8	7.6	7.2	e3.8	15	127	214	629	53	7.2	6.2
11	8.5	7.9	8.3	7.3	e3.7	16	124	199	625	36	7.1	6.1
12	8.3	8.0	8.0	7.3	e3.7	16	123	199	621	17	6.9	6.0
13	8.4	8.2	7.7	7.0	e3.7	17	123	200	621	17	6.7	5.7
14	8.3	8.1	8.4	7.5	e3.7	16	123	201	571	17	6.7	5.3
15	8.2	8.0	7.7	7.1	e3.7	16	125	192	519	17	6.8	5.1
16	8.0	8.0	8.7	7.3	e3.7	16	114	174	520	17	6.7	6.2
17	8.0	8.0	8.4	6.8	e3.7	15	116	175	394	17	6.4	6.2
18	8.1	8.0	8.1	6.7	e3.6	15	130	176	263	17	6.7	6.4
19	8.0	7.9	8.1	6.8	e3.6	17	125	209	236	17	7.1	6.8
20	7.9	8.3	8.1	6.9	e4.3	29	120	360	231	17	7.0	7.0
21	7.9	8.6	8.0	7.0	e4.9	41	117	419	205	17	7.1	7.1
22	7.9	11	7.4	6.8	e4.7	41	118	426	186	16	7.2	7.1
23	8.0	9.2	7.6	7.3	e5.4	41	117	478	188	16	7.2	7.1
24	7.7	8.8	7.4	7.5	e5.2	40	116	519	132	17	7.7	7.1
25	8.2	8.9	6.9	6.6	e5.6	40	117	519	73	16	8.4	7.8
26	8.3	8.8	8.1	6.5	e9.6	40	122	466	75	17	8.7	7.1
27	8.3	8.2	8.2	7.0	13	39	127	425	75	17	8.8	6.7
28	8.2	7.4	8.2	6.8	13	39	159	425	74	16	9.4	6.9
29	8.1	8.7	8.4	4.9	---	44	199	421	73	14	9.8	7.2
30	8.4	8.3	8.2	e4.4	---	49	206	424	73	9.6	8.3	7.5
31	8.3	---	7.6	e4.2	---	49	---	432	---	9.0	4.7	---
TOTAL	256.1	246.9	250.7	214.9	140.4	767	3552	9971	11512	930.6	235.8	189.2
MEAN	8.261	8.230	8.087	6.932	5.014	24.74	118.4	321.6	383.7	30.02	7.606	6.307
MAX	8.8	11	9.3	7.8	13	49	206	519	629	72	9.8	7.8
MIN	7.7	7.4	6.9	4.2	3.6	11	49	174	73	9.0	4.7	4.8
AC-FT	508	490	497	426	278	1520	7050	19780	22830	1850	468	375

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

MEAN	13.10	14.86	19.87	27.86	45.42	104.4	143.0	348.4	438.8	123.2	26.16	12.32
MAX	26.5	39.2	47.7	102	138	244	311	661	1068	518	103	26.8
(WY)	1999	1999	1999	1997	1996	1996	1996	1998	1998	1998	1997	1997
MIN	4.55	7.67	8.09	6.93	5.01	24.4	36.8	105	27.8	8.60	5.97	3.12
(WY)	1991	1993	2002	2002	2002	1991	1991	1991	1992	1992	1992	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1988 - 2002	
ANNUAL TOTAL	18042.5		28266.6			
ANNUAL MEAN	49.43		77.44		110.0	
HIGHEST ANNUAL MEAN					235	1998
LOWEST ANNUAL MEAN					36.1	1992
HIGHEST DAILY MEAN	588	May 17	629	Jun 10	1500	Jun 6 1995
LOWEST DAILY MEAN	5.6	Sep 15	3.6	Feb 18	1.7	Sep 15 1988
ANNUAL SEVEN-DAY MINIMUM	6.3	Sep 11	3.7	Feb 13	2.6	Aug 26 1988
MAXIMUM PEAK FLOW			635	Jun 9	1600	Jun 6 1995
MAXIMUM PEAK STAGE			3.97	Jun 9	5.14	Jun 6 1995
ANNUAL RUNOFF (AC-FT)	35790		56070		79690	
10 PERCENT EXCEEDS	143		247		303	
50 PERCENT EXCEEDS	13		8.4		25	
90 PERCENT EXCEEDS	7.9		5.7		8.1	

e Estimated

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV

LOCATION.--Lat 40°43'40", long 116°00'30", in SE $^1/_4$ SE $^1/_4$ sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank, 1.0 mi downstream from Tonka Creek, 5 mi upstream from Susie Creek, 5.5 mi east of Carlin, 15 mi southwest of Elko, and at mi 335.73 above Derby Road bridge.

DRAINAGE AREA.--4,340 mi^2.

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft above NGVD of 1929 (levels by Nevada State Highway Department).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,250 ft^3/s, May 17, 1984, gage height, 10.04 ft, maximum gage height, 10.21 ft, February 14, 1962; minimum daily, 0.20 ft^3/s, August 13, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 28, 1910, estimated to have reached 15,000 ft^3/s, based on reported stage and comparison with Humboldt River at Palisade. See schematic diagram of Humboldt River Basin.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft^3/s, June 6 and 7, gage height, 4.54 ft; minimum daily, 3.4 ft^3/s, August 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	17	26	e28	e15	e63	240	467	632	151	12	11
2	15	18	22	e29	e13	e69	256	532	702	142	13	9.6
3	15	19	26	e31	e13	e76	275	644	814	133	13	9.0
4	14	19	24	e22	e15	89	318	791	1040	118	13	8.8
5	15	19	23	e20	e18	89	331	817	1200	105	13	8.8
6	15	19	27	e26	e22	89	336	778	1280	93	13	10
7	15	19	30	e27	e26	103	338	708	1220	84	13	11
8	16	19	31	e28	e26	106	334	555	1160	75	13	9.6
9	16	19	e28	e29	e25	107	360	527	1110	69	13	9.1
10	16	20	e26	e31	e24	114	361	499	1100	66	14	8.9
11	17	20	27	e32	e23	126	356	476	1070	62	14	9.0
12	17	20	34	e32	e22	122	347	474	1020	49	14	9.0
13	17	21	31	e31	e20	125	349	471	970	34	9.5	9.1
14	17	21	e26	e34	e27	160	349	463	877	28	4.2	8.9
15	18	21	e24	e29	e24	177	345	450	748	26	3.4	8.3
16	18	21	e28	e28	e23	153	343	416	712	23	4.7	9.4
17	18	21	e28	e27	e24	140	336	393	644	20	4.0	9.9
18	17	21	e29	e26	e27	130	356	373	464	20	6.0	9.6
19	17	21	e29	e25	e29	123	387	360	405	20	11	8.9
20	18	21	e26	e23	e36	121	411	446	388	19	14	9.3
21	18	22	e28	e24	e54	134	417	577	375	20	15	9.3
22	18	29	e27	e22	e50	150	407	614	344	17	14	9.3
23	18	31	e27	e19	e46	176	370	687	328	12	15	9.3
24	18	30	e26	e22	e45	187	328	851	322	10	13	9.3
25	18	29	e26	e20	e47	192	297	907	233	8.8	12	9.3
26	18	26	e26	e18	e48	198	274	859	210	7.7	12	9.5
27	19	25	e25	e17	e54	200	287	756	191	6.7	11	9.8
28	19	23	e25	e14	e60	201	296	693	178	14	11	9.8
29	18	22	e26	e10	---	205	384	638	173	18	12	10
30	17	27	e26	e12	---	226	438	629	164	18	12	10
31	17	---	e27	e14	---	233	---	623	---	15	12	---
TOTAL	526	660	834	750	856	4384	10226	18474	20074	1484.2	353.8	282.8
MEAN	16.97	22.00	26.90	24.19	30.57	141.4	340.9	595.9	669.1	47.88	11.41	9.427
MAX	19	31	34	34	60	233	438	907	1280	151	15	11
MIN	14	17	22	10	13	63	240	360	164	6.7	3.4	8.3
AC-FT	1040	1310	1650	1490	1700	8700	20280	36640	39820	2940	702	561

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

MEAN	44.04	73.98	95.98	138.3	263.7	507.9	709.3	985.8	1238	347.3	52.64	26.20
MAX	331	361	625	452	1324	2190	3684	5728	4875	1908	492	154
(WY)	1983	1984	1984	1984	1986	1983	1984	1984	1984	1984	1984	1984
MIN	1.80	5.48	7.11	10.0	22.3	107	108	78.8	41.0	6.96	0.92	0.52
(WY)	1955	1955	1955	1955	1955	1955	1959	1959	1992	1966	1959	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1944 - 2002	
ANNUAL TOTAL	37006.4		58904.8			
ANNUAL MEAN	101.4		161.4		372.9	
HIGHEST ANNUAL MEAN					1730	1984
LOWEST ANNUAL MEAN					63.6	1959
HIGHEST DAILY MEAN	726	May 20	1280	Jun 6	8090	May 18 1984
LOWEST DAILY MEAN	2.8	Aug 20	3.4	Aug 15	0.20	Aug 13 1959
ANNUAL SEVEN-DAY MINIMUM	5.5	Aug 15	6.1	Aug 13	0.30	Aug 11 1959
MAXIMUM PEAK FLOW			1350	Jun 6	8250	May 17 1984
MAXIMUM PEAK STAGE			4.54	Jun 6	10.21	Feb 14 1962
ANNUAL RUNOFF (AC-FT)	73400		116800		270100	
10 PERCENT EXCEEDS	263		510		1070	
50 PERCENT EXCEEDS	31		26		115	
90 PERCENT EXCEEDS	14		10		14	

e Estimated

HUMBOLDT RIVER BASIN

10321590 SUSIE CREEK AT CARLIN, NV

LOCATION.--Lat 40°43'34", long 116°04'37", in SE $^1/_4$ SW $^1/_4$ sec.24, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, on left bank, approximately 200 ft above westbound Interstate 80 bridge, and 1 mi north of Carlin.

DRAINAGE AREA.--194 mi^2.

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,910 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561 ft^3/s, March 16, 1997, gage height, 6.56 ft; no flow many days, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge 2,470 ft^3/s, February 11, 1962, computed from culvert computations and floodmarks. Flood of February - March 1910 may have been higher but discharge is unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 325 ft^3/s, March 30, gage height, 4.27 ft, no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	e0.10	e1.7	e2.5	e3.1	7.8	147	11	1.8	0.00	0.00	0.00
2	0.00	e0.20	e2.4	e2.4	e3.5	6.7	152	19	1.9	0.00	0.00	0.00
3	0.00	e0.20	e2.7	e2.7	e3.4	6.5	105	13	1.7	0.00	0.00	0.00
4	0.00	e0.21	e2.4	e2.5	e3.4	6.1	71	11	1.3	0.00	0.00	0.00
5	0.00	e0.21	e2.2	e2.6	e3.9	6.3	49	9.7	1.1	0.00	0.00	0.00
6	0.00	0.22	e2.8	e2.8	e4.3	6.7	38	9.5	0.95	0.00	0.00	0.00
7	0.00	0.28	e2.6	e3.2	e5.7	7.8	28	9.2	1.0	0.00	0.00	0.00
8	0.00	0.26	e2.2	e3.2	e6.5	7.6	23	9.2	1.4	0.00	0.00	0.00
9	0.00	0.32	e2.5	e3.2	e8.0	6.9	19	9.1	1.7	0.00	0.00	0.00
10	0.00	0.34	e2.3	e2.8	e10	6.4	17	8.9	1.7	0.00	0.00	0.00
11	0.00	0.35	e2.1	e3.2	e11	6.2	15	8.8	1.7	0.00	0.00	0.00
12	0.00	0.48	e2.0	e3.5	e12	6.8	13	8.0	1.6	0.00	0.00	0.00
13	0.00	0.49	e2.2	e3.2	e10	20	12	5.4	1.3	0.00	0.00	0.00
14	0.00	0.43	e2.5	e3.1	e14	12	11	4.6	0.99	0.00	0.00	0.00
15	0.00	0.42	e2.7	e2.9	e12	9.8	13	4.3	0.86	0.00	0.00	0.00
16	0.00	0.42	e2.5	e2.8	e15	8.1	13	3.9	0.61	0.00	0.00	0.00
17	0.00	0.44	e2.7	e2.7	e21	7.8	12	3.6	0.35	0.00	0.00	0.00
18	0.00	0.50	e3.1	e2.6	e29	6.8	12	3.5	0.23	0.00	0.00	0.00
19	0.00	0.99	e3.7	e3.0	e28	5.5	12	3.4	0.11	0.00	0.00	0.00
20	0.00	2.1	e4.7	e2.6	e56	5.4	12	3.1	0.00	0.00	0.00	0.00
21	0.00	2.5	e4.3	e3.0	36	11	9.9	4.4	0.00	0.00	0.00	0.00
22	0.00	5.8	e3.9	e2.6	24	24	8.4	4.7	0.01	0.00	0.00	0.00
23	0.00	5.0	e3.7	e2.7	18	74	7.4	4.4	0.15	0.00	0.00	0.00
24	0.00	4.2	e3.3	e2.6	14	42	6.5	3.8	0.10	0.00	0.00	0.00
25	0.00	4.5	e3.0	e3.2	11	26	6.0	3.4	0.00	0.00	0.00	0.00
26	0.00	3.5	e2.7	e3.7	9.2	27	6.7	3.0	0.00	0.00	0.00	0.00
27	0.00	e3.0	e2.3	e4.0	10	51	13	2.7	0.00	0.00	0.00	0.00
28	0.00	e2.7	e1.9	e3.8	8.6	132	13	2.3	0.00	0.00	0.00	0.00
29	0.00	e2.2	e1.6	e3.4	---	126	10	2.0	0.00	0.00	0.00	0.00
30	0.00	e1.6	e2.3	e3.2	---	176	9.3	1.8	0.00	0.00	0.00	0.00
31	0.00	---	e2.6	e2.9	---	166	---	1.5	---	0.00	0.00	---
TOTAL	0.00	43.96	83.6	92.6	390.6	1012.2	864.2	192.2	22.56	0.00	0.00	0.00
MEAN	0.000	1.465	2.697	2.987	13.95	32.65	28.81	6.200	0.752	0.000	0.000	0.000
MAX	0.00	5.8	4.7	4.0	56	176	152	19	1.9	0.00	0.00	0.00
MIN	0.00	0.10	1.6	2.4	3.1	5.4	6.0	1.5	0.00	0.00	0.00	0.00
AC-FT	0.00	87	166	184	775	2010	1710	381	45	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	1.141	2.219	3.574	8.239	8.957	42.06	20.10	10.72	3.011	0.257	0.049	0.235
MAX	3.79	4.25	14.5	52.8	19.6	148	55.5	33.0	9.91	1.15	0.37	1.62
(WY)	1999	1998	1997	1997	1995	1997	1996	1998	1998	1997	1997	1998
MIN	0.000	1.23	0.22	0.18	0.18	5.97	3.01	0.34	0.000	0.000	0.000	0.000
(WY)	1995	1995	1993	1993	1993	1994	1994	1992	2001	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	741.53		2701.92			
ANNUAL MEAN	2.032		7.403		8.516	
HIGHEST ANNUAL MEAN					22.1	1997
LOWEST ANNUAL MEAN					1.80	1994
HIGHEST DAILY MEAN	46	Mar 9	176	Mar 30	424	Mar 17 1997
LOWEST DAILY MEAN	0.00	Jan 17	0.00	Oct 1	0.00	May 23 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	May 28	0.00	Oct 1	0.00	May 23 1992
MAXIMUM PEAK FLOW			325	Mar 30	561	Mar 16 1997
MAXIMUM PEAK STAGE			4.27	Mar 30	6.56	Mar 16 1997
ANNUAL RUNOFF (AC-FT)	1470		5360		6170	
10 PERCENT EXCEEDS	4.8		13		18	
50 PERCENT EXCEEDS	0.42		2.2		2.1	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

HUMBOLDT RIVER BASIN

10321925 SIMON CREEK NEAR HIGHWAY 766 NEAR CARLIN, NV

LOCATION.--Lat 40°50'35", long 116°13'24", in NW $^1/_4$ NE $^1/_4$ sec.22, T.34 S., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, above culvert on Highway 766, 11.1 mi northwest of Carlin.

DRAINAGE AREA--46.0 mi^2.

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water-stage recorder. Elevation at gage is 5,150 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 237 ft^3/s, March 8, 1997, gage height, 3.73, from rating extension above 5.0 ft^3/s but may have been higher January 2, 1997 at gage height, 5.55 ft, backwater from debris on culvert; maximum gage height, 6.41 ft, January 17, 1998, ice jam; minimum daily, 0.10 ft^3/s, August 16, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft^3/s, February 20, gage height, 3.97 ft; minimum daily, 0.18 ft^3/s, August 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.37	e0.39	0.40	0.51	1.1	2.0	0.62	0.78	0.56	0.41	0.25	0.29
2	0.35	e0.39	0.47	0.48	0.72	1.8	0.64	0.67	0.57	0.39	0.25	0.29
3	0.36	e0.39	0.48	0.54	0.52	1.7	0.61	0.61	0.56	0.38	0.25	0.29
4	0.36	e0.39	0.46	0.48	0.62	1.7	0.61	0.61	0.55	0.38	0.25	0.29
5	0.35	e0.39	0.44	0.42	0.71	2.4	0.61	0.61	0.55	0.37	0.24	0.30
6	0.35	e0.40	0.55	0.42	0.66	3.0	0.64	0.61	0.54	0.36	0.23	0.34
7	0.35	e0.40	0.50	0.42	0.94	4.0	0.63	0.61	0.53	0.37	0.22	0.34
8	0.35	e0.40	0.45	0.44	0.88	1.9	0.61	0.61	0.53	0.36	0.22	0.30
9	0.36	e0.40	0.47	0.46	0.77	0.87	0.62	0.61	0.53	0.37	0.19	0.23
10	e0.35	e0.40	0.43	0.45	0.84	0.66	0.61	0.66	0.53	0.36	0.20	0.23
11	e0.35	e0.40	0.42	0.42	0.56	1.1	0.61	0.65	0.53	0.35	0.21	0.22
12	e0.35	e0.40	0.42	0.41	0.57	2.3	0.62	0.61	0.53	0.34	0.20	0.23
13	e0.36	e0.40	0.45	0.38	0.56	1.2	0.61	0.61	0.53	0.34	0.19	0.22
14	e0.36	e0.40	0.53	0.37	0.57	0.71	0.60	0.61	0.53	0.34	0.21	0.24
15	e0.36	0.40	0.50	0.35	0.49	0.68	0.63	0.61	0.53	0.33	0.21	0.25
16	e0.36	0.40	0.49	0.33	0.48	0.67	0.67	0.61	0.53	0.33	0.21	0.27
17	e0.37	0.39	0.48	0.30	0.55	0.73	0.68	0.59	0.53	0.32	0.21	0.24
18	e0.37	0.39	0.49	0.32	0.55	0.73	0.84	0.58	0.53	0.33	0.20	0.24
19	e0.37	0.38	0.50	0.36	0.69	0.72	0.93	0.58	0.53	0.32	0.18	0.26
20	e0.37	0.39	0.50	0.50	28	0.65	0.71	0.58	0.53	0.31	0.19	0.28
21	e0.38	0.51	0.50	0.49	10	0.65	0.67	0.72	0.54	0.30	0.19	0.30
22	e0.38	0.70	0.50	0.45	8.8	0.67	0.67	0.62	0.54	0.30	0.20	0.27
23	e0.38	0.40	0.50	0.46	9.0	0.79	0.69	0.61	0.53	0.28	0.21	0.26
24	e0.38	0.40	0.45	0.64	7.7	0.90	0.63	0.59	0.53	0.27	0.20	0.25
25	e0.38	0.41	0.44	0.70	3.7	0.83	0.66	0.59	0.53	0.25	0.21	0.26
26	e0.38	0.40	0.46	0.62	3.0	0.83	0.63	0.59	0.53	0.26	0.22	0.25
27	e0.38	0.39	0.47	0.72	2.4	0.80	0.68	0.57	0.49	0.26	0.24	0.27
28	e0.39	0.38	0.47	0.73	2.6	0.67	0.66	0.57	0.46	0.26	0.25	0.27
29	e0.39	0.39	0.47	0.76	---	0.72	0.62	0.57	0.44	0.26	0.25	0.26
30	e0.39	0.40	0.49	0.75	---	0.68	0.61	0.55	0.43	0.25	0.26	0.25
31	e0.39	---	0.54	0.93	---	0.61	---	0.54	---	0.24	0.28	---
TOTAL	11.39	12.28	14.72	15.61	87.98	37.67	19.62	18.93	15.77	9.99	6.82	7.99
MEAN	0.367	0.409	0.475	0.504	3.142	1.215	0.654	0.611	0.526	0.322	0.220	0.266
MAX	0.39	0.70	0.55	0.93	28	4.0	0.93	0.78	0.57	0.41	0.28	0.34
MIN	0.35	0.38	0.40	0.30	0.48	0.61	0.60	0.54	0.43	0.24	0.18	0.22
AC-FT	23	24	29	31	175	75	39	38	31	20	14	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

MEAN	0.531	0.603	0.827	1.587	1.771	2.797	1.590	1.457	0.838	0.436	0.334	0.410
MAX	0.99	0.80	2.00	3.47	3.14	9.20	3.89	4.24	1.73	0.90	0.61	0.82
(WY)	1999	2000	1997	1998	2002	1997	1998	1998	1998	1998	1998	1998
MIN	0.33	0.41	0.47	0.43	0.47	1.17	0.65	0.45	0.31	0.21	0.14	0.27
(WY)	2000	2002	2002	2001	2001	2000	2002	2001	2001	2001	2001	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	173.84		258.77			
ANNUAL MEAN	0.476		0.709		0.909	
HIGHEST ANNUAL MEAN					1.84	1998
LOWEST ANNUAL MEAN					0.48	2001
HIGHEST DAILY MEAN	3.2	Mar 13	28	Feb 20	38	Mar 8 1997
LOWEST DAILY MEAN	0.10	Aug 16	0.18	Aug 19	0.10	Aug 16 2001
ANNUAL SEVEN-DAY MINIMUM	0.11	Aug 11	0.20	Aug 18	0.11	Aug 11 2001
MAXIMUM PEAK FLOW			93	Feb 20	237	Mar 8 1997
MAXIMUM PEAK STAGE			3.97	Feb 20	6.41	Jan 17 1998
ANNUAL RUNOFF (AC-FT)	345		513		659	
10 PERCENT EXCEEDS	0.65		0.75		1.6	
50 PERCENT EXCEEDS	0.39		0.47		0.60	
90 PERCENT EXCEEDS	0.17		0.25		0.27	

e Estimated

HUMBOLDT RIVER BASIN

10321940 MAGGIE CREEK ABOVE MAGGIE CREEK CANYON NEAR CARLIN, NV

LOCATION.--Lat 40°49'30", long 116°13'21", in SE $^1/_4$ NE $^1/_4$ sec.22, T.34 S., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, approximately 10.0 mi northwest of Carlin.

DRAINAGE AREA--332 mi^2.

PERIOD OF RECORD.--January 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,125 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor . See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 559 ft^3/s March 22, 1997, gage height, 5.02 ft; minimum daily, 0.14 ft^3/s August 8, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 152 ft^3/s, February 20, gage height, 3.79 ft; minimum daily, 0.36 ft^3/s, July 27-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.6	4.8	5.3	4.0	9.3	29	35	12	1.9	0.43	1.3
2	1.1	2.5	5.3	5.2	4.0	9.8	36	37	15	1.7	0.47	1.1
3	1.1	2.8	6.1	5.7	3.8	9.5	46	35	21	1.6	0.48	1.1
4	1.1	2.8	5.2	5.3	3.8	8.9	51	36	19	1.5	0.44	1.4
5	1.2	3.3	4.8	5.2	3.8	8.5	54	35	16	1.4	0.38	1.6
6	1.3	3.3	5.9	5.3	3.8	9.9	60	35	14	1.2	0.40	1.9
7	1.4	3.3	6.3	5.6	4.2	14	62	36	12	1.1	0.39	1.8
8	1.4	3.1	4.6	5.5	4.4	15	57	37	11	0.93	0.44	1.8
9	1.4	3.2	4.4	5.3	3.6	12	54	38	11	0.97	0.60	1.7
10	1.5	3.4	4.0	4.9	3.6	9.8	49	40	11	0.87	0.59	1.5
11	1.5	3.7	4.2	4.6	3.5	10	43	42	11	0.83	0.54	1.5
12	1.7	4.1	4.1	4.9	3.5	13	39	35	11	0.80	0.47	1.4
13	1.6	4.3	4.3	4.6	3.4	16	38	30	9.7	0.72	0.45	1.2
14	1.6	4.4	6.0	4.5	3.6	13	43	27	8.8	0.74	0.48	1.3
15	1.7	4.0	5.4	4.6	3.5	11	58	25	8.0	0.84	0.69	1.3
16	1.7	3.8	5.1	4.2	4.0	10	60	25	7.2	0.92	0.66	1.9
17	1.7	3.9	4.7	4.1	4.8	10	53	23	6.3	0.90	0.71	1.6
18	1.4	4.0	4.8	4.4	5.6	9.8	51	22	5.6	1.0	0.74	1.2
19	1.5	3.9	4.6	3.9	6.6	9.1	42	22	5.4	1.1	0.82	1.6
20	1.6	4.2	4.6	4.1	55	8.3	37	21	5.3	0.97	0.66	1.4
21	1.6	4.9	4.5	4.6	25	9.4	28	26	5.7	0.90	0.88	1.5
22	1.7	10	4.2	4.4	21	10	24	30	5.8	0.76	0.86	1.5
23	1.7	6.2	4.3	3.9	22	12	21	e25	5.2	0.60	1.0	1.8
24	1.6	5.1	3.8	4.0	20	14	18	e20	4.7	0.57	1.0	1.9
25	1.5	5.4	3.8	4.3	15	14	18	16	4.0	0.49	1.1	2.0
26	1.7	4.8	3.8	4.2	11	12	19	14	3.9	0.49	1.4	0.94
27	1.8	4.1	4.3	4.8	10	11	27	13	3.8	0.36	1.5	1.6
28	1.9	3.8	4.3	4.3	9.9	11	27	13	2.7	0.36	1.5	1.6
29	1.9	4.6	4.4	3.7	---	13	26	14	2.6	0.48	1.4	1.4
30	2.2	5.2	4.7	3.9	---	15	27	13	2.3	0.46	1.3	1.7
31	2.7	---	5.2	3.8	---	20	---	12	---	0.42	1.3	---
TOTAL	48.9	124.7	146.5	143.1	266.4	358.3	1197	832	261.0	27.88	24.08	45.54
MEAN	1.577	4.157	4.726	4.616	9.514	11.56	39.90	26.84	8.700	0.899	0.777	1.518
MAX	2.7	10	6.3	5.7	55	20	62	42	21	1.9	1.5	2.0
MIN	1.1	2.5	3.8	3.7	3.4	8.3	18	12	2.3	0.36	0.38	0.94
AC-FT	97	247	291	284	528	711	2370	1650	518	55	48	90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

MEAN	5.654	6.979	6.948	11.10	16.59	55.55	69.11	77.62	28.62	5.186	2.864	3.345
MAX	7.73	9.19	9.24	25.1	36.1	214	159	223	89.2	14.2	6.51	5.84
(WY)	1999	1999	1999	1998	1997	1997	1997	1998	1998	1998	1998	1998
MIN	1.58	4.16	4.73	4.62	6.13	7.95	12.1	10.9	1.67	0.59	0.43	0.96
(WY)	2002	2002	2002	2002	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	1721.52		3475.40			
ANNUAL MEAN	4.716		9.522		19.03	
HIGHEST ANNUAL MEAN					49.3	1998
LOWEST ANNUAL MEAN					5.13	2001
HIGHEST DAILY MEAN	20	Apr 29	62	Apr 7	505	Mar 22 1997
LOWEST DAILY MEAN	0.14	Aug 8	0.36	Jul 27	0.14	Aug 8 2001
ANNUAL SEVEN-DAY MINIMUM	0.21	Aug 4	0.43	Jul 27	0.21	Aug 4 2001
MAXIMUM PEAK FLOW			152	Feb 20	559	Mar 22 1997
MAXIMUM PEAK STAGE			3.79	Feb 20	5.02	Mar 22 1997
ANNUAL RUNOFF (AC-FT)	3410		6890		13790	
10 PERCENT EXCEEDS	10		27		42	
50 PERCENT EXCEEDS	4.2		4.3		7.5	
90 PERCENT EXCEEDS	0.53		0.87		1.1	

e Estimated

HUMBOLDT RIVER BASIN

10321950 MAGGIE CREEK AT MAGGIE CREEK CANYON NEAR CARLIN, NV

LOCATION.--Lat 40°48'12", long 116°11'57", in NE $^1/_4$ SE $^1/_4$ sec.26, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, approximately 8.0 mi northwest of Carlin.

DRAINAGE AREA.--334 mi^2.

PERIOD OF RECORD.--September 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,085 ft above NGVD of 1929, from topographic map. Prior to June 2, 1992, at datum 1.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 591 ft^3/s, March 27, 1993, gage height, 4.58 ft, maximum gage height, 4.67 ft, March 22, 1997; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft^3/s, February 20, gage height, 2.94 ft; no flow, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	e4.0	24	31	7.9	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	e4.0	31	32	9.4	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	e3.8	39	31	13	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	e3.7	43	31	11	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	e3.6	46	29	9.3	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	e4.0	50	28	8.1	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	e4.4	52	29	7.0	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	e5.0	51	30	6.5	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	e4.8	50	30	6.4	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	e4.7	48	31	6.3	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	e5.5	43	33	6.2	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.14	e6.0	40	28	5.7	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.09	7.7	39	24	4.9	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.41	7.1	42	21	4.0	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	e0.65	6.5	52	19	3.3	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	e0.90	5.5	55	18	2.5	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	e1.2	5.4	52	18	1.9	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	e1.8	6.7	50	17	1.5	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	e1.9	5.4	46	16	1.5	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	30	4.3	39	16	1.4	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	63	4.9	30	23	1.5	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	e7.0	5.9	24	24	1.6	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	e5.0	7.3	20	23	1.3	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	e4.5	9.0	17	20	1.1	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	e4.5	8.9	17	16	0.92	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	e4.3	7.8	18	14	0.86	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	e4.3	7.5	26	12	0.82	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	e4.3	8.5	26	10	0.71	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	9.5	24	9.0	0.58	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	11	25	8.1	0.20	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	16	---	7.4	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	133.99	198.4	1119	678.5	127.39	0.00	0.00	0.00
MEAN	0.000	0.000	0.000	0.000	4.785	6.400	37.30	21.89	4.246	0.000	0.000	0.000
MAX	0.00	0.00	0.00	0.00	63	16	55	33	13	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	3.6	17	7.4	0.20	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	266	394	2220	1350	253	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	3.177	4.306	4.974	9.798	11.88	52.97	59.76	53.67	17.18	2.641	1.098	1.443
MAX	8.09	9.16	10.3	44.6	32.0	200	171	180	76.0	11.2	3.81	4.48
(WY)	1990	1990	1999	1997	1997	1997	1996	1998	1998	1998	1998	1998
MIN	0.000	0.000	0.000	0.000	0.63	5.38	7.04	2.47	0.039	0.000	0.000	0.000
(WY)	1993	2001	2002	2002	1993	2001	1991	1992	2001	2001	1991	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	623.70		2257.28			
ANNUAL MEAN	1.709		6.184		18.60	
HIGHEST ANNUAL MEAN					48.5	1997
LOWEST ANNUAL MEAN					1.71	2001
HIGHEST DAILY MEAN	16	Apr 21	63	Feb 21	520	Mar 27 1993
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 14 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 9	0.00	Oct 1	0.00	Jul 23 1991
MAXIMUM PEAK FLOW			122	Feb 20	591	Mar 27 1993
MAXIMUM PEAK STAGE			2.94	Feb 20	4.67	Mar 22 1997
ANNUAL RUNOFF (AC-FT)	1240		4480		13480	
10 PERCENT EXCEEDS	6.6		25		40	
50 PERCENT EXCEEDS	0.00		0.00		5.4	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

HUMBOLDT RIVER BASIN

10322000 MAGGIE CREEK AT CARLIN, NV

LOCATION.--Lat 40°42'59", long 116°05'32", in NW $^1/_4$ SE $^1/_4$ sec.26, T.33 N., R.52 E., Elko county, Hydrologic Unit 16040101, on right bank, approximately 0.5 mi above confluence with the Humboldt River, and 0.5 mi east of Carlin.

DRAINAGE AREA.--396 mi^2.

PERIOD OF RECORD.--July 1913 to December 1921, April to May 1922, April 1923 to September 1924, April 1992 to current year.

REVISED RECORDS.--WDR NV-93-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above sea level, from topographic map. Prior to April 1992, at several sites in immediate vicinity at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flows influenced by mine de-watering into creek 6.0 mi upstream since April 1994. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft^3/s, May 7, 1922, gage height, 4.3 ft, (site and datum then in use); maximum gage height, 5.88 ft, March 27, 1993, (present datum); no flow some days during summer months, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge 2,440 ft^3/s, February 12, 1962, computed from culvert computations and floodmarks. Flood of February-March 1910 may have been higher but discharge is unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 93 ft^3/s, February 20, gage height, 2.54 ft; minimum daily, 0.33 ft^3/s, August 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.59	5.5	7.1	6.3	7.3	9.4	27	43	e7.5	0.98	0.60	1.5
2	0.63	4.6	7.0	6.2	7.4	9.5	21	45	e8.0	0.84	0.59	1.5
3	0.64	4.4	7.2	6.3	7.3	9.2	26	43	e9.8	0.75	0.58	1.8
4	0.64	4.7	7.3	6.5	8.2	9.4	30	43	e13	0.72	0.52	2.8
5	0.64	5.9	7.5	6.8	8.4	9.3	34	42	e12	0.72	0.45	3.4
6	0.67	5.5	7.5	6.5	8.0	9.5	37	41	e10	0.71	0.44	5.0
7	0.70	4.9	6.9	6.4	7.5	11	37	40	e8.5	0.71	0.43	4.9
8	0.73	5.5	7.3	6.4	7.5	12	37	40	e7.5	0.67	0.46	4.8
9	0.79	5.4	7.5	6.1	7.5	11	37	38	e7.0	0.67	0.49	4.9
10	0.88	5.1	7.8	6.1	7.3	11	37	38	e6.7	0.84	0.48	4.8
11	0.92	5.1	7.7	6.4	7.2	11	34	33	e6.7	0.93	0.46	5.3
12	0.96	4.4	7.4	6.5	7.4	10	30	25	e6.2	1.4	0.41	5.7
13	1.00	3.6	7.5	6.2	7.1	5.8	29	22	e5.8	1.3	0.66	6.4
14	1.0	5.1	8.2	6.3	6.9	5.2	31	19	e5.3	1.4	0.53	7.1
15	1.0	5.5	7.6	6.7	7.2	4.1	36	18	e4.1	1.7	e0.50	6.6
16	2.9	5.5	7.2	6.9	7.3	4.0	41	17	e3.5	1.6	e0.52	6.7
17	4.4	5.0	7.3	6.9	8.1	3.6	39	15	e2.6	1.4	e0.53	6.4
18	7.4	4.1	7.4	7.1	15	2.8	38	15	e1.5	1.3	e0.59	6.2
19	8.3	5.3	7.4	6.9	10	3.1	36	15	1.5	1.2	e0.45	5.9
20	7.7	4.9	7.1	7.1	53	2.2	31	14	1.7	1.00	e0.33	5.6
21	3.0	5.1	6.5	6.5	30	1.8	26	18	2.4	0.87	e0.54	5.3
22	3.3	6.3	7.1	6.2	17	3.7	21	21	2.5	0.73	e0.59	6.0
23	3.6	4.6	7.1	6.3	15	19	18	26	2.4	0.62	e0.65	5.9
24	3.9	5.8	7.3	6.4	15	21	16	23	1.8	0.62	e0.72	5.1
25	4.3	6.2	7.4	6.2	13	21	20	17	1.6	0.63	e0.71	5.4
26	4.1	5.2	7.5	6.5	10	20	33	16	1.7	0.57	e0.66	5.4
27	4.1	5.7	6.5	6.6	9.3	19	37	15	1.8	0.55	e0.76	5.3
28	4.3	6.5	6.6	6.5	9.0	20	40	12	1.9	0.55	1.0	4.8
29	3.1	6.6	6.4	7.4	---	21	38	10	1.5	0.61	1.4	3.7
30	5.4	6.4	6.4	e6.6	---	22	39	8.5	1.2	0.66	1.7	3.3
31	5.8	---	6.5	e6.8	---	25	---	7.6	---	0.62	1.6	---
TOTAL	87.39	158.4	223.2	202.6	323.9	346.6	956	780.1	147.7	27.87	20.35	147.5
MEAN	2.82	5.28	7.20	6.54	11.6	11.2	31.9	25.2	4.92	0.90	0.66	4.92
MAX	8.3	6.6	8.2	7.4	53	25	41	45	13	1.7	1.7	7.1
MIN	0.59	3.6	6.4	6.1	6.9	1.8	16	7.6	1.2	0.55	0.33	1.5
AC-FT	173	314	443	402	642	687	1900	1550	293	55	40	293

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

MEAN	8.35	11.1	10.7	17.0	24.5	68.5	91.3	83.5	24.1	6.18	4.41	4.57
MAX	30.1	39.4	42.6	82.6	72.5	225	223	422	84.7	32.6	24.1	18.9
(WY)	1998	1997	1997	1997	1997	1997	1922	1922	1998	1998	1996	1998
MIN	0.000	0.000	0.000	0.000	0.099	1.96	8.71	0.12	0.068	0.006	0.000	0.000
(WY)	1993	1993	1993	1924	1993	1994	1994	1992	1992	1992	1919	1919

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1913 - 2002	
ANNUAL TOTAL	1918.85		3421.61			
ANNUAL MEAN	5.26		9.37		28.4	
HIGHEST ANNUAL MEAN					76.4	1997
LOWEST ANNUAL MEAN					4.06	1924
HIGHEST DAILY MEAN	21	Apr 21	53	Feb 20	750	May 7 1922
LOWEST DAILY MEAN	0.11	Aug 23	0.33	Aug 20	0.00	Aug 17 1915
ANNUAL SEVEN-DAY MINIMUM	0.12	Aug 22	0.45	Aug 6	0.00	Aug 17 1915
MAXIMUM PEAK FLOW			93	Feb 20	800	May 7 1922
MAXIMUM PEAK STAGE			2.54	Feb 20	5.88	Mar 27 1993
ANNUAL RUNOFF (AC-FT)	3810		6790		20580	
10 PERCENT EXCEEDS	11		26		79	
50 PERCENT EXCEEDS	4.8		6.4		7.8	
90 PERCENT EXCEEDS	0.32		0.66		0.30	

e Estimated

HUMBOLDT RIVER BASIN

10322150 MARYS CREEK AT CARLIN, NV

LOCATION.--Lat 40°42'38", long 116°07'30", in SE $^1/_4$ SE $^1/_4$ sec.28, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, on left bank, 0.7 mi above confluence with Humboldt River, and 1.1 mi southeast of Carlin.

DRAINAGE AREA.--45.4 mi^2.

PERIOD OF RECORD.--November 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,930 ft above NGVD of 1929, from topographic map. Prior to June 3, 1992, at datum 2.0 ft higher.

REMARKS.--No estimated daily discharges. Records poor. Discharge affected by intermittent pumping for Carlin water system. See schematic diagram of Humboldt River Basin

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 530 ft^3/s, March 17, 1993, gage height, 8.15 ft; minimum daily, 0.11 ft^3/s, September 18, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft^3/s, February 20, gage height, 5.11 ft; maximum gage height, 5.56 ft, October 1, backwater from beaver dam; minimum daily, 0.11 ft^3/s, September 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.4	6.6	5.8	4.1	4.5	13	2.2	2.9	6.9	11	0.71
2	6.4	6.7	6.1	5.8	4.0	4.5	15	4.3	3.0	8.8	7.1	0.66
3	7.5	6.2	6.5	5.4	3.6	5.1	16	7.1	2.9	9.7	8.2	0.66
4	6.9	5.1	6.7	5.2	3.5	4.3	16	4.0	2.8	12	7.1	1.1
5	5.0	5.3	6.9	5.4	3.5	4.7	18	3.1	4.0	12	6.3	1.2
6	4.6	4.7	7.0	5.0	3.5	4.5	18	2.9	2.4	13	5.3	1.1
7	5.0	4.5	6.7	5.0	3.4	5.0	14	2.3	0.87	12	4.4	0.92
8	3.7	4.4	6.4	4.6	3.2	4.2	11	1.5	0.93	11	3.8	1.0
9	4.1	4.8	5.7	5.4	3.1	4.3	9.5	1.5	1.1	13	4.3	0.96
10	4.7	4.4	6.2	5.1	2.8	3.6	9.1	1.4	1.1	8.8	5.4	0.72
11	5.2	4.7	5.1	4.5	2.7	3.9	9.1	1.1	0.74	6.5	6.5	0.58
12	5.0	5.1	5.6	5.1	2.5	13	8.0	0.96	0.40	5.5	6.1	0.25
13	4.6	5.2	5.1	5.5	2.5	17	7.3	0.96	0.66	5.3	6.1	0.17
14	4.2	5.5	5.3	5.4	2.8	5.2	6.4	1.1	1.1	7.3	2.9	0.16
15	4.1	4.7	5.0	4.9	3.1	3.1	10	1.2	1.7	8.5	2.9	0.21
16	3.7	7.0	4.5	5.9	2.8	2.3	9.2	1.2	1.6	11	2.3	0.20
17	3.2	5.1	4.6	5.5	2.7	1.7	7.5	1.3	1.6	13	2.4	0.21
18	3.1	4.8	4.5	5.2	3.2	1.5	6.0	1.4	1.7	11	2.3	0.11
19	3.8	4.6	4.6	5.8	4.6	1.7	5.8	1.6	1.5	11	2.3	0.14
20	4.7	5.9	4.9	5.4	30	1.5	4.4	1.8	1.6	13	1.8	0.24
21	4.9	6.2	4.9	5.1	8.8	4.8	2.5	3.5	2.1	14	1.9	0.25
22	4.4	6.2	4.7	5.0	8.4	14	1.6	5.2	1.7	14	1.5	0.17
23	4.3	6.8	5.3	3.6	4.9	16	1.2	4.9	2.2	15	1.2	0.43
24	4.3	6.9	5.6	3.7	3.3	7.4	0.85	8.3	3.2	15	1.2	1.5
25	4.5	6.9	5.5	4.1	3.7	3.9	1.2	6.5	4.5	11	0.88	1.5
26	4.9	6.9	5.5	4.2	4.2	5.4	1.3	4.0	6.8	8.6	0.73	2.0
27	5.3	6.9	5.3	4.5	4.5	9.2	2.7	3.3	5.7	8.2	1.3	4.5
28	4.8	7.1	6.0	3.8	5.1	8.6	2.3	3.4	6.2	4.2	1.2	4.0
29	4.6	7.0	5.8	4.1	---	9.6	1.4	3.7	8.0	5.4	1.7	3.5
30	5.0	6.7	5.8	3.6	---	12	1.4	3.5	7.1	4.7	1.2	4.2
31	6.1	---	5.8	3.7	---	12	---	2.9	---	11	0.84	---
TOTAL	149.2	172.7	174.2	151.3	134.5	198.5	229.75	92.12	82.10	310.4	112.15	33.35
MEAN	4.813	5.757	5.619	4.881	4.804	6.403	7.658	2.972	2.737	10.01	3.618	1.112
MAX	7.5	7.1	7.0	5.9	30	17	18	8.3	8.0	15	11	4.5
MIN	3.1	4.4	4.5	3.6	2.5	1.5	0.85	0.96	0.40	4.2	0.73	0.11
AC-FT	296	343	346	300	267	394	456	183	163	616	222	66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	4.798	5.541	4.648	5.539	5.710	11.56	7.303	5.884	4.105	4.040	3.733	4.207
MAX	8.59	8.90	7.45	14.8	16.6	43.9	19.6	17.6	7.62	10.0	5.88	10.6
(WY)	2001	1998	2001	1997	1996	1993	1998	1998	1999	2002	2001	1998
MIN	2.13	3.47	2.21	2.85	1.78	3.16	2.64	1.90	1.36	1.60	2.34	1.11
(WY)	1993	1992	1997	1993	1993	1994	1992	1992	1991	1991	1992	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	2086.0		1840.27			
ANNUAL MEAN	5.715		5.042		5.724	
HIGHEST ANNUAL MEAN					9.54	1998
LOWEST ANNUAL MEAN					2.75	1992
HIGHEST DAILY MEAN	12	Apr 23	30	Feb 20	400	Mar 17 1993
LOWEST DAILY MEAN	3.1	Oct 18	0.11	Sep 18	0.11	Sep 18 2002
ANNUAL SEVEN-DAY MINIMUM	3.8	Oct 13	0.17	Sep 13	0.17	Sep 13 2002
MAXIMUM PEAK FLOW			53	Feb 20	530	Mar 17 1993
MAXIMUM PEAK STAGE			5.56	Oct 1	8.15	Mar 17 1993
ANNUAL RUNOFF (AC-FT)	4140		3650		4150	
10 PERCENT EXCEEDS	7.1		9.5		8.5	
50 PERCENT EXCEEDS	5.4		4.6		4.5	
90 PERCENT EXCEEDS	4.7		1.1		2.3	

HUMBOLDT RIVER BASIN

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'27", long 116°12'03", in SE $^1/_4$ SE $^1/_4$ sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, 0.2 mi downstream from Southern Pacific Railroad bridge, 0.5 mi downstream from Palisade, 0.8 mi upstream from Pine Creek, and at mi 316.10 above Derby Road bridge.

DRAINAGE AREA.--5,053 mi^2.

PERIOD OF RECORD.--October 1902 to September 1906, and July 1911 to current year.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914. WDR NV-00-1: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft above NGVD of 1929. Prior to April 1, 1939, nonrecording gages (water-stage recorder April 22 to June 3, 1935) at several sites within 0.5 mi of present site at various datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft^3/s, May 18, 1984, gage height, 10.08 ft; minimum daily, 2.0 ft^3/s, August 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft, present datum, about February 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft^3/s, June 6, gage height, 4.46 ft; minimum daily, 21 ft^3/s, August 20-21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	33	e39	66	e30	126	363	535	687	150	24	23
2	27	33	e48	66	e30	117	371	590	737	136	24	23
3	27	34	56	69	e30	119	384	684	843	125	24	22
4	26	34	54	e62	e30	118	408	853	1030	113	24	22
5	26	35	51	e56	e32	116	432	899	1170	97	24	22
6	26	35	53	e68	e35	118	434	871	1260	92	24	22
7	27	35	56	72	e42	125	431	816	1220	79	24	22
8	27	35	53	76	e47	139	424	669	1150	71	24	24
9	27	35	51	76	e46	139	434	610	1110	62	24	23
10	28	35	48	e72	e50	136	442	582	1090	62	24	23
11	29	35	e44	e64	e58	158	435	545	1060	59	24	23
12	29	36	e48	73	e64	155	421	527	1030	58	24	22
13	30	36	56	e65	e64	167	416	522	983	54	24	22
14	30	36	61	e60	e64	173	414	507	913	42	24	22
15	30	37	54	e60	e65	204	410	498	801	40	23	22
16	30	37	57	e54	e67	185	427	474	738	38	23	23
17	31	37	55	e50	e67	167	421	440	703	37	23	25
18	33	37	60	e48	e69	153	421	419	533	37	22	25
19	34	36	59	e42	e75	141	454	396	457	35	22	24
20	35	37	55	e48	e85	137	480	439	428	35	21	23
21	33	38	60	e64	e170	144	488	601	407	34	21	23
22	31	45	54	e48	144	182	476	657	382	34	22	23
23	31	45	59	e38	121	244	434	708	350	33	22	23
24	32	47	50	e38	130	266	390	861	343	32	22	23
25	33	47	e46	e42	128	247	347	946	277	28	22	24
26	33	44	e42	e55	121	253	330	947	219	27	22	23
27	33	40	e42	e55	122	270	347	842	195	26	23	24
28	34	37	60	e32	129	313	370	773	181	26	23	24
29	33	e35	57	e30	---	310	407	706	171	24	23	25
30	33	e37	58	e26	---	350	486	691	162	24	23	25
31	34	---	62	e30	---	368	---	694	---	25	23	---
TOTAL	937	1123	1648	1705	2115	5840	12497	20302	20630	1735	716	694
MEAN	30.23	37.43	53.16	55.00	75.54	188.4	416.6	654.9	687.7	55.97	23.10	23.13
MAX	35	47	62	76	170	368	488	947	1260	150	24	25
MIN	25	33	39	26	30	116	330	396	162	24	21	22
MED	30	36	54	56	64	158	421	657	720	38	23	23
AC-FT	1860	2230	3270	3380	4200	11580	24790	40270	40920	3440	1420	1380

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 2002, BY WATER YEAR (WY)

MEAN	59.06	88.47	106.0	145.8	284.4	585.8	850.4	1009	1190	343.6	60.55	36.90
MAX	369	411	720	616	1779	2949	4222	5719	4635	1960	571	199
(WY)	1983	1984	1984	1997	1986	1983	1984	1984	1984	1984	1984	1984
MIN	10.3	10.3	10.0	10.0	30.1	104	29.9	11.3	6.27	5.71	3.68	6.53
(WY)	1932	1932	1932	1932	1932	1934	1934	1934	1931	1931	1931	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1903 - 2002	
ANNUAL TOTAL	41967		69942			
ANNUAL MEAN	115.0		191.6		395.9	
HIGHEST ANNUAL MEAN					1846	1984
LOWEST ANNUAL MEAN					34.8	1934
HIGHEST DAILY MEAN	757	May 20	1260	Jun 6	7820	May 18 1984
LOWEST DAILY MEAN	17	Aug 22	21	Aug 20	2.0	Aug 25 1931
ANNUAL SEVEN-DAY MINIMUM	19	Sep 7	22	Aug 18	2.4	Aug 22 1931
MAXIMUM PEAK FLOW			1280	Jun 6	7870	May 18 1984
MAXIMUM PEAK STAGE			4.46	Jun 6	10.08	May 18 1984
ANNUAL RUNOFF (AC-FT)	83240		138700		286800	
10 PERCENT EXCEEDS	285		585		1170	
50 PERCENT EXCEEDS	50		55		121	
90 PERCENT EXCEEDS	24		23		24	

e Estimated

10323425 HUMBOLDT RIVER AT OLD U.S. HIGHWAY 40 BRIDGE AT DUNPHY, NV

LOCATION.--Lat 40°42'20", long 116°31'48", in SE $^1/_4$ SE $^1/_4$ sec.26, T.33 N., R.48 E., Eureka County, Hydrologic Unit 16040105, on right downstream bridge abutment, at Dunphy, and at mi 280.41 above Derby Road bridge.

DRAINAGE AREA.--7,388 mi^2.

PERIOD OF RECORD.--February 1991 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,630 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,140 ft^3/s, June 9, 1995, gage height, 8.57 ft; minimum daily, 1.6 ft^3/s, August 13, 1992.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood February 12, 1962, maximum discharge 7,620 ft^3/s, computed by slope-area and culvert computations of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft^3/s, June 6, gage height, 5.29 ft; minimum daily, 6.7 ft^3/s, October 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	15	26	59	e46	123	369	445	636	173	20	10
2	10	16	25	62	e50	112	346	467	652	159	20	10
3	6.7	15	35	62	e55	108	355	522	710	142	19	10
4	9.3	15	32	61	e55	111	357	616	811	131	18	11
5	9.7	16	31	60	e61	111	367	737	968	121	17	10
6	9.8	17	32	61	e60	113	365	748	1070	109	17	11
7	9.8	17	30	64	66	108	368	726	1090	100	16	11
8	9.6	17	34	63	71	113	366	673	1040	91	16	12
9	9.8	17	36	65	60	125	358	577	1000	93	16	12
10	9.9	17	32	64	54	127	374	539	999	83	15	12
11	11	18	30	63	61	128	368	514	980	77	15	11
12	11	19	28	64	65	149	354	485	947	76	14	11
13	11	20	32	61	52	148	341	475	915	73	14	11
14	12	21	41	59	71	158	338	467	867	67	13	11
15	12	21	37	64	57	173	333	459	802	57	13	10
16	12	15	43	63	62	199	341	446	719	53	13	11
17	12	15	35	62	71	149	349	412	683	49	12	11
18	12	17	34	60	68	136	347	391	625	47	12	12
19	12	21	45	54	69	125	363	374	492	45	11	12
20	13	18	45	60	90	116	388	356	439	43	11	12
21	13	18	41	68	175	116	406	440	422	40	11	11
22	14	21	38	65	230	129	411	556	405	37	11	11
23	14	29	38	54	210	168	394	599	380	35	12	11
24	13	31	32	e49	196	243	359	667	351	33	12	11
25	13	38	e24	50	176	257	325	794	340	30	12	11
26	14	38	e20	56	155	249	296	836	288	27	11	12
27	15	35	e24	64	135	256	291	813	241	25	11	12
28	15	30	26	e60	131	278	312	734	204	23	11	12
29	15	18	45	e54	---	309	321	681	194	22	11	12
30	15	23	45	e48	---	320	375	638	186	21	11	12
31	16	---	58	e46	---	360	---	632	---	20	10	---
TOTAL	371.6	628	1074	1845	2652	5317	10637	17819	19456	2102	425	336
MEAN	11.99	20.93	34.65	59.52	94.71	171.5	354.6	574.8	648.5	67.81	13.71	11.20
MAX	16	38	58	68	230	360	411	836	1090	173	20	12
MIN	6.7	15	20	46	46	108	291	356	186	20	10	10
AC-FT	737	1250	2130	3660	5260	10550	21100	35340	38590	4170	843	666

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	42.12	76.83	100.5	176.9	253.5	560.5	632.6	881.7	1135	359.8	59.95	23.94
MAX	137	210	253	667	564	1433	1369	1939	2581	1300	216	72.9
(WY)	1999	1999	1997	1997	1997	1997	1996	1998	1995	1995	1998	1998
MIN	8.51	20.9	33.7	38.7	45.1	161	148	159	37.5	7.87	2.93	2.49
(WY)	1992	2002	1993	1993	1993	1994	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1991 - 2002	
ANNUAL TOTAL	38784.8		62662.6			
ANNUAL MEAN	106.3		171.7		375.8	
HIGHEST ANNUAL MEAN					728	1997
LOWEST ANNUAL MEAN					79.8	1992
HIGHEST DAILY MEAN	663	May 21	1090	Jun 7	5040	Jun 9 1995
LOWEST DAILY MEAN	6.7	Oct 3	6.7	Oct 3	1.6	Aug 13 1992
ANNUAL SEVEN-DAY MINIMUM	9.1	Sep 8	9.2	Oct 3	2.1	Sep 18 1992
MAXIMUM PEAK FLOW			1130	Jun 6	5140	Jun 9 1995
MAXIMUM PEAK STAGE			5.29	Jun 6	8.57	Jun 9 1995
ANNUAL RUNOFF (AC-FT)	76930		124300		272200	
10 PERCENT EXCEEDS	299		517		1200	
50 PERCENT EXCEEDS	38		57		122	
90 PERCENT EXCEEDS	11		11		14	

e Estimated

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°35'00", in SW $^1/_4$ NE $^1/_4$ sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, at mouth of canyon on left bank, and 22 mi northeast of Battle Mountain.

DRAINAGE AREA.--864 mi^2.

PERIOD OF RECORD.--March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P); WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,670 ft above NGVD of 1929, estimated from nearby U.S. Coast and Geodetic Survey bench mark. Prior to March 26, 1918, nonrecording gage at site about 11 mi upstream at different datum. March 26, 1918, to October 28, 1970, water-stage recorder at site 0.4 mi upstream, at the following datums: at different datum March 26, 1918, to January 3, 1946; at datum 9.45 ft higher January 4, 1946, to July 23, 1964; at datum 7.35 ft higher July 23, 1964, to October 31, 1968; and at datum 6.34 ft higher November 1, 1968, to October 28, 1970.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several diversions for irrigation in valleys upstream. Station is above all diversions in Boulder Flat. Flow can be affected by Willow Creek Reservoir in Squaw Valley, 30 mi upstream, usable capacity, 18,000 acre-ft. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s, February 11, 1962, gage height, 6.89 ft; maximum gage height, 6.91 ft, January 3, 1997; no flow at times during summer months in some years

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 75 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 21	0400	*366	*3.75	Mar 23	2330	139	3.10

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	3.2	e8.5	7.7	e4.6	29	89	30	13	1.2	0.00	0.45
2	1.7	3.2	e9.4	7.3	e4.5	25	87	43	13	1.1	0.00	0.47
3	1.7	3.4	e8.8	e7.2	e4.2	22	92	53	11	0.79	0.00	0.47
4	1.6	3.3	e8.2	e7.0	e2.7	21	89	46	13	0.69	0.00	0.42
5	1.7	3.2	e9.1	e6.8	e2.1	20	88	30	11	0.59	0.00	0.43
6	1.8	3.2	e7.9	e7.4	1.4	20	81	27	13	0.46	0.00	0.46
7	1.8	3.1	e7.7	e7.5	1.2	23	66	26	12	0.43	0.00	0.56
8	2.0	3.1	e7.2	e7.3	e2.0	46	60	26	7.6	0.35	0.00	0.57
9	2.1	3.1	e6.5	e7.0	e2.3	39	54	27	5.7	0.28	0.00	0.66
10	2.0	3.1	e5.1	e6.5	e2.7	31	53	28	5.6	0.20	0.00	0.82
11	2.0	3.3	e6.0	e6.0	3.0	36	52	27	5.3	0.14	0.00	0.93
12	2.3	3.4	e5.6	e5.8	e4.0	31	45	26	4.9	0.10	0.00	0.89
13	2.3	3.7	e5.1	e6.1	e4.4	46	39	24	4.7	0.06	0.00	0.91
14	2.5	3.7	e5.6	e6.0	e4.4	80	34	20	4.7	0.04	0.00	0.86
15	2.5	3.7	e7.0	e6.3	e5.2	49	34	18	3.9	0.03	0.00	0.86
16	2.5	3.7	e7.2	e6.2	8.1	34	31	16	3.3	0.05	0.00	1.0
17	2.5	3.6	e7.6	e6.0	8.1	33	36	13	2.7	0.03	0.00	1.2
18	2.5	4.3	e7.0	e5.8	8.8	27	44	14	2.0	0.03	0.00	1.3
19	2.5	12	6.9	e5.5	17	25	47	13	1.6	0.04	0.00	1.4
20	2.5	14	6.3	e5.5	44	27	49	12	1.4	0.04	0.00	1.5
21	2.5	15	5.5	e5.7	166	25	47	14	1.4	0.03	0.00	1.5
22	2.5	19	5.1	e5.0	110	59	45	11	1.3	0.02	0.00	1.4
23	2.5	20	e5.0	e4.2	96	112	43	14	1.2	0.0	0.00	1.3
24	2.5	18	e4.0	e4.4	74	93	40	14	0.92	0.00	0.00	1.3
25	2.5	17	e4.4	e5.0	66	77	31	18	0.75	0.00	0.00	1.2
26	2.5	18	e4.2	e4.8	50	80	33	26	0.59	0.00	0.18	1.2
27	2.6	e13	e4.0	e3.5	39	69	26	25	0.47	0.00	0.32	1.2
28	2.7	e13	e4.0	e2.7	33	80	23	22	0.39	0.00	0.41	1.3
29	2.8	e10	e4.6	e2.3	---	92	24	18	1.2	0.00	0.46	1.4
30	2.9	e9.5	5.7	e2.5	---	94	25	16	1.5	0.00	0.46	1.6
31	3.5	---	7.0	e3.8	---	99	---	14	---	0.00	0.42	---
TOTAL	71.7	239.8	196.2	174.8	768.7	1544	1507	711	149.12	6.70	2.25	29.56
MEAN	2.313	7.993	6.329	5.639	27.45	49.81	50.23	22.94	4.971	0.216	0.073	0.985
MAX	3.5	20	9.4	7.7	166	112	92	53	13	1.2	0.46	1.6
MIN	1.6	3.1	4.0	2.3	1.2	20	23	11	0.39	0.00	0.00	0.42
AC-FT	142	476	389	347	1520	3060	2990	1410	296	13	4.5	59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2002, BY WATER YEAR (WY)

MEAN	3.278	4.423	8.323	19.72	53.14	107.4	142.4	92.84	30.52	4.096	1.303	2.064
MAX	48.1	19.5	104	269	385	630	1178	725	174	35.6	15.5	24.6
(WY)	1998	1997	1984	1997	1986	1984	1952	1984	1998	1984	1984	1997
MIN	0.077	0.77	0.50	0.30	1.00	2.93	1.10	0.85	0.15	0.000	0.000	0.000
(WY)	1956	1962	1949	1949	1922	1963	1968	1992	1961	1919	1919	1919

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1918 - 2002	
ANNUAL TOTAL	3201.92		5400.83			
ANNUAL MEAN	8.772		14.80		39.59	
HIGHEST ANNUAL MEAN					235	1984
LOWEST ANNUAL MEAN					2.27	1994
HIGHEST DAILY MEAN	85	Mar 10	166	Feb 21	3510	Feb 10 1962
LOWEST DAILY MEAN	0.00	Aug 2	0.00	Jul 23	0.00	Jul 6 1918
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 2	0.00	Jul 23	0.00	Jul 14 1918
MAXIMUM PEAK FLOW			366	Feb 21	4800	Feb 11 1962
MAXIMUM PEAK STAGE			3.75	Feb 21	6.91	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	6350		10710		28680	
10 PERCENT EXCEEDS	25		45		100	
50 PERCENT EXCEEDS	3.5		4.6		4.4	
90 PERCENT EXCEEDS	0.09		0.03		0.04	

e Estimated

HUMBOLDT RIVER BASIN

10324700 BOULDER CREEK NEAR DUNPHY, NV

LOCATION.--Lat 40°57'04", long 116°26'39", in NE $^1/_4$ SE $^1/_4$ sec.33, T.36 N., R.49 E., Eureka County, Hydrologic Unit 16040105, on left bank, approximately 20 mi north of Dunphy.

DRAINAGE AREA.--76.7 mi^2.

PERIOD OF RECORD.--February 1991 to June 1993. Seasonal (January-June) record since June 1993.

GAGE.--Water-stage recorder. Elevation of gage is 5,010 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft^3/s, January 2, 1997, gage height, 4.40 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during January to June, 40 ft^3/s, February 22, gage height, 2.62 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.00	e0.00	6.3	3.1	9.2	0.40	---	---	---
2	---	---	---	0.00	e0.00	6.7	14	8.8	2.7	---	---	---
3	---	---	---	2.4	e0.00	5.2	16	8.5	1.4	---	---	---
4	---	---	---	2.5	e0.00	4.1	16	7.8	0.00	---	---	---
5	---	---	---	2.2	e0.00	3.6	16	8.0	0.00	---	---	---
6	---	---	---	3.9	e0.00	4.0	17	8.3	0.00	---	---	---
7	---	---	---	12	e0.00	5.2	16	9.0	0.00	---	---	---
8	---	---	---	15	e0.00	4.7	14	8.8	0.00	---	---	---
9	---	---	---	13	e0.00	4.4	14	8.4	0.00	---	---	---
10	---	---	---	8.6	e0.00	3.9	13	8.0	0.00	---	---	---
11	---	---	---	7.5	e0.00	3.5	11	7.7	0.00	---	---	---
12	---	---	---	5.8	e0.00	4.2	10	6.5	0.00	---	---	---
13	---	---	---	4.3	e0.00	5.8	10	5.8	0.00	---	---	---
14	---	---	---	3.4	e0.05	4.5	11	5.3	0.00	---	---	---
15	---	---	---	e1.0	e0.10	4.5	12	5.1	0.00	---	---	---
16	---	---	---	e0.36	e0.20	4.1	12	5.2	0.00	---	---	---
17	---	---	---	0.06	e0.40	2.4	12	4.8	0.00	---	---	---
18	---	---	---	e0.02	e0.90	4.1	10	4.2	0.00	---	---	---
19	---	---	---	e0.00	e1.6	3.1	9.2	3.8	0.00	---	---	---
20	---	---	---	e0.00	e2.5	3.2	7.4	3.8	0.00	---	---	---
21	---	---	---	e0.00	6.4	3.7	5.9	5.2	0.00	---	---	---
22	---	---	---	e0.00	18	5.5	5.0	4.5	0.00	---	---	---
23	---	---	---	e0.00	15	6.6	4.4	3.9	0.00	---	---	---
24	---	---	---	e0.00	12	6.9	4.1	3.1	0.00	---	---	---
25	---	---	---	e0.00	9.8	8.0	3.9	2.5	0.00	---	---	---
26	---	---	---	e0.00	9.3	6.6	4.3	2.2	0.00	---	---	---
27	---	---	---	e0.00	8.5	6.2	5.0	1.9	0.00	---	---	---
28	---	---	---	e0.00	7.2	7.1	4.8	1.7	0.00	---	---	---
29	---	---	---	e0.00	---	7.5	5.0	1.2	0.00	---	---	---
30	---	---	---	e0.00	---	8.8	6.3	0.18	0.00	---	---	---
31	---	---	---	e0.00	---	6.1	---	0.00	---	---	---	---
TOTAL	---	---	---	82.04	91.95	160.5	292.4	163.38	4.50	---	---	---
MEAN	---	---	---	2.646	3.284	5.177	9.747	5.270	0.150	---	---	---
MAX	---	---	---	15	18	8.8	17	9.2	2.7	---	---	---
MIN	---	---	---	0.00	0.00	2.4	3.1	0.00	0.00	---	---	---
AC-FT	---	---	---	163	182	318	580	324	8.9	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	0.000	0.000	0.000	4.019	6.183	12.52	11.60	14.55	1.501	0.000	0.000	0.007
MAX	0.000	0.000	0.000	38.5	44.8	57.6	40.2	80.7	14.4	0.000	0.000	0.014
(WY)	1992	1992	1992	1997	1996	1993	1998	1998	1998	1991	1991	1991
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1992	1992	1992	1992	1991	1991	1991	1992	1992	1991	1991	1992

SUMMARY STATISTICS WATER YEARS 1991 - 2002

ANNUAL MEAN	0.085		
HIGHEST ANNUAL MEAN	0.085		1992
LOWEST ANNUAL MEAN	0.085		1992
HIGHEST DAILY MEAN	350	Jan 2	1997
LOWEST DAILY MEAN	0.00	Feb 1	1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 1	1991
MAXIMUM PEAK FLOW	440	Jan 2	1997
MAXIMUM PEAK STAGE	4.40	Jan 2	1997
ANNUAL RUNOFF (AC-FT)	62		
10 PERCENT EXCEEDS	0.00		
50 PERCENT EXCEEDS	0.00		
90 PERCENT EXCEEDS	0.00		

e Estimated

HUMBOLDT RIVER BASIN

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'04", long 116°55'49", in NE $^1/_4$ NW $^1/_4$ sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, on left bank, downstream side of bridge on State Highway 806, 2 mi north of Battle Mountain, and at mi 249.01 above Derby Road bridge. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,860 mi^2.

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to September 1981, February 1991 to current year.

REVISED RECORD.--WSP 1564: 1897-98, 1923; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4489.04 ft above NGVD of 1929, from levels by the U.S. Geological Survey. Prior to March 1, 1921, nonrecording gage 1.3 mi upstream and March 1, 1921, to April 19, 1924, nonrecording gage 0.8 mi upstream, both at different datums. October 1945 to September 10, 1972, water-stage recorder at site 1.0 mi upstream at datum 4.79 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,800 ft^3/s, May 3, 1952, maximum gage height, 10.62 ft, June 12, 1995; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 904 ft^3/s, June 7-9, gage height, 6.74 ft; no flow many days, October, August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	9.8	40	e24	e26	158	327	267	577	184	8.0	0.00
2	0.00	10	37	e26	e33	152	329	303	585	169	8.0	0.00
3	0.00	12	30	e32	e31	142	321	335	594	155	7.9	0.00
4	0.00	12	31	e38	e28	134	329	375	644	140	7.2	0.00
5	0.00	11	31	e39	e29	134	317	502	735	131	6.4	0.00
6	0.00	11	33	e38	e32	130	337	563	821	119	5.9	0.00
7	0.00	12	32	e37	e38	133	338	563	886	108	5.8	0.00
8	0.00	12	31	e37	e45	129	339	558	901	99	5.3	0.00
9	0.00	12	e30	e37	e41	134	339	627	887	91	5.2	0.00
10	0.00	13	e27	e35	e43	140	338	538	888	88	5.0	0.00
11	0.00	14	e29	e34	e49	139	345	531	893	76	4.9	0.00
12	0.00	14	e31	e34	e56	142	338	475	887	70	4.5	0.00
13	0.00	17	e28	e34	e56	160	325	456	871	65	4.2	0.00
14	0.48	16	e30	e32	56	163	310	449	849	60	3.7	0.00
15	1.2	17	e32	e28	63	165	310	437	805	54	3.2	0.00
16	1.7	19	e24	e25	58	183	301	427	743	47	3.0	0.00
17	2.4	18	e26	e22	59	195	314	411	688	42	2.4	0.00
18	2.2	14	e25	e16	63	169	316	384	654	38	2.1	0.00
19	2.5	15	e28	e20	61	153	317	365	564	35	1.9	0.00
20	3.0	16	e30	e20	72	140	327	346	488	32	1.3	0.00
21	3.4	20	e32	e21	80	132	343	351	446	28	0.92	0.00
22	3.9	20	e30	e28	148	129	352	442	425	25	0.68	0.00
23	5.4	21	e28	e31	186	140	318	506	402	22	0.51	0.00
24	6.4	23	e26	e32	182	170	232	539	368	20	0.31	0.00
25	6.3	28	e27	e36	183	221	242	613	339	18	0.17	0.00
26	6.6	32	e25	e46	179	236	242	686	319	17	0.05	0.00
27	6.7	36	e24	e45	168	240	232	708	273	16	0.00	0.00
28	7.5	e33	e24	e40	160	251	229	681	237	14	0.00	0.00
29	7.9	e31	e23	e35	---	274	236	635	206	13	0.00	0.00
30	8.4	e35	e23	e31	---	283	244	597	194	11	0.00	0.00
31	10	---	e25	e27	---	302	---	579	---	9.2	0.00	---
TOTAL	85.98	553.8	892	980	2225	5373	9187	15249	18169	1996.2	98.54	0.00
MEAN	2.774	18.46	28.77	31.61	79.46	173.3	306.2	491.9	605.6	64.39	3.179	0.000
MAX	10	36	40	46	186	302	352	708	901	184	8.0	0.00
MIN	0.00	9.8	23	16	26	129	229	267	194	9.2	0.00	0.00
AC-FT	171	1100	1770	1940	4410	10660	18220	30250	36040	3960	195	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2002, BY WATER YEAR (WY)

MEAN	31.61	71.93	107.3	182.4	283.6	512.2	750.9	894.2	1093	356.5	48.28	16.92
MAX	194	291	334	1123	999	1693	3060	3718	3496	1418	243	120
(WY)	1999	1999	1999	1997	1962	1997	1952	1952	1980	1995	1975	1965
MIN	0.000	0.21	3.67	9.58	22.7	102	96.9	50.7	20.7	2.36	0.000	0.000
(WY)	1993	1955	1955	1955	1955	1961	1959	1959	1992	1992	1992	1981

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1897 - 2002	
ANNUAL TOTAL	33196.74		54809.52			
ANNUAL MEAN	90.95		150.2		361.7	
HIGHEST ANNUAL MEAN					889	1971
LOWEST ANNUAL MEAN					54.5	1955
HIGHEST DAILY MEAN	664	May 22	901	Jun 8	5800	May 3 1952
LOWEST DAILY MEAN	0.00	Aug 22	0.00	Oct 1	0.00	Sep 8 1948
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 22	0.00	Oct 1	0.00	Sep 8 1948
MAXIMUM PEAK FLOW			904	Jun 7	5800	May 3 1952
MAXIMUM PEAK STAGE			6.74	Jun 7	10.62	Jun 12 1995
ANNUAL RUNOFF (AC-FT)	65850		108700		262100	
10 PERCENT EXCEEDS	236		480		1060	
50 PERCENT EXCEEDS	33		33		121	
90 PERCENT EXCEEDS	0.00		0.00		4.1	

e Estimated

HUMBOLDT RIVER BASIN

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°59'32", long 117°19'00", in SE $^{1}/_{4}$ SE $^{1}/_{4}$ sec.14, T.36 N., R.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank, at Comus siding of Southern Pacific Railroad, 9.0 mi northeast of Golconda, 1.0 mi upstream of Kelly Creek, 32 mi northwest of Battle Mountain, and at mi 191.48 above Derby Road bridge.

DRAINAGE AREA.--12,217 mi^2, at current location at Comus railroad siding.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,350 ft, above NGVD of 1929, from topographic map. Prior to September 25, 1917, nonrecording gages at several sites in vicinity of present location at different datums. September 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 7.0 mi of present site at different datum, October 1, 1945 to December 11, 1997 at site 6.5 mi upstream at different datum. December 12, 1997 to March 2, 2000, at site 6.5 mi downstream at Preble bridge. March 7, 2000, gage moved back to upstream site at Comus railroad siding.

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions above station for irrigation, 206,000 acres, additional acreage not covered by decree. Flows significantly influenced by discharge into river from mine de-watering approximately 15.5 mi upstream. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft^3/s, April 24, 1984, gage height, 12.25 ft; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 907 ft^3/s, June 11, gage height, 6.28 ft; minimum daily, 1.2 ft^3/s, October 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	3.9	37	24	41	144	261	255	547	272	34	24
2	15	1.9	39	34	45	143	276	267	542	241	47	24
3	13	1.3	38	51	37	141	289	279	545	217	52	25
4	17	8.1	36	42	33	138	295	301	541	200	53	26
5	17	16	36	63	36	131	305	327	548	188	52	31
6	16	16	30	82	39	143	324	360	494	177	53	31
7	8.1	15	22	74	46	147	318	385	546	166	65	30
8	3.5	19	14	47	56	137	322	387	585	158	68	31
9	2.2	21	27	34	51	136	320	396	606	150	58	31
10	1.6	23	29	30	55	133	327	422	616	140	36	31
11	1.4	33	32	27	65	137	325	500	720	135	41	21
12	1.3	28	24	30	69	155	324	499	715	128	40	18
13	1.2	23	9.2	29	77	178	337	470	708	119	42	21
14	1.3	27	6.2	23	79	187	324	446	700	115	38	20
15	1.3	29	4.6	18	77	199	316	444	688	105	41	21
16	1.4	33	3.2	18	87	204	313	440	674	98	41	19
17	1.4	35	2.9	17	89	203	322	445	648	95	42	28
18	1.4	34	2.3	21	87	217	321	417	616	90	41	21
19	1.6	35	1.7	21	84	216	329	393	597	86	43	29
20	10	34	1.6	21	98	194	342	381	574	52	41	29
21	12	38	1.5	27	89	180	333	367	531	32	45	25
22	11	41	2.3	38	87	170	341	347	495	21	49	21
23	11	35	e7.0	36	97	165	348	333	470	15	49	20
24	16	36	e13	38	136	167	346	347	441	11	49	19
25	18	38	20	47	143	173	259	356	403	9.0	45	23
26	27	34	22	57	147	199	257	367	377	30	44	25
27	32	33	24	58	151	236	256	393	354	32	40	27
28	30	33	28	52	149	229	247	412	347	34	32	28
29	24	38	28	43	---	233	241	455	324	30	29	30
30	22	39	28	40	---	243	246	535	294	29	21	14
31	16	---	29	34	---	254	---	550	---	35	24	---
TOTAL	346.7	801.2	598.5	1176	2250	5532	9164	12276	16246	3210.0	1355	743
MEAN	11.18	26.71	19.31	37.94	80.36	178.5	305.5	396.0	541.5	103.5	43.71	24.77
MAX	32	41	39	82	151	254	348	550	720	272	68	31
MIN	1.2	1.3	1.5	17	33	131	241	255	294	9.0	21	14
AC-FT	688	1590	1190	2330	4460	10970	18180	24350	32220	6370	2690	1470

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2002, BY WATER YEAR (WY)

MEAN	33.10	64.46	98.17	143.0	257.5	528.6	744.6	761.2	879.5	418.6	74.30	21.64
MAX	259	386	791	762	873	3267	5312	6227	4630	1930	636	190
(WY)	1985	1984	1984	1984	1984	1983	1984	1984	1984	1984	1984	1984
MIN	0.045	0.10	0.090	0.10	0.16	25.0	57.8	9.79	3.33	0.079	0.084	0.000
(WY)	1954	1955	1961	1955	1955	1896	1920	1918	1918	1992	1954	1920

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1895 - 2002	
ANNUAL TOTAL	29821.75		53698.4			
ANNUAL MEAN	81.70		147.1		335.0	
HIGHEST ANNUAL MEAN					2022	1984
LOWEST ANNUAL MEAN					36.8	1920
HIGHEST DAILY MEAN	391	May 26	720	Jun 11	9640	Apr 25 1984
LOWEST DAILY MEAN	0.35	Sep 17	1.2	Oct 13	0.00	Sep 16 1905
ANNUAL SEVEN-DAY MINIMUM	0.38	Sep 15	1.3	Oct 11	0.00	Jan 1 1906
MAXIMUM PEAK FLOW			907	Jun 11	9900	Apr 24 1984
MAXIMUM PEAK STAGE			6.28	Jun 11	12.25	Apr 24 1984
ANNUAL RUNOFF (AC-FT)	59150		106500		242700	
10 PERCENT EXCEEDS	223		414		922	
50 PERCENT EXCEEDS	36		47		116	
90 PERCENT EXCEEDS	2.3		13		0.80	

e Estimated

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°24'55", long 117°22'22", in NW $^1/_4$ SE $^1/_4$ sec.20, T.41 N., R.41 E., Humboldt County, Hydrologic Unit 16040109, on right bank, 3.5 mi downstream from Bull Head Ranch, and 9.5 mi southeast of Paradise Valley.

DRAINAGE AREA.--1,030 mi^2, approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,470 ft, from river-profile map. Prior to November 21, 1946, water-stage recorder at site 1 mi downstream at different datum. November 21, 1946, to August 16, 1972, at site 250 ft upstream at datum 2.21 ft higher, August 16, 1972 to January 7, 1998 at same site at datum 3.0 ft lower.

REMARKS.--Records good. Flow regulated by Chimney Dam Reservoir, capacity, 35,000 acre-ft, 10 mi upstream, since 1975. Records not adjusted for storage. Diversions for irrigation of 4,450 acres, Little Humboldt Decree, above station. Station is above all diversions in Paradise Valley. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 2,380 ft^3/s, January 21, 1969, gage height, 8.40 ft; maximum discharge after dam completed, 678 ft^3/s, May 15, 1984, gage height, 6.46 ft; minimum daily before dam, 4.0 ft^3/s, January 7, 1970; minimum daily after dam, 4.1 ft^3/s, July 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82 ft^3/s, April 25, gage height, 4.46 ft; minimum daily, 6.7 ft^3/s, August 30 and September 1-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.6	7.6	7.8	7.7	7.8	29	67	38	7.7	6.9	6.7
2	8.4	7.6	7.7	7.8	7.8	7.8	37	65	38	7.5	6.9	6.7
3	8.6	7.5	7.7	7.9	7.8	7.9	39	61	38	7.6	6.9	6.7
4	8.5	7.5	7.5	7.8	7.8	7.9	39	60	38	7.5	6.9	6.7
5	8.4	7.5	7.6	7.8	7.9	7.9	40	59	38	7.5	6.9	6.7
6	8.4	7.4	8.0	7.9	7.8	7.9	40	57	38	7.5	6.8	6.7
7	8.4	7.4	7.9	8.0	7.7	8.0	40	45	38	7.5	6.9	6.7
8	8.3	7.4	7.7	7.8	7.8	7.9	40	44	38	7.3	6.8	6.7
9	8.2	7.3	7.7	7.8	7.6	7.9	41	52	38	7.3	6.9	6.8
10	8.0	7.3	7.6	7.7	7.6	7.9	41	54	38	7.3	6.8	6.8
11	8.0	7.2	7.6	7.7	7.6	7.9	42	54	31	7.3	6.9	6.8
12	8.1	7.2	7.6	7.6	7.5	7.9	40	53	31	7.3	6.8	6.8
13	8.0	7.2	7.7	7.6	7.5	8.1	40	53	31	7.3	6.8	6.8
14	8.1	7.2	8.2	7.6	7.6	8.1	41	51	19	7.3	6.8	6.8
15	8.1	7.1	7.8	7.6	7.5	8.0	40	39	13	7.2	6.8	6.8
16	8.1	7.1	7.7	7.6	7.6	8.0	36	38	13	7.2	6.8	6.9
17	8.1	7.2	7.7	7.6	7.7	8.0	36	38	13	7.2	6.8	6.9
18	8.1	7.2	7.7	7.6	7.6	8.1	39	38	12	7.2	6.8	6.9
19	8.1	7.2	7.7	7.6	7.7	8.1	32	38	9.4	7.3	6.8	6.8
20	8.0	7.2	7.8	7.7	7.7	8.1	38	38	8.2	7.1	6.8	6.8
21	8.0	7.3	7.7	7.8	7.7	8.1	40	38	8.1	7.1	6.8	6.8
22	7.9	7.5	7.7	7.8	7.8	8.1	49	38	8.0	6.9	6.8	6.8
23	8.0	7.3	7.7	7.8	7.8	8.8	54	38	8.0	6.9	6.8	6.9
24	7.9	7.4	7.7	7.7	7.7	8.2	56	38	7.9	7.0	6.8	6.8
25	7.9	7.4	7.7	7.8	7.7	8.1	59	38	7.8	6.9	6.8	6.9
26	7.9	7.4	7.7	7.8	7.8	8.1	68	38	7.7	6.9	6.8	6.9
27	7.8	7.3	7.7	7.9	7.8	8.1	66	38	7.7	7.0	6.8	6.9
28	7.9	7.4	7.7	7.8	7.8	23	66	38	7.7	6.9	6.8	6.9
29	7.8	7.5	7.7	7.8	---	27	67	38	7.7	7.0	6.8	6.9
30	7.7	7.4	7.7	7.8	---	28	67	38	7.7	6.9	6.7	7.0
31	7.7	---	7.9	7.7	---	28	---	38	---	6.9	6.8	---
TOTAL	250.7	220.2	239.4	240.2	215.6	322.7	1362	1422	638.9	223.5	211.5	204.3
MEAN	8.087	7.340	7.723	7.748	7.700	10.41	45.40	45.87	21.30	7.210	6.823	6.810
MAX	8.6	7.6	8.2	8.0	7.9	28	68	67	38	7.7	6.9	7.0
MIN	7.7	7.1	7.5	7.6	7.5	7.8	29	38	7.7	6.9	6.7	6.7
AC-FT	497	437	475	476	428	640	2700	2820	1270	443	420	405

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

MEAN	8.993	9.322	9.434	9.308	10.96	12.90	37.40	64.13	49.57	25.01	17.89	12.33
MAX	28.8	29.1	26.0	25.3	27.4	43.2	188	404	249	78.7	57.9	46.5
(WY)	1985	1985	1985	1985	1985	1984	1984	1984	1983	1983	1983	1986
MIN	6.14	6.75	7.20	6.99	6.85	7.93	7.98	8.00	6.11	6.57	5.94	6.62
(WY)	1995	1989	1999	1981	1995	1997	1994	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1975 - 2002	
ANNUAL TOTAL	5228.4		5551.0			
ANNUAL MEAN	14.32		15.21		22.30	
HIGHEST ANNUAL MEAN					80.2	1984
LOWEST ANNUAL MEAN					7.76	1992
HIGHEST DAILY MEAN	66	Apr 24	68	Apr 26	656	May 17 1984
LOWEST DAILY MEAN	7.0	Jan 5	6.7	Aug 30	4.1	Jul 30 1992
ANNUAL SEVEN-DAY MINIMUM	7.1	Jan 15	6.7	Sep 1	4.5	Jul 28 1992
MAXIMUM PEAK FLOW			82	Apr 25	678	May 15 1984
MAXIMUM PEAK STAGE			4.46	Apr 25	6.46	May 15 1984
ANNUAL RUNOFF (AC-FT)	10370		11010		16160	
10 PERCENT EXCEEDS	38		39		50	
50 PERCENT EXCEEDS	7.9		7.7		9.2	
90 PERCENT EXCEEDS	7.3		6.8		7.0	

10329000 LITTLE HUMBOLDT RIVER NR PARADISE VALLEY

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1974, BY WATER YEAR (WY)

MEAN	7.73	8.44	9.51	20.1	26.0	38.2	74.4	64.9	30.5	9.58	7.19	7.37
MAX	13.8	15.2	25.9	194	86.5	178	456	268	125	33.2	11.1	12.0
(WY)	1926	1928	1965	1969	1952	1972	1952	1952	1952	1952	1922	1923
MIN	5.65	5.68	5.50	5.75	6.69	8.85	11.1	9.39	6.54	5.58	5.48	5.57
(WY)	1967	1967	1967	1962	1955	1955	1955	1924	1966	1959	1967	1951

SUMMARY STATISTICS	WATER YEARS 1922 - 1974		
ANNUAL MEAN	25.6		
HIGHEST ANNUAL MEAN	88.6		1952
LOWEST ANNUAL MEAN	8.53		1954
HIGHEST DAILY MEAN	2000	Jan 21	1969
LOWEST DAILY MEAN	4.0	Jan 7	1970
ANNUAL SEVEN-DAY MINIMUM	4.6	Jan 30	1962
INSTANTANEOUS PEAK FLOW	2380	Jan 21	1969
INSTANTANEOUS PEAK STAGE	8.40	Jan 21	1969
ANNUAL RUNOFF (AC-FT)	18510		
10 PERCENT EXCEEDS	61		
50 PERCENT EXCEEDS	9.2		
90 PERCENT EXCEEDS	6.3		

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'05", long 117°25'01", in SE $^1/_4$ NW $^1/_4$, sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank, 0.6 mi upstream from Humboldt County Recreation Park, and 7 mi northeast of Paradise Valley.

DRAINAGE AREA.--175 mi^2.

PERIOD OF RECORD.--October 1921 to current year.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft above NGVD of 1929, from extension of river-profile map. Prior to October 22, 1946, water-stage recorder at several sites within 400 ft of present site at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor . No diversions above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft^3/s, January 21, 1943, gage height, 11.10 ft, site and datum then in use, on basis of slope area measurement of peak flow; minimum daily, 2.0 ft^3/s, September 1, 1928.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb 20	1530	268	2.33	March 6	1945	*329	*2.56
April 15	0215	255	2.28				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	7.9	14	9.0	8.2	18	134	76	75	12	5.6	5.9
2	6.8	7.9	14	9.4	8.2	18	149	73	71	12	5.6	5.9
3	6.9	7.8	13	10	7.9	15	148	80	61	12	5.4	5.9
4	6.9	7.9	13	9.5	8.1	16	156	87	54	11	5.3	5.8
5	6.9	7.7	e12	9.5	8.1	19	167	91	50	10	5.5	5.9
6	6.9	7.7	e14	9.8	8.7	97	171	93	47	10	5.7	5.9
7	6.9	7.8	13	14	9.3	76	159	102	46	9.5	5.7	6.7
8	6.9	8.0	11	21	8.6	32	143	88	43	8.5	5.7	6.7
9	6.9	8.3	11	20	8.8	25	141	82	40	8.1	5.7	6.4
10	6.9	8.4	11	16	8.8	25	127	77	40	8.0	5.7	6.0
11	6.9	8.2	9.9	14	9.7	24	116	69	38	7.5	5.6	5.9
12	6.9	8.4	9.7	14	9.3	84	118	64	34	6.6	5.3	5.9
13	6.9	8.2	10	11	9.2	57	130	67	33	6.1	5.2	5.9
14	6.9	7.8	13	11	9.1	32	159	74	31	5.9	5.2	5.9
15	6.9	7.6	11	11	9.3	24	210	81	29	6.1	5.2	5.9
16	6.9	7.6	10	10	9.3	22	135	83	28	5.9	5.2	6.5
17	6.9	7.9	11	11	12	20	113	85	26	5.9	5.2	7.3
18	7.0	7.9	11	10	11	17	94	90	26	6.0	5.2	7.7
19	7.1	8.0	11	9.6	11	19	80	97	24	6.9	5.3	7.0
20	7.1	8.0	11	9.6	72	21	70	106	23	7.1	5.3	6.9
21	7.3	8.6	9.8	11	48	51	63	94	25	6.5	5.7	6.6
22	7.3	10	9.5	8.6	58	63	61	78	30	5.9	5.9	6.4
23	7.3	9.0	9.6	8.4	56	66	64	67	26	5.9	5.9	6.4
24	7.5	9.0	8.4	8.9	47	61	69	60	22	5.9	5.9	6.3
25	7.6	10	e8.2	10	38	51	74	55	19	5.7	5.9	6.3
26	7.6	10	e8.6	11	28	51	86	55	19	5.6	5.9	6.5
27	7.6	9.9	e10	9.0	24	68	89	58	17	5.6	5.9	6.9
28	7.6	9.3	9.9	8.5	25	81	80	63	16	5.6	5.9	6.9
29	7.6	14	9.7	7.6	---	98	78	70	15	5.6	5.9	7.2
30	7.6	14	9.6	7.8	---	112	80	74	13	5.6	5.9	7.6
31	7.7	---	9.8	8.1	---	122	---	76	---	5.5	5.9	---
TOTAL	221.0	262.8	336.7	338.3	570.6	1485	3464	2415	1021	228.5	173.3	193.1
MEAN	7.129	8.760	10.86	10.91	20.38	47.90	115.5	77.90	34.03	7.371	5.590	6.437
MAX	7.7	14	14	21	72	122	210	106	75	12	5.9	7.7
MIN	6.8	7.6	8.2	7.6	7.9	15	61	55	13	5.5	5.2	5.8
MED	6.9	8.1	11	10	9.3	32	117	77	30	6.1	5.7	6.4
AC-FT	438	521	668	671	1130	2950	6870	4790	2030	453	344	383

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2002, BY WATER YEAR (WY)

MEAN	7.771	9.550	12.07	19.81	31.59	55.60	88.85	111.1	55.62	11.94	5.919	6.161
MAX	13.8	19.6	70.4	149	291	219	441	500	319	50.1	13.2	9.00
(WY)	2001	1982	1965	1943	1986	1986	1952	1984	1983	1983	1983	1984
MIN	4.97	5.10	5.00	5.87	7.14	9.83	14.0	14.7	6.43	4.65	3.64	4.20
(WY)	1932	1932	1931	1937	1929	1977	1931	1931	1931	1931	1981	1937

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1922 - 2002	
ANNUAL TOTAL	4726.2		10709.3			
ANNUAL MEAN	12.95		29.34		34.63	
HIGHEST ANNUAL MEAN					108	1984
LOWEST ANNUAL MEAN					8.18	1931
HIGHEST DAILY MEAN	57	Apr 28	210	Apr 15	2500	Jan 21 1943
LOWEST DAILY MEAN	4.3	Aug 29	5.2	Aug 13	2.0	Sep 1 1928
ANNUAL SEVEN-DAY MINIMUM	4.5	Aug 28	5.2	Aug 12	2.0	Sep 1 1928
MAXIMUM PEAK FLOW			329	Mar 6	9000	Jan 21 1943
MAXIMUM PEAK STAGE			2.56	Mar 6	11.10	Jan 21 1943
ANNUAL RUNOFF (AC-FT)	9370		21240		25080	
10 PERCENT EXCEEDS	36		82		97	
50 PERCENT EXCEEDS	7.5		9.9		10	
90 PERCENT EXCEEDS	5.4		5.9		5.6	

e Estimated

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'33", long 118°12'12", in NW$^1/_4$ SE$^1/_4$, sec.25, T.33 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank, 1 mi upstream from Callahan bridge, 4 mi northwest of Imlay, and at mi 75.00 above Derby Road bridge.

DRAINAGE AREA.--15,504 mi^2.

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year.

REVISED RECORDS.--WSP 1714: Drainage area; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,130 ft above NGVD of 1929, from Geological Survey vertical-angle bench mark. Prior to April 28, 1945, at site 1 mi downstream at different datum. April 28, 1945, to August 20, 1947, at present site at datum 1 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Humboldt-Lovelock Irrigation, Light and Power Co.'s feeder canal diverts water at times from river above station to Pitt-Taylor Reservoirs. Flow affected by many diversions above station for irrigation. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft^3/s, May 27, 1984, gage height, 13.20 ft; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 437 ft^3/s, June 19, gage height, 5.45 ft; minimum daily, 0.75 ft^3/s, October 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.83	6.2	28	e28	45	107	e160	108	195	226	36	10
2	0.97	6.2	23	e25	51	112	e168	109	184	228	34	10
3	1.4	6.2	25	e23	56	115	e175	104	140	214	34	9.9
4	1.1	6.3	27	e22	59	116	e180	98	128	197	32	9.6
5	1.4	6.6	30	e20	68	115	e160	96	127	184	31	9.1
6	0.75	7.8	27	e22	54	115	e140	95	127	173	29	8.7
7	1.1	8.5	25	e26	60	116	e150	113	133	162	28	9.1
8	1.5	8.6	24	34	47	114	e162	121	133	151	27	9.8
9	2.1	8.3	24	36	46	115	e168	87	116	117	26	9.5
10	2.0	8.2	23	44	51	122	e150	84	78	91	25	9.1
11	2.6	8.2	30	47	45	124	e100	95	65	82	25	8.7
12	2.9	8.1	27	47	42	121	e75	84	66	93	23	8.7
13	3.1	8.5	22	e44	46	118	67	74	170	122	22	8.7
14	3.4	9.3	19	e40	49	118	64	74	288	111	20	8.6
15	3.5	10	19	e34	51	121	65	137	343	103	19	8.4
16	3.7	12	17	32	54	129	72	e164	237	97	18	8.7
17	3.7	14	29	e32	59	134	82	e245	250	92	18	8.8
18	4.5	15	26	e33	64	137	153	e260	310	90	16	8.6
19	4.0	15	24	e28	66	142	165	e260	415	86	16	8.4
20	3.8	15	18	e26	76	143	164	e240	366	83	15	8.2
21	4.5	17	16	e27	79	143	160	e250	346	80	14	7.8
22	4.4	19	e14	e30	80	e145	155	e250	344	77	14	7.7
23	4.5	20	e12	e29	79	e140	154	e260	420	74	14	7.6
24	4.9	22	e11	30	88	e140	161	e300	395	68	13	7.5
25	4.6	24	e11	32	87	137	187	e260	345	60	13	7.3
26	4.5	24	e14	35	86	133	163	e255	309	53	12	7.5
27	4.8	24	e12	41	90	127	122	e253	285	49	11	7.6
28	5.5	31	e18	e45	100	127	141	e235	275	44	11	7.8
29	5.3	40	e22	e46	---	135	128	227	251	41	11	8.2
30	5.7	29	e23	33	---	149	104	225	238	38	11	8.5
31	6.2	---	e27	37	---	153	---	208	---	37	11	---
TOTAL	103.25	438.0	667	1028	1778	3963	4095	5371	7079	3323	629	258.1
MEAN	3.331	14.60	21.52	33.16	63.50	127.8	136.5	173.3	236.0	107.2	20.29	8.603
MAX	6.2	40	30	47	100	153	187	300	420	228	36	10
MIN	0.75	6.2	11	20	42	107	64	74	65	37	11	7.3
AC-FT	205	869	1320	2040	3530	7860	8120	10650	14040	6590	1250	512

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2002, BY WATER YEAR (WY)

MEAN	42.19	62.42	89.80	120.2	186.4	384.7	551.5	622.0	693.7	459.5	117.5	43.04
MAX	301	412	685	779	991	1991	4489	6223	5355	2340	936	292
(WY)	1985	1985	1984	1984	1984	1986	1984	1984	1984	1984	1984	1984
MIN	0.000	0.000	0.000	0.000	0.000	33.7	45.8	16.5	1.76	0.75	0.000	0.000
(WY)	1936	1936	1936	1940	1941	1955	1955	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1935 - 2002	
ANNUAL TOTAL	18286.77		28732.35			
ANNUAL MEAN	50.10		78.72		277.8	
HIGHEST ANNUAL MEAN					2017	1984
LOWEST ANNUAL MEAN					26.0	1955
HIGHEST DAILY MEAN	193	Jun 7	420	Jun 23	9190	May 27 1984
LOWEST DAILY MEAN	0.00	Aug 23	0.75	Oct 6	0.00	Jun 1 1935
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 23	1.1	Oct 1	0.00	Jun 1 1935
MAXIMUM PEAK FLOW			437	Jun 19	9270	May 27 1984
MAXIMUM PEAK STAGE			5.45	Jun 19	13.20	May 27 1984
ANNUAL RUNOFF (AC-FT)	36270		56990		201300	
10 PERCENT EXCEEDS	147		196		704	
50 PERCENT EXCEEDS	30		44		97	
90 PERCENT EXCEEDS	0.99		7.0		10	

e Estimated

10334500 RYE PATCH RESERVOIR NEAR RYE PATCH, NV

LOCATION--Lat 40°28'15", long 118°18'24", in NE $^1/_4$ NE $^1/_4$ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, at control works on east side of Rye Patch Dam on Humboldt River, and 2 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi^2, approximately.

PERIOD OF RECORD.--February 1936 to current year.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Staff gage on dam read daily. Datum of gage is above sea level (Southern Pacific Railroad datum).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began February 20, 1936. Capacity, 194,300 acre-ft between elevations, 4,072.5 ft, sill of trashrack structure, and 4,136.0 ft, top of spillway gates (since June 1976). Dead storage negligible. Elevation of spillway (gate sill) is 4,119 ft. Figures given herein represent usable contents and are based on capacity table No. 2, developed by Bureau of Reclamation, in use since October 1, 1971. Water is used for irrigation in the Lovelock area. See schematic diagram of Humboldt River Basin.

COOPERATION.--Records of daily elevation and storage furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 200,400 acre-ft, June 9, 1998, elevation, 4,136.5 ft; no contents, August 7-11, 1955, May 12 to June 13, 1961, July 17, 1992, and August 11-13, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 29,040 acre-ft, June 25, elevation, 4,114.3 ft; minimum observed, 9,900 acre-ft, September 15, elevation, 4,104.4 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,072	0	4,095	3,460	4,120	53,200
4,075	10	4,100	6,340	4,125	82,700
4,080	70	4,105	10,480	4,130	123,200
4,085	370	4,110	17,000	4,135	182,400
4,090	1,510	4,115	31,700	4,140	244,400

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13150	13150	---	13780	17000	19960	27900	26500	21700	26150	19720	11420
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	13780	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	31700	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	20200	---	---	---	9900
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	29040	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	27550	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	11860	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'03", long 118°18'24", in SE $^1/_4$ NE $^1/_4$ sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank, 1,100 ft downstream from Rye Patch Dam, 1.5 mi northwest of Rye Patch, and at mi 49.45 above Derby Road bridge.

DRAINAGE AREA.--16,002 mi^2.

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area; WDR-NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,070. ft, above NGVD of 1929 from topographic map. Prior to October 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. October 1, 1935, to October 13, 1945, water-stage recorder at site 0.5 mi upstream at different datum. October 14, 1945, to April 9, 1991, water-stage recorder at site 75 ft downstream at datum 5.00 ft higher. April 9, 1991 to September 30, 1998, water-stage recorder at site 100 ft upstream on opposite bank, at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Rye Patch Reservoir (station 10334500) since 1936. Records not adjusted for storage. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,050 ft^3/s, May 12, 1897, gage height, 12.0 ft, (datum then in use); maximum discharge after dam completed, 7,960 ft^3/s, May 28, 1984, gage height, 13.65 ft (datum then in use); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 591 ft^3/s, July 1, gage height, 7.15 ft; minimum daily, 0.07 ft^3/s, September 18, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.42	0.41	0.16	0.15	0.21	0.29	0.45	318	59	576	117	108
2	0.36	0.44	0.17	0.23	0.23	0.24	0.41	275	98	552	130	108
3	0.36	0.48	0.13	0.16	0.26	0.28	0.49	288	67	540	170	109
4	0.40	0.50	0.12	0.14	0.24	0.27	0.55	242	106	400	217	109
5	0.40	0.45	0.10	0.18	0.28	0.27	0.61	288	88	302	289	50
6	0.50	0.41	0.09	0.19	0.31	0.32	0.54	351	42	275	339	28
7	0.54	0.35	0.09	0.17	0.38	0.39	0.57	394	6.0	263	411	28
8	0.56	0.29	0.10	0.17	0.28	0.31	0.69	461	38	249	401	41
9	0.55	0.30	0.08	0.16	0.37	0.30	0.76	430	49	343	327	58
10	0.58	0.22	0.10	0.19	0.38	0.29	0.91	390	21	332	307	91
11	0.61	0.22	0.10	0.20	0.39	0.33	229	329	13	254	356	106
12	0.66	0.31	0.10	0.24	0.34	0.34	122	330	44	185	362	140
13	0.85	0.28	0.10	0.28	0.38	0.26	4.5	355	44	62	303	140
14	0.87	0.22	0.09	0.26	0.32	0.23	115	343	68	29	180	64
15	0.94	0.23	0.10	0.25	0.33	0.27	195	366	100	29	137	0.13
16	0.94	0.28	0.13	0.25	0.37	0.27	245	353	100	29	148	0.11
17	0.90	0.24	0.12	0.22	0.39	0.30	228	298	132	29	125	0.09
18	0.94	0.19	0.13	0.22	0.32	0.27	202	252	182	30	116	0.07
19	1.1	0.17	0.11	0.24	0.45	0.26	219	232	135	30	81	0.08
20	1.1	0.15	0.11	0.29	0.31	0.22	193	149	110	31	60	0.09
21	1.2	0.14	0.11	0.33	0.28	0.23	157	138	93	94	52	0.10
22	1.2	0.11	0.10	0.25	0.30	0.27	181	166	86	85	57	0.13
23	1.2	0.10	0.13	0.22	0.29	0.25	262	172	110	50	24	0.13
24	0.93	0.17	0.13	0.21	0.30	0.25	252	159	132	80	33	0.15
25	0.92	0.12	0.14	0.21	0.23	0.26	291	129	203	119	58	0.15
26	1.1	0.10	0.13	0.26	0.30	0.33	316	120	340	97	58	0.20
27	1.4	0.10	0.13	0.22	0.30	0.35	311	121	486	83	58	0.60
28	0.98	0.14	0.13	0.24	0.26	0.34	353	81	564	164	66	0.13
29	0.92	0.15	0.14	0.21	---	0.42	369	50	522	194	108	0.15
30	0.85	0.12	0.18	0.22	---	0.47	338	54	544	166	108	0.17
31	0.57	---	0.20	0.21	---	0.50	---	64	---	155	108	---
TOTAL	24.85	7.39	3.75	6.77	8.80	9.38	4588.48	7698	4582.0	5827	5306	1182.48
MEAN	0.802	0.246	0.121	0.218	0.314	0.303	152.9	248.3	152.7	188.0	171.2	39.42
MAX	1.4	0.50	0.20	0.33	0.45	0.50	369	461	564	576	411	140
MIN	0.36	0.10	0.08	0.14	0.21	0.22	0.41	50	6.0	29	24	0.07
AC-FT	49	15	7.4	13	17	19	9100	15270	9090	11560	10520	2350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2002, BY WATER YEAR (WY)

MEAN	110.8	36.81	43.23	68.10	63.56	164.3	447.5	640.2	557.9	453.7	267.1	156.6
MAX	430	366	979	1310	1142	2206	3579	6215	4981	1983	990	716
(WY)	1999	1999	1984	1984	1984	1983	1984	1984	1984	1984	1995	1995
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.14	104	22.8	1.54	0.42	0.12
(WY)	1936	1936	1936	1936	1936	1937	1991	1955	1961	1991	1961	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1936 - 2002	
ANNUAL TOTAL	37756.86		29244.90			
ANNUAL MEAN	103.4		80.12		251.7	
HIGHEST ANNUAL MEAN					2004	1984
LOWEST ANNUAL MEAN					29.2	1955
HIGHEST DAILY MEAN	697	May 1	576	Jul 1	7840	May 29 1984
LOWEST DAILY MEAN	0.08	Dec 9	0.07	Sep 18	0.00	Oct 1 1935
ANNUAL SEVEN-DAY MINIMUM	0.09	Dec 5	0.09	Dec 5	0.00	Oct 1 1935
MAXIMUM PEAK FLOW			591	Jul 1	7960	May 28 1984
MAXIMUM PEAK STAGE			7.15	Jul 1	13.65	May 28 1984
ANNUAL RUNOFF (AC-FT)	74890		58010		182300	
10 PERCENT EXCEEDS	316		302		578	
50 PERCENT EXCEEDS	3.6		0.58		107	
90 PERCENT EXCEEDS	0.13		0.13		0.15	

10335000 HUMBOLDT RIVER AT RYE PATCH

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 1932, BY WATER YEAR (WY)

MEAN	39.9	42.5	67.4	92.5	163	301	476	527	446	517	159	53.0
MAX	167	192	259	296	672	1319	1757	2692	2113	2003	605	248
(WY)	1908	1908	1900	1914	1914	1901	1907	1897	1897	1899	1899	1907
MIN	.000	.000	.000	.000	.000	16.3	7.83	13.2	.033	.000	.000	.000
(WY)	1931	1931	1931	1931	1931	1920	1920	1905	1920	1920	1931	1931

SUMMARY STATISTICS	WATER YEARS 1896 - 1932		
ANNUAL MEAN	228		
HIGHEST ANNUAL MEAN	702		1907
LOWEST ANNUAL MEAN	8.57		1920
HIGHEST DAILY MEAN	3050	May 12	1897
LOWEST DAILY MEAN	.00	Jun 19	1905
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 22	1905
INSTANTANEOUS PEAK FLOW	3050	May 12	1897
INSTANTANEOUS PEAK STAGE	12.0	May 12	1897
ANNUAL RUNOFF (AC-FT)	165100		
10 PERCENT EXCEEDS	681		
50 PERCENT EXCEEDS	90		
90 PERCENT EXCEEDS	4.0		

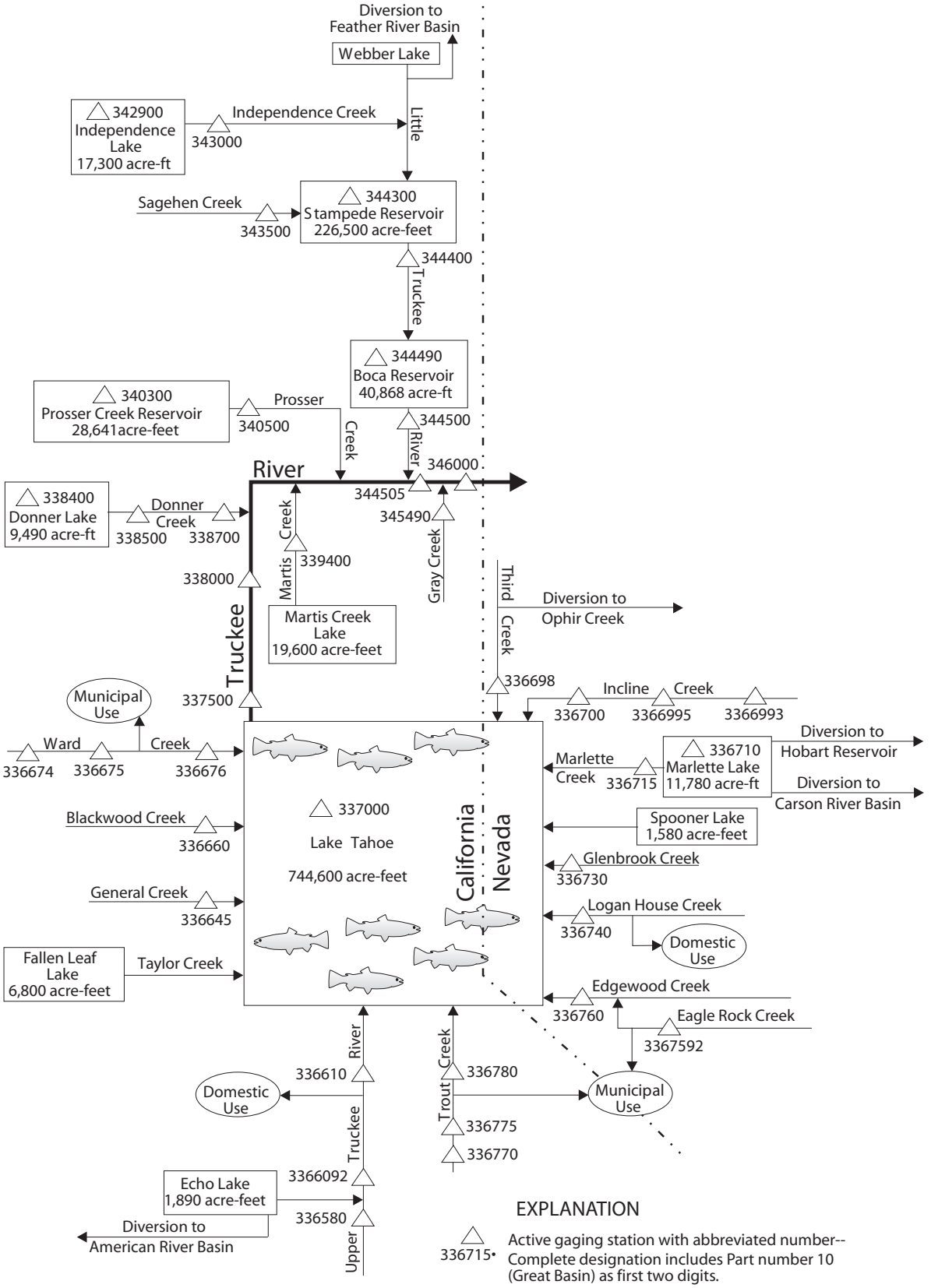


Figure 25. Schematic diagram of flow system and gaging stations in the Pyramid and Winnemucca Lakes basin upstream of station 346000.

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE $^1/_4$ NW $^1/_4$ sec.3 T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi north of the Pyramid, 1.6 mi northeast of Anaho Island, and 13 mi northwest of Nixon.

DRAINAGE AREA.--2,720 mi^2.

PERIOD OF RECORD.--1867-1925 (occasional elevations in some years), June 1926 to current year (occasional elevations in each year).

REVISED RECORDS.--WSP 880: 1934-38 (bench mark). WSP 1090: 1926 (M). WDR NV-67-1: 1966.

GAGE.--Nonrecording gage. Datum of gage is 3,940.29 ft, above NGVD of 1929 (U.S. Coast and Geodetic Survey Bench Mark N-21), supplementary adjustment of 1956. Prior to January 1934, elevations were determined from Bench Mark No. 1 of General Lake Office using elevation of 3,882.26 ft, adjustment of 1912; to convert these records to present datum, add 0.81 ft. January 1934 to September 1955, elevations were determined from Bench Mark N-21 using elevations of 3,940.04 ft, datum of 1929; to convert these records to present datum, add 0.25 ft. October 1955 to August 1968, nonrecording gages along southwest lake shore at present datum, September 1986 to current year, nonrecording gage along east lake shore near the Pyramid.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir (station 10312100). Elevations are given to the nearest 0.1 ft and contents to four significant figures to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published in WSP 1314 for 1867 and 1871 (3,875.9 and 3,884.9 ft, respectively) have been revised to 3,867 and 3,876 ft, respectively, on the basis the data and conclusions of Hardman and Venstrom (American Geophysical Union Transactions, 1941, p. 71-90), and Harding (University of California Archives Report 16, 1965). See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,877.9 ft, in 1891; minimum observed, 3,783.9 ft, February 6, and March 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 23,310,000 acre-ft, October 2, elevation 3,814.0 ft; minimum contents observed, 23,008,000 acre-ft, September 30, elevation, 3,811.4 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30	3814.0	23,310,000	--
October 31	3813.5	23,255,000	-55,000
November 30	3813.4	23,244,000	-11,000
December 31	3813.2	23,222,000	-22,000
CALENDAR YEAR 2001	--	--	-366,000
January 31	3813.2	23,222,000	0
February 29	3813.1	23,211,000	-11,000
March 31	3813.1	23,211,000	0
April 30	3813.2	23,222,000	+11,000
May 31	3813.1	23,211,000	-11,000
June 30	3812.9	23,188,000	-23,000
July 31	3812.5	23,140,000	-48,000
August 31	3812.0	23,080,000	-60,000
September 30	3811.4	23,008,000	-72,000
WATER YEAR 2002	--	--	-302,000

NOTE.--Monthend elevations are interpolated from readings made during the year.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°47'47", long 120°01'05", in NW $^1/_4$ SW $^1/_4$ sec.17, T.11 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 0.25 mi upstream from bridge, 0.5 mi upstream of confluence of Big Meadow and Grass Lake Creeks, 0.5 mi west of State Highway 89, and 4.0 mi south of Meyers, California.

DRAINAGE AREA.--14.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,490 ft aboveNGVD of 1929, from topographic map. Prior to October 1, 1991, at site 1,200 ft downstream at datum 2.54 higher.

REMARKS.--No estimated daily discharges. Records fair. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,010 ft^3/s, January 2, 1997, gage height, 11.31 ft; minimum daily, 0.76 ft^3/s, September 1, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 14	1730	247	7.44	May 30	2000	*325	*7.89
May 18	1915	256	7.50				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.9	5.9	12	7.7	16	43	46	195	24	4.8	1.8
2	1.6	2.9	7.6	13	7.3	14	53	48	158	23	4.5	1.7
3	1.6	2.8	18	15	6.9	13	77	67	142	20	4.3	1.7
4	1.6	2.8	10	12	6.9	14	101	94	143	18	4.2	1.7
5	1.6	2.5	6.9	12	6.7	13	93	118	152	17	4.1	1.7
6	1.5	3.0	6.2	43	6.4	16	75	132	144	16	4.0	1.9
7	1.5	3.5	5.5	34	6.4	18	72	144	133	16	3.9	2.0
8	1.6	3.6	5.3	24	7.0	16	82	131	116	13	3.7	1.9
9	1.5	3.4	5.5	20	6.2	12	92	122	91	13	3.5	1.7
10	1.5	2.9	5.4	17	6.0	12	89	108	78	12	3.3	1.6
11	1.5	3.1	5.2	15	6.2	12	100	94	77	12	3.2	1.7
12	1.4	3.6	5.0	15	6.4	13	110	110	79	12	3.0	1.4
13	1.5	3.7	4.9	14	6.5	12	118	130	87	13	2.7	1.5
14	1.5	3.2	5.8	14	6.5	12	166	150	83	11	2.6	1.5
15	1.3	2.7	5.4	13	6.4	12	120	158	75	9.8	2.5	1.4
16	1.4	3.0	5.0	12	6.5	12	75	159	69	9.0	2.5	1.4
17	1.3	2.6	5.4	12	7.1	12	62	181	65	8.8	2.3	1.4
18	1.3	2.6	5.4	11	7.4	11	50	203	65	9.2	2.3	1.4
19	1.2	2.4	5.3	11	9.7	11	45	172	63	9.4	2.2	1.4
20	1.2	2.4	5.6	10	18	11	41	129	61	8.5	2.2	1.4
21	1.2	17	5.6	9.9	16	13	42	94	55	7.8	2.2	1.3
22	1.4	29	5.6	9.5	17	14	47	78	49	7.1	2.2	1.3
23	1.7	9.4	5.9	9.0	19	15	57	72	45	6.7	2.2	1.3
24	1.7	20	5.7	8.7	16	14	71	82	42	6.2	2.1	1.3
25	1.8	13	5.6	8.5	14	12	93	105	40	6.1	2.1	1.3
26	1.7	8.6	5.9	8.4	14	12	99	123	39	5.9	2.1	1.3
27	1.7	7.1	6.2	8.6	15	13	77	131	35	5.7	2.1	1.4
28	1.5	6.6	6.6	8.0	15	16	63	138	31	5.5	2.0	1.3
29	1.6	6.4	8.2	8.1	---	20	63	165	29	5.2	2.0	1.3
30	3.4	6.1	10	8.0	---	29	53	202	27	5.0	1.9	1.4
31	3.3	---	15	8.0	---	36	---	208	---	4.9	1.9	---
TOTAL	50.2	182.8	209.6	423.7	274.2	456	2329	3894	2468	340.8	88.6	45.4
MEAN	1.62	6.09	6.76	13.7	9.79	14.7	77.6	126	82.3	11.0	2.86	1.51
MAX	3.4	29	18	43	19	36	166	208	195	24	4.8	2.0
MIN	1.2	2.4	4.9	8.0	6.0	11	41	46	27	4.9	1.9	1.3
AC-FT	100	363	416	840	544	904	4620	7720	4900	676	176	90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	3.17	5.91	8.75	17.1	11.8	20.4	53.2	135	118	45.0	9.19	3.56
MAX	5.72	20.7	37.4	120	39.2	41.3	102	216	329	220	45.9	10.4
(WY)	1999	1997	1997	1997	1996	1995	1997	1996	1995	1995	1995	1998
MIN	1.62	2.13	1.69	1.57	2.95	6.64	15.1	51.2	12.1	3.40	1.64	1.30
(WY)	2002	1991	1991	1991	2001	1991	1991	1992	1992	1994	1994	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	6132.8		10762.3			
ANNUAL MEAN	16.8		29.5		36.9	
HIGHEST ANNUAL MEAN					72.3	1995
LOWEST ANNUAL MEAN					14.1	1994
HIGHEST DAILY MEAN	181	May 15	208	May 31	1130	Jan 2 1997
LOWEST DAILY MEAN	1.2	Oct 19	1.2	Oct 19	0.76	Sep 1 1990
ANNUAL SEVEN-DAY MINIMUM	1.3	Oct 15	1.3	Oct 15	0.97	Aug 29 1990
MAXIMUM PEAK FLOW			325	May 30	2010	Jan 2 1997
MAXIMUM PEAK STAGE			7.89	May 30	11.31	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	12160		21350		26720	
10 PERCENT EXCEEDS	45		99		118	
50 PERCENT EXCEEDS	3.3		8.8		8.0	
90 PERCENT EXCEEDS	1.6		1.6		2.1	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in record due to loss of communication between stream and sensor. Water temperature data for September 1997 are unpublished but are available from U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 17.0°C, July 2, 3, 2001, July 14, 2002; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 17.0°C, July 14; minimum, freezing point, many days January to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
03...	1510	1.8	--	--	--	--	56	22.5	10.4
NOV									
06...	1230	3.1	--	--	--	--	54	13.5	5.3
DEC									
07...	1315	6.3	604	10.7	95	7.0	38	2.5	.8
JAN									
08...	1405	2.4	--	--	--	--	27	5.5	2.5
FEB									
05...	1350	7.3	--	--	--	--	36	4.5	.3
MAR									
05...	1310	12	603	11.1	101	--	21	12.5	1.9
28...	1735	16	--	--	--	--	26	6.0	2.7
APR									
02...	1515	45	--	--	--	--	22	11.5	4.0
12...	1750	125	--	--	--	--	18	8.0	4.4
25...	1425	77	--	--	--	--	21	14.5	5.4
MAY									
09...	1635	113	--	--	--	--	22	10.0	6.2
15...	1715	157	--	--	--	--	20	14.5	6.8
17...	1025	146	--	--	--	--	21	19.0	4.7
28...	1400	104	--	--	--	--	22	20.5	9.0
31...	1110	160	--	--	--	--	20	26.0	6.9
JUN									
04...	1525	128	601	8.6	100	6.3	20	23.5	11.2
JUL									
03...	1445	20	--	--	--	--	28	23.5	14.2
AUG									
12...	1715	2.6	604	8.1	101	--	43	22.5	14.5
SEP									
12...	1525	1.7	--	--	--	--	54	22.0	9.6

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
03...	.003	.16	.002	.025	.013	98	1	<.01
NOV								
06...	<.003	.10	.003	.019	.013	113	3	.03
DEC								
07...	.003	.29	.008	.012	.006	121	1	.02
JAN								
08...	.004	.20	.007	.015	.003	88	2	.01
FEB								
05...	<.003	.13	.018	.013	.005	98	1	.02
MAR								
05...	.004	.18	.024	.010	.004	93	1	.03
28...	.003	.13	.007	.009	.004	149	2	.09
APR								
02...	.003	.21	.006	.011	.003	107	3	.36
12...	<.003	.22	.007	.014	.003	420	6	2.0
25...	<.003	.21	.007	.013	.003	80	2	.42
MAY								
09...	<.003	.26	.009	.015	.004	135	4	1.2
15...	<.003	.16	.006	.022	.005	175	5	2.1
17...	<.003	.17	.012	.025	.005	161	6	2.4
28...	<.003	.20	.009	.018	.005	262	3	.84
31...	<.003	.06	.011	.041	.005	212	12	5.2
JUN								
04...	<.003	.13	.003	.018	.006	101	6	2.1
JUL								
03...	<.003	.12	.004	.025	.011	72	2	.11
AUG								
12...	.003	.26	.017	.031	.020	65	1	.01
SEP								
12...	.003	.05	.017	.029	.021	63	1	<.01

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.5	8.5	9.5	5.5	4.5	4.5	0.5	0.5	0.5	2.0	1.5	2.0
2	10.5	8.5	9.5	5.5	4.0	4.5	0.5	0.5	0.5	2.0	1.5	2.0
3	10.5	8.5	9.5	5.0	4.0	4.5	0.5	0.5	0.5	1.5	1.0	1.5
4	10.5	8.5	9.5	5.0	4.0	4.5	0.5	0.5	0.5	1.0	0.5	1.0
5	10.0	8.0	9.0	5.5	4.0	4.5	0.5	0.5	0.5	2.0	0.5	1.5
6	10.0	8.0	9.0	5.0	4.0	4.5	0.5	0.5	0.5	1.5	0.5	1.0
7	9.5	8.0	8.5	4.5	3.5	4.0	0.5	0.5	0.5	2.0	1.0	1.5
8	9.5	8.0	8.5	4.5	3.0	3.5	1.0	0.5	0.5	2.5	1.5	2.0
9	8.5	6.5	7.5	4.0	3.0	3.0	1.0	0.5	1.0	2.0	1.0	1.5
10	7.5	5.5	6.5	3.5	2.5	3.0	1.0	0.5	1.0	1.5	1.0	1.5
11	7.5	6.0	6.5	4.5	3.5	4.0	1.0	0.5	1.0	1.5	0.5	1.0
12	8.0	6.0	7.0	4.5	3.5	4.0	1.0	0.5	1.0	2.0	1.0	1.5
13	7.5	5.5	6.5	3.5	3.0	3.5	1.5	0.5	1.0	1.0	0.5	0.5
14	7.5	5.5	6.5	3.5	3.0	3.5	1.0	0.5	0.5	1.0	0.5	0.5
15	8.0	6.0	7.0	4.0	3.0	3.5	0.5	0.5	0.5	0.5	0.0	0.0
16	8.0	6.5	7.0	4.0	3.5	3.5	1.0	0.5	1.0	0.5	0.0	0.0
17	8.0	6.0	7.0	4.0	3.0	3.5	1.0	0.5	1.0	0.5	0.0	0.0
18	8.0	6.0	7.0	3.5	2.5	3.0	1.0	0.5	1.0	0.5	0.0	0.0
19	7.5	6.0	6.5	3.0	2.0	2.5	1.0	0.5	1.0	0.5	0.0	0.0
20	7.5	6.0	7.0	3.5	3.0	3.0	1.0	0.5	1.0	0.5	0.0	0.5
21	7.5	6.0	6.5	4.0	3.0	3.5	1.0	0.5	1.0	0.5	0.5	0.5
22	7.0	5.5	6.0	3.0	1.0	2.0	1.0	1.0	1.0	0.5	0.0	0.0
23	7.0	6.0	6.0	1.5	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
24	6.5	5.0	6.0	2.0	0.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
25	6.5	5.0	5.5	0.5	0.5	0.5	1.5	0.5	1.0	0.5	0.0	0.5
26	6.5	5.0	5.5	0.5	0.5	0.5	1.5	1.0	1.5	0.5	0.0	0.5
27	6.5	5.5	6.0	0.5	0.5	0.5	2.0	1.5	1.5	0.5	0.0	0.5
28	6.5	5.5	6.0	0.5	0.5	0.5	1.5	1.5	1.5	0.5	0.0	0.0
29	6.5	5.5	6.0	0.5	0.5	0.5	2.0	1.0	1.5	0.0	0.0	0.0
30	6.5	6.0	6.5	0.5	0.5	0.5	2.0	1.0	1.5	0.0	0.0	0.0
31	6.0	5.0	5.5	---	---	---	1.5	1.0	1.5	0.0	0.0	0.0
MONTH	10.5	5.0	7.1	5.5	0.5	2.8	2.0	0.5	0.9	2.5	0.0	0.7

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	1.0	0.0	0.5	4.0	1.0	2.0	4.5	0.5	2.5
2	0.0	0.0	0.0	1.0	0.0	0.5	4.0	1.0	2.0	6.5	1.5	3.5
3	0.0	0.0	0.0	1.0	0.0	0.5	4.0	1.0	2.0	7.0	2.0	4.0
4	0.0	0.0	0.0	1.5	0.0	1.0	4.0	1.0	2.0	7.0	2.0	3.5
5	0.5	0.0	0.0	2.0	0.5	1.5	4.5	1.5	2.5	6.5	1.5	3.5
6	0.5	0.0	0.0	1.5	0.0	1.0	4.5	1.0	2.5	7.0	1.5	3.5
7	0.5	0.0	0.0	0.5	0.0	0.0	4.5	1.5	2.5	6.5	2.0	3.5
8	0.5	0.0	0.0	0.5	0.0	0.0	5.0	1.5	3.0	6.5	1.5	3.0
9	0.5	0.0	0.0	0.5	0.0	0.5	4.5	1.5	2.5	6.5	1.5	3.5
10	0.5	0.0	0.0	1.0	0.0	0.5	5.0	2.0	3.0	5.0	2.0	3.0
11	0.5	0.5	0.5	2.0	0.0	1.0	4.5	2.0	3.0	7.0	2.0	4.0
12	0.5	0.5	0.5	2.0	0.5	1.5	5.0	1.5	3.0	7.0	2.0	4.0
13	1.0	0.5	0.5	1.0	0.0	0.5	5.5	1.5	3.0	7.5	2.5	4.5
14	1.0	0.5	1.0	1.0	0.0	0.5	5.0	2.0	3.0	7.5	2.5	4.5
15	1.5	0.5	1.0	0.0	0.0	0.0	3.0	1.0	1.5	7.5	2.5	4.5
16	1.5	0.5	1.0	0.0	0.0	0.0	2.5	0.5	1.0	8.0	2.5	4.5
17	0.5	0.0	0.5	0.0	0.0	0.0	1.0	0.0	0.5	8.5	3.0	5.0
18	1.0	0.5	0.5	0.5	0.0	0.0	1.5	0.0	0.5	8.0	3.0	5.0
19	1.0	0.5	0.5	1.0	0.0	0.5	3.0	0.5	1.5	7.0	3.5	4.5
20	1.0	0.5	0.5	1.5	0.5	1.0	3.5	0.5	1.5	3.5	1.5	2.5
21	1.5	0.5	1.0	2.0	0.5	1.0	5.0	0.5	2.5	5.0	1.5	3.0
22	2.0	0.5	1.0	2.5	0.5	1.5	6.0	1.0	3.0	7.0	1.0	4.0
23	1.5	1.0	1.5	1.5	0.0	0.5	6.0	1.0	3.0	8.0	2.5	5.0
24	1.5	0.0	1.0	2.0	0.5	1.0	6.0	1.5	3.5	9.0	3.0	5.5
25	2.0	0.0	1.0	2.0	0.0	1.0	5.5	2.0	3.5	8.5	3.5	6.0
26	2.0	0.0	1.0	3.0	0.5	1.5	3.5	2.0	2.5	9.0	3.5	6.0
27	2.0	0.5	1.5	3.5	0.5	2.0	4.5	1.5	2.5	8.5	4.0	6.0
28	2.0	0.0	1.0	3.5	1.0	2.0	4.5	0.5	2.5	10.5	4.0	6.5
29	---	---	---	4.0	1.0	2.0	2.5	1.0	2.0	11.0	4.5	7.0
30	---	---	---	3.5	1.0	2.0	4.5	1.0	2.0	11.0	5.0	7.0
31	---	---	---	3.5	1.0	2.0	---	---	---	11.0	4.5	7.5
MONTH	2.0	0.0	0.6	4.0	0.0	0.9	6.0	0.0	2.3	11.0	0.5	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	5.5	7.0	15.0	10.0	13.0	16.0	11.0	13.5	---	---	---
2	10.0	3.5	6.5	15.0	10.5	13.0	16.5	11.5	13.5	---	---	---
3	10.5	5.0	7.5	14.5	10.0	12.0	15.5	11.0	13.0	---	---	---
4	11.5	5.5	8.0	14.5	9.0	12.0	14.5	10.5	12.0	---	---	---
5	12.0	6.0	8.5	14.5	9.5	12.0	---	---	---	---	---	---
6	12.0	5.5	8.5	14.5	9.5	12.0	---	---	---	---	---	---
7	11.5	5.5	8.0	15.0	10.5	13.0	---	---	---	---	---	---
8	10.5	5.5	7.5	14.5	9.5	12.0	---	---	---	---	---	---
9	8.5	3.5	6.0	15.5	10.0	13.0	---	---	---	---	---	---
10	10.0	4.5	7.0	16.5	11.0	14.0	---	---	---	---	---	---
11	11.0	5.0	8.0	16.0	12.0	14.0	---	---	---	---	---	---
12	12.0	6.0	9.0	15.5	12.5	14.0	---	---	---	---	---	---
13	12.5	7.0	9.5	16.5	12.0	14.0	---	---	---	10.5	8.5	9.5
14	12.0	6.0	9.0	17.0	12.5	14.5	---	---	---	10.5	8.5	9.5
15	12.0	5.5	9.0	16.0	12.0	14.0	---	---	---	11.5	9.0	10.0
16	12.0	6.0	9.0	16.0	11.5	13.5	---	---	---	10.5	8.5	9.5
17	12.5	7.0	9.5	14.0	11.5	13.0	---	---	---	9.5	8.0	8.5
18	13.0	8.0	10.5	12.5	10.5	11.5	---	---	---	10.0	8.0	8.5
19	12.5	7.5	10.0	14.5	9.5	12.0	---	---	---	9.5	7.5	8.5
20	13.0	8.0	10.5	14.0	11.0	13.0	---	---	---	10.0	8.0	9.0
21	12.5	8.0	10.0	15.0	11.5	13.0	---	---	---	10.0	8.0	9.0
22	12.5	7.0	10.0	15.0	10.5	12.5	---	---	---	10.5	8.5	9.0
23	13.5	8.5	11.0	14.0	9.5	12.0	---	---	---	10.5	8.5	9.5
24	13.0	7.5	10.5	15.0	10.0	12.5	---	---	---	10.5	8.5	9.5
25	14.0	9.0	12.0	14.5	9.5	12.0	---	---	---	10.0	8.0	9.0
26	14.0	10.0	12.5	14.0	9.0	11.5	---	---	---	9.5	8.0	8.5
27	14.0	9.0	11.5	15.5	10.5	12.5	---	---	---	9.5	8.0	8.5
28	13.5	9.0	11.5	15.5	11.0	13.0	---	---	---	9.5	8.0	8.5
29	14.0	9.5	11.5	15.5	10.5	13.0	---	---	---	8.5	7.0	7.5
30	14.5	9.0	12.0	16.0	11.0	13.5	---	---	---	8.0	6.0	7.0
31	---	---	---	16.5	11.5	13.5	---	---	---	---	---	---
MONTH	14.5	3.5	9.4	17.0	9.0	12.9	---	---	---	---	---	---

Remark Codes Used in This report:
  < -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°50'55", long 120°01'34", in NE $^1/_4$ NE $^1/_4$ sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 500 ft downstream of U.S. Highway 50 bridge, 1 mi southwest of Meyers, and 7.5 mi upstream of Lake Tahoe.

DRAINAGE AREA.--39.3 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,310 ft above NGVD of 1929, from topographic map. June 1990 to September 5, 1997 at present site, datum 3.00 ft higher.

REMARKS.--Records fair except October 1 through November 22 and estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,120 ft^3/s, January 2, 1997, gage height, 8.95 ft; minimum daily, 1.2 ft^3/s, December 22, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 3	0345	372	6.33	May 18	2245	*486	*6.63
April 14	1930	483	6.62	May 31	2245	416	6.43

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.7	26	33	19	41	79	108	331	51	10	4.6
2	2.7	1.6	e44	36	18	39	96	104	282	47	9.8	4.5
3	2.3	2.2	e39	41	17	37	126	115	236	42	9.7	4.4
4	2.4	3.7	36	34	16	37	170	147	230	37	9.4	4.4
5	2.4	3.4	32	33	16	37	176	176	244	35	8.9	4.5
6	2.8	3.9	31	68	15	45	151	202	242	32	8.7	4.7
7	3.0	5.3	29	66	16	53	145	227	220	30	8.6	4.8
8	3.5	5.3	25	53	18	45	163	220	197	29	8.4	5.0
9	3.7	5.4	24	47	16	41	193	197	159	27	8.4	4.8
10	3.3	5.3	23	43	16	40	194	177	127	26	7.9	4.6
11	3.2	5.7	22	39	18	39	210	158	111	25	7.7	6.4
12	3.0	7.0	21	37	21	41	231	180	105	25	7.6	10
13	3.1	7.7	21	33	22	41	237	215	106	26	7.4	10
14	3.1	6.7	32	29	23	39	317	242	107	24	7.2	11
15	3.1	6.6	22	25	24	39	279	245	113	23	6.9	10
16	3.1	7.1	22	23	25	40	186	258	127	21	6.6	13
17	3.2	7.0	24	23	26	38	154	308	126	21	6.5	13
18	3.4	6.5	23	23	25	36	131	378	123	23	6.4	14
19	3.2	6.6	22	22	33	35	114	349	120	25	6.2	14
20	3.3	6.8	23	22	51	36	104	274	111	21	5.6	13
21	3.0	17	22	21	48	37	100	204	103	20	5.5	12
22	3.2	59	23	21	47	40	104	148	95	18	5.4	12
23	3.6	33	23	20	49	43	115	116	87	15	5.4	12
24	3.3	49	22	20	45	41	129	119	78	14	5.3	15
25	3.0	44	22	20	43	40	156	140	70	14	5.2	15
26	3.3	33	22	20	42	39	180	163	67	13	4.9	13
27	3.6	29	23	21	42	40	154	177	64	13	4.9	12
28	4.2	27	24	21	41	42	133	189	61	12	4.8	13
29	4.7	28	27	21	---	48	132	242	57	12	4.8	12
30	5.6	26	30	17	---	57	120	293	54	11	4.7	11
31	2.4	---	39	20	---	68	---	310	---	11	4.7	---
TOTAL	100.9	450.5	818	952	792	1294	4779	6381	4153	743	213.5	287.7
MEAN	3.25	15.0	26.4	30.7	28.3	41.7	159	206	138	24.0	6.89	9.59
MAX	5.6	59	44	68	51	68	317	378	331	51	10	15
MIN	2.3	1.6	21	17	15	35	79	104	54	11	4.7	4.4
AC-FT	200	894	1620	1890	1570	2570	9480	12660	8240	1470	423	571

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	9.34	16.8	22.0	49.8	38.4	62.7	121	279	232	85.3	17.8	11.1
MAX	22.6	78.5	96.4	328	125	132	206	569	709	452	78.6	37.5
(WY)	1996	1997	1997	1997	1996	1995	1997	1993	1995	1995	1995	1995
MIN	3.25	3.33	3.15	4.37	6.69	28.2	47.2	85.0	20.4	4.81	2.28	2.50
(WY)	2002	1991	1991	1991	1991	1994	1991	1992	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	10957.6		20964.6			
ANNUAL MEAN	30.0		57.4		80.6	
HIGHEST ANNUAL MEAN					169	1995
LOWEST ANNUAL MEAN					26.1	1994
HIGHEST DAILY MEAN	230	May 16	378	May 18	2000	Jan 2 1997
LOWEST DAILY MEAN	1.6	Nov 2	1.6	Nov 2	1.2	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	2.7	Oct 1	2.7	Oct 1	1.8	Dec 20 1990
MAXIMUM PEAK FLOW			486	May 18	5120	Jan 2 1997
MAXIMUM PEAK STAGE			6.63	May 18	8.95	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	21730		41580		58390	
10 PERCENT EXCEEDS	83		177		227	
50 PERCENT EXCEEDS	11		25		24	
90 PERCENT EXCEEDS	3.2		4.4		4.9	

e Estimated

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 20.5°C, July 31, August 6, 2000; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 21.0°C, July 14, but presumably higher during instrument malfunction; minimum, freezing point, many days from December to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
03...	1410	2.0	--	--	--	--	109	23.0	15.1
NOV									
06...	1130	3.7	--	--	--	--	94	--	6.3
DEC									
07...	1050	28	608	--	--	7.2	41	.0	1.3
JAN									
08...	1150	53	--	--	--	--	40	8.0	2.5
FEB									
05...	1125	19	--	--	--	--	73	7.5	.4
20...	1335	51	--	--	--	--	57	10.0	3.1
MAR									
05...	1105	36	610	11.2	102	7.4	44	8.0	2.4
28...	1600	42	--	--	--	--	64	19.0	6.3
APR									
02...	1235	84	--	--	--	--	41	16.0	5.5
12...	1615	206	--	--	--	--	32	9.5	6.5
25...	1250	141	--	--	--	--	30	15.0	5.8
MAY									
09...	1510	159	--	--	--	--	27	12.0	7.7
15...	1545	204	--	--	--	--	27	17.0	8.5
17...	0915	247	--	--	--	--	25	15.5	5.0
28...	1245	153	--	--	--	--	29	21.0	8.4
31...	0940	260	--	--	--	--	23	23.5	7.4
JUN									
04...	1340	199	606	8.8	104	7.2	23	24.5	12.4
JUL									
03...	1320	43	--	--	--	--	39	23.0	16.8
AUG									
12...	1435	7.5	608	8.7	118	6.9	96	27.5	19.0
SEP									
12...	1420	9.1	--	--	--	--	49	24.0	15.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
03...	.003	.19	.006	.015	.004	147	2	.01
NOV								
06...	.004	.08	.008	.009	.004	165	<1	<.01
DEC								
07...	<.003	.11	.008	.006	.001	96	5	.38
JAN								
08...	.004	.24	.008	.010	.001	91	2	.29
FEB								
05...	<.003	.17	.015	.010	.003	155	<1	<.05
20...	<.003	.16	.008	.010	.003	148	2	.28
MAR								
05...	.004	.23	.010	.015	.002	140	<1	<.10
28...	.003	.14	.010	.009	.001	160	3	.34
APR								
02...	<.003	.21	.012	.013	.001	193	5	1.1
12...	.003	.17	.009	.012	.002	185	4	2.2
25...	<.003	.24	.010	.013	.002	150	3	1.1
MAY								
09...	<.003	.28	.008	.012	.002	194	3	1.3
15...	<.003	.15	.005	.017	.003	170	5	2.8
17...	<.003	.12	.011	.021	.004	269	7	4.7
28...	<.003	.16	.008	.016	.003	121	4	1.7
31...	<.003	.06	.011	.023	.004	322	16	11.2
JUN								
04...	.003	.18	.003	.013	.003	138	4	2.1
JUL								
03...	<.003	.14	.006	.021	.004	124	4	.46
AUG								
12...	.003	.14	.007	.015	.004	183	1	.02
SEP								
12...	.003	.14	.039	.010	.002	102	2	.05

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	2.5	1.5	2.0
2	---	---	---	---	---	---	---	---	---	2.5	1.5	2.0
3	---	---	---	---	---	---	---	---	---	2.0	1.0	1.5
4	---	---	---	---	---	---	---	---	---	1.5	0.0	1.0
5	---	---	---	---	---	---	---	---	---	2.5	1.0	1.5
6	---	---	---	---	---	---	---	---	---	2.5	1.0	2.0
7	---	---	---	---	---	---	---	---	---	3.0	1.0	2.0
8	---	---	---	---	---	---	---	---	---	3.0	1.5	2.5
9	---	---	---	---	---	---	---	---	---	2.5	1.0	2.0
10	---	---	---	---	---	---	---	---	---	2.5	1.0	1.5
11	---	---	---	---	---	---	---	---	---	2.5	0.5	1.5
12	---	---	---	---	---	---	---	---	---	2.5	1.5	2.0
13	---	---	---	---	---	---	---	---	---	1.5	0.0	1.0
14	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
15	---	---	---	---	---	---	0.5	0.0	0.0	1.0	0.0	0.5
16	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
17	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
18	---	---	---	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
19	---	---	---	---	---	---	1.0	0.5	0.5	0.5	0.0	0.5
20	---	---	---	---	---	---	0.5	0.0	0.5	0.5	0.5	0.5
21	---	---	---	---	---	---	0.5	0.0	0.5	1.0	0.0	0.5
22	---	---	---	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
23	---	---	---	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
24	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
25	---	---	---	---	---	---	0.5	0.0	0.5	1.0	0.0	0.5
26	---	---	---	---	---	---	1.5	0.5	1.0	1.0	0.0	0.5
27	---	---	---	---	---	---	2.0	1.0	1.5	0.5	0.0	0.5
28	---	---	---	---	---	---	2.0	1.5	1.5	0.5	0.0	0.0
29	---	---	---	---	---	---	2.5	1.5	2.0	0.0	0.0	0.0
30	---	---	---	---	---	---	2.5	1.5	2.0	0.0	0.0	0.0
31	---	---	---	---	---	---	2.5	1.5	2.0	0.5	0.0	0.0
MONTH	---	---	---	---	---	---	---	---	---	3.0	0.0	1.0

PYRAMID AND WINNEMUCCA LAKES BASIN

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA--Continued

WATER-QUALITY RECORDS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	3.0	0.0	1.5	6.5	1.5	3.5	6.0	1.5	3.5
2	0.5	0.0	0.0	3.0	0.0	1.5	6.0	1.5	3.5	8.0	2.5	5.0
3	0.5	0.0	0.0	3.5	0.0	1.5	6.0	1.5	3.5	8.5	3.5	5.5
4	0.5	0.0	0.0	4.0	0.5	2.0	5.5	1.5	3.5	8.0	3.0	5.5
5	0.5	0.0	0.0	4.5	1.0	2.5	5.5	1.5	3.0	8.0	2.5	5.0
6	0.5	0.0	0.5	3.0	0.0	2.0	5.5	1.5	3.5	8.0	2.5	5.0
7	1.0	0.0	0.5	0.5	0.0	0.0	6.0	1.5	3.5	7.5	3.0	5.0
8	1.0	0.0	0.5	1.5	0.0	0.5	6.0	2.0	4.0	7.0	2.0	4.5
9	1.0	0.0	0.5	2.5	0.0	1.0	5.0	2.0	3.5	7.5	3.0	5.0
10	1.5	0.0	0.5	2.0	0.0	1.5	6.0	2.5	4.0	6.5	3.0	4.5
11	3.0	0.5	1.5	4.0	0.5	2.5	6.0	2.5	4.0	8.0	3.0	5.0
12	3.0	0.5	2.0	4.0	2.0	3.0	6.5	2.0	4.0	7.5	3.0	5.5
13	2.5	0.5	1.5	3.5	0.5	2.0	6.5	2.0	4.0	8.5	3.5	5.5
14	3.5	1.5	2.5	3.0	0.0	1.5	7.0	2.5	4.0	8.5	3.5	6.0
15	3.5	1.5	2.5	1.0	0.0	0.0	4.0	1.5	2.5	8.5	3.5	6.0
16	4.0	1.5	2.5	0.5	0.0	0.0	3.5	1.0	2.0	9.5	3.5	6.5
17	2.5	0.5	1.5	1.5	0.0	0.5	2.0	0.5	1.0	10.0	4.5	7.0
18	3.0	0.5	1.5	2.5	0.0	1.0	3.0	0.5	1.5	9.5	4.5	7.0
19	2.0	0.5	1.5	4.0	0.0	2.0	4.5	1.0	2.5	8.0	5.0	6.0
20	3.5	1.0	2.0	5.0	0.5	3.0	5.5	1.0	3.0	5.5	3.5	4.5
21	3.5	0.5	2.0	5.5	1.5	3.0	7.0	1.5	4.0	6.0	3.0	4.5
22	4.0	1.0	2.5	6.0	1.5	3.5	7.5	2.0	4.5	8.0	3.0	5.5
23	3.5	1.5	2.5	3.0	0.0	1.5	7.5	2.5	5.0	9.5	4.0	6.5
24	3.5	0.5	2.0	4.0	1.0	2.5	7.5	2.5	5.0	10.5	4.5	7.5
25	3.5	0.5	2.0	5.0	0.5	2.5	7.0	3.0	5.0	10.0	5.0	7.5
26	4.0	0.5	2.0	6.0	1.5	3.5	5.0	3.0	4.0	10.5	4.5	7.5
27	4.0	1.0	2.5	6.0	1.5	3.5	6.0	2.5	4.0	9.0	5.0	7.5
28	4.0	0.5	2.0	6.5	1.5	4.0	4.5	1.5	3.0	11.0	5.0	8.0
29	---	---	---	7.0	2.0	4.0	3.5	1.0	2.5	12.0	5.5	8.5
30	---	---	---	6.5	1.5	4.0	5.5	1.5	3.5	12.0	6.5	9.0
31	---	---	---	6.5	1.5	3.5	---	---	---	12.5	6.5	9.5
MONTH	4.0	0.0	1.4	7.0	0.0	2.1	7.5	0.5	3.5	12.5	1.5	6.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.0	8.5	9.5	18.5	12.5	15.5	---	---	---	---	---	---
2	11.0	6.5	9.0	18.5	13.0	15.5	---	---	---	---	---	---
3	12.0	8.0	10.0	18.0	12.5	15.0	---	---	---	---	---	---
4	13.0	8.5	11.0	18.0	11.5	14.5	---	---	---	---	---	---
5	14.0	9.5	11.5	18.0	11.5	14.5	---	---	---	---	---	---
6	14.0	9.0	11.5	17.5	12.0	14.5	---	---	---	---	---	---
7	13.5	9.5	11.5	19.0	12.5	15.5	---	---	---	---	---	---
8	12.5	9.0	11.0	18.5	12.0	15.0	---	---	---	---	---	---
9	11.0	7.0	9.0	19.5	12.0	15.5	---	---	---	---	---	---
10	12.0	7.5	9.5	20.5	13.0	16.5	---	---	---	18.0	0.5	8.5
11	13.0	7.5	10.0	19.5	14.0	16.5	---	---	---	18.5	1.5	10.0
12	14.0	8.5	11.0	17.5	14.5	16.0	---	---	---	16.0	5.5	11.0
13	14.5	9.0	11.5	20.0	13.5	16.0	---	---	---	15.5	10.5	13.0
14	14.0	8.5	11.0	21.0	14.5	17.0	---	---	---	15.5	11.0	13.0
15	14.0	8.5	11.5	20.5	14.0	17.0	---	---	---	15.5	11.5	13.0
16	14.5	9.5	12.0	20.0	14.0	16.5	---	---	---	14.0	10.5	12.0
17	15.0	10.5	12.5	18.5	12.5	15.0	---	---	---	14.5	11.0	12.5
18	15.5	11.0	13.0	14.0	12.0	13.0	---	---	---	14.0	10.0	12.0
19	15.0	11.0	13.0	18.5	12.0	15.0	---	---	---	14.5	10.0	12.0
20	16.0	11.5	13.5	19.0	13.0	15.5	---	---	---	15.0	10.0	12.0
21	15.5	11.5	13.5	18.0	13.5	15.5	---	---	---	15.0	10.5	12.5
22	15.5	11.0	13.0	---	---	---	---	---	---	15.0	10.5	12.5
23	16.5	12.0	14.0	---	---	---	---	---	---	15.0	10.5	12.5
24	16.5	11.0	13.5	---	---	---	---	---	---	15.0	10.5	12.5
25	17.5	12.0	14.5	---	---	---	---	---	---	14.5	10.5	12.5
26	17.5	12.5	15.0	---	---	---	---	---	---	14.0	10.0	12.0
27	17.5	12.0	14.5	---	---	---	---	---	---	13.5	10.5	11.5
28	17.5	12.0	14.5	---	---	---	---	---	---	12.0	10.0	11.0
29	17.5	12.0	14.5	---	---	---	---	---	---	12.5	8.5	10.5
30	18.0	12.0	15.0	---	---	---	---	---	---	12.0	8.0	9.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	18.0	6.5	12.2	---	---	---	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.—Lat 38°55'21", long 119°59'26", in NW 1/4 SE 1/4 sec.4, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 200 ft downstream from U.S. Highway 50 Bridge, 1.0 mi northeast of South Lake Tahoe Post Office, and 1.4 mi upstream from Lake Tahoe.

DRAINAGE AREA.—54.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1971 to September 1974, October 1976 to June 1977, October 1977 to June 1978, March 1980 to current year.

GAGE.—Water-stage recorder. Datum of gage is 6,229.04 ft above NGVD of 1929. Prior to April 26, 1984, at datum 2.00 ft higher. Prior to October 19, 1993, at site 200 ft upstream at same datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Two small dams may cause slight regulation at times. Some small diversions for domestic use upstream from station. Echo Lake conduit (station 11434500) diverts from Echo Lake (station 10336608), to South Fork American River Basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,480 ft^3/s, January 2, 1997, gage height, 9.95 ft; minimum daily, 0.01 ft^3/s, September. 6, 2001.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 300 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)‘
April 15	0415	*502	*4.53	June 1	0300	355	3.77
May 19	0400	445	4.25				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	6.2	39	46	e31	63	123	134	312	60	8.1	2.2
2	1.3	5.3	71	44	e31	58	137	126	291	57	7.5	2.0
3	1.7	5.2	e65	60	e31	55	162	137	245	51	6.9	1.9
4	1.3	4.9	e57	54	e31	54	199	163	236	46	6.3	1.9
5	1.5	5.0	e51	40	e31	56	222	195	246	43	5.9	2.2
6	1.3	5.0	e47	85	e32	86	199	214	247	40	5.5	2.4
7	1.6	5.2	e43	98	e32	92	185	242	231	38	4.8	3.0
8	1.7	5.5	e42	76	e32	96	191	243	212	36	4.6	3.5
9	1.9	4.8	e42	65	e32	72	222	225	183	34	4.5	3.1
10	2.0	5.0	42	55	e33	61	220	204	148	32	4.4	2.8
11	1.9	5.8	40	49	e33	59	221	187	126	31	4.2	2.5
12	2.3	8.1	39	44	31	68	239	196	118	30	4.1	6.5
13	2.3	12	37	45	35	70	238	223	115	32	3.9	6.4
14	2.2	9.4	e37	46	23	61	282	249	117	30	3.6	9.3
15	2.6	7.6	e37	44	23	58	344	248	118	28	3.5	7.9
16	2.1	7.6	e37	e43	24	65	229	264	128	26	3.6	9.7
17	2.4	7.2	e37	e42	27	55	198	281	129	26	3.3	15
18	2.1	6.7	e37	e41	26	56	169	347	125	33	3.4	14
19	2.3	6.3	e37	e40	32	50	149	354	124	36	3.2	18
20	2.7	6.3	e37	e39	74	52	138	297	116	28	2.9	13
21	2.4	12	e37	38	73	57	133	240	110	26	2.8	14
22	2.8	99	e37	e36	68	64	128	199	102	24	2.9	12
23	2.8	51	e37	e35	76	70	134	155	95	21	2.8	14
24	3.6	72	e37	e35	69	65	146	144	88	18	3.0	13
25	3.6	70	e37	36	63	60	169	157	81	14	2.6	17
26	3.3	58	e37	35	62	62	205	171	77	12	2.9	14
27	3.5	46	e37	e33	64	68	187	186	75	12	2.5	10
28	3.7	39	e38	e33	64	76	158	206	71	11	2.4	13
29	4.0	e39	e39	e32	---	88	157	228	67	10	2.5	11
30	5.3	e39	e41	e31	---	101	152	280	63	9.4	2.4	9.0
31	10	---	e43	e31	---	112	---	293	---	8.7	2.4	---
TOTAL	83.5	654.1	1294	1431	1183	2110	5636	6788	4396	903.1	123.4	254.3
MEAN	2.694	21.80	41.74	46.16	42.25	68.06	187.9	219.0	146.5	29.13	3.981	8.477
MAX	10	99	71	98	76	112	344	354	312	60	8.1	18
MIN	1.3	4.8	37	31	23	50	123	126	63	8.7	2.4	1.9
AC-FT	166	1300	2570	2840	2350	4190	11180	13460	8720	1790	245	504

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

MEAN	15.14	39.13	49.13	65.96	68.05	106.7	166.1	303.9	254.4	87.16	20.31	12.86
MAX	72.1	225	218	484	307	305	300	567	795	448	102	55.3
(WY)	1983	1984	1982	1997	1986	1986	1982	1982	1983	1995	1983	1983
MIN	2.60	7.36	8.07	8.00	10.5	21.2	64.0	55.3	23.5	4.65	0.51	0.55
(WY)	1989	1991	1991	1991	1991	1977	1977	1977	1992	1994	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1972 - 2002	
ANNUAL TOTAL	13839.60		24856.4			
ANNUAL MEAN	37.92		68.10		101.0	
HIGHEST ANNUAL MEAN					203	1983
LOWEST ANNUAL MEAN					29.2	1988
HIGHEST DAILY MEAN	262	May 16	354	May 19	3150	Jan 2 1997
LOWEST DAILY MEAN	0.00	Sep 6	1.3	Oct 1	0.01	Sep 6 2001
ANNUAL SEVEN-DAY MINIMUM	0.11	Sep 5	1.4	Oct 1	0.11	Sep 5 2001
MAXIMUM PEAK FLOW			502	Apr 15	5480	Jan 2 1997
MAXIMUM PEAK STAGE			4.53	Apr 15	9.95	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	27450		49300		73180	
10 PERCENT EXCEEDS	115		201		272	
50 PERCENT EXCEEDS	17		38		38	
90 PERCENT EXCEEDS	0.36		2.8		6.9	

e Estimated

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-74, 1978, 1980 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1981 to September 1983.
WATER TEMPERATURE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1992, September 1997 to current year.
SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1992.

INSTRUMENTATION.--Water temperature recorder September 1997 to current year, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Interruptions in water temperature record due to instrument problems. Water temperature records represent water temperature at probe within 0.5°C. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.5°C, July 26 and August 10, 2001; minimum, freezing point on many days.
SEDIMENT CONCENTRATION: Maximum daily mean, 416 mg/L, March 4, 1991; minimum daily mean, 0 mg/L, several days during most years.
SEDIMENT LOAD: Maximum daily, 781 tons, March 8, 1986; minimum daily, 0 tons, several days during most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, presumably not measured during instrument problems; minimum, freezing point, many days November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
03...	1650	2.0	--	--	--	--	116	22.5	19.0
NOV									
06...	1440	5.3	--	--	--	--	107	12.5	9.6
DEC									
07...	0845	61	610	--	--	6.4	53	-.3	.2
JAN									
08...	0900	65	--	--	--	--	56	9.0	1.6
FEB									
05...	0850	33	--	--	--	--	88	-5.0	.0
20...	1145	74	--	--	--	--	71	9.0	2.6
MAR									
05...	0900	55	610	11.1	99	7.3	66	5.0	1.5
28...	1410	70	--	--	--	--	77	13.0	8.6
APR									
02...	1020	134	--	--	--	--	51	13.6	4.1
04...	1750	185	--	--	--	--	43	13.0	7.8
12...	1435	229	--	--	--	--	34	8.5	7.7
23...	1150	145	--	--	--	--	40	14.0	6.3
25...	1820	167	--	--	--	--	37	9.5	9.4
26...	1435	194	--	--	--	--	31	6.0	6.6
MAY									
09...	1255	233	--	--	--	--	27	13.5	7.1
15...	1335	243	--	--	--	--	28	18.5	8.8
17...	0725	297	--	--	--	--	25	7.5	5.3
28...	1540	195	--	--	--	--	31	22.5	12.1
31...	0700	313	--	--	--	--	25	--	--
JUN									
01...	0700	329	600	7.7	85	--	21	16.0	9.3
04...	1110	236	606	9.1	105	7.2	24	18.0	11.3
JUL									
08...	1050	38	--	--	--	--	58	21.0	15.8
AUG									
12...	1200	4.3	610	9.6	130	7.5	99	23.5	19.0
SEP									
12...	1655	6.7	--	--	--	--	118	22.0	17.9

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
03...	.004	.27	.012	.020	.004	437	4	.02
NOV								
06...	<.003	.15	.007	.016	.004	363	4	.06
DEC								
07...	.004	.17	.021	.013	.003	228	5	.82
JAN								
08...	.007	.38	.019	.019	.003	286	10	1.8
FEB								
05...	<.003	.28	.019	.015	.003	400	9	.80
20...	<.003	.44	.012	.036	.004	1240	37	7.4
MAR								
05...	.004	.31	.023	.019	.004	547	7	1.0
28...	.003	.33	.012	.017	.003	499	6	1.1
APR								
02...	<.003	.39	.008	.027	.002	591	12	4.3
04...	.003	.80	.007	.034	.003	125	26	13.0
12...	<.003	.23	.009	.032	.003	646	21	13.0
23...	.003	.33	.014	.016	.002	325	6	2.3
25...	.003	.29	.008	.021	.002	337	8	3.6
26...	.003	.39	.008	.021	.002	337	12	6.3
MAY								
09...	<.003	.35	.010	.020	.002	376	10	6.3
15...	<.003	.14	.004	.022	.003	342	15	9.8
17...	<.003	.15	.002	.035	.003	659	28	22.5
28...	<.003	.26	.005	.018	.003	--	5	2.6
31...	.003	.45	.020	.068	.012	994	36	30.4
JUN								
01...	<.003	.14	.006	.038	.003	579	21	18.7
04...	<.003	.12	.002	.021	.003	249	16	10.2
JUL								
08...	.003	.14	.008	.021	.004	232	3	.31
AUG								
12...	<.003	.18	.009	.019	.003	310	3	.03
SEP								
12...	<.003	.15	.007	.019	.003	332	5	.09

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	10.0	14.5	9.5	5.5	7.0	0.0	0.0	0.0	2.5	1.0	2.0
2	19.0	10.5	14.5	10.0	5.5	7.0	0.0	0.0	0.0	3.0	2.0	2.5
3	19.0	10.5	14.5	9.5	5.0	7.0	0.0	0.0	0.0	3.0	1.0	1.5
4	18.0	10.5	14.0	10.0	5.0	7.0	0.0	0.0	0.0	1.5	0.0	0.5
5	18.0	9.5	13.5	11.0	5.5	7.5	0.5	0.0	0.0	3.0	0.0	1.5
6	17.0	10.0	13.5	9.5	5.0	7.0	0.5	0.0	0.0	2.5	1.0	2.0
7	17.0	9.0	13.0	9.0	4.5	6.0	0.0	0.0	0.0	3.0	0.5	1.5
8	15.0	10.0	12.5	8.5	4.0	5.5	0.5	0.0	0.0	3.0	1.5	2.0
9	15.5	7.0	11.0	8.0	3.5	5.0	0.0	0.0	0.0	2.5	0.5	1.5
10	15.0	6.0	10.0	7.5	3.5	5.0	0.0	0.0	0.0	3.0	0.5	1.5
11	13.5	8.0	10.5	7.5	5.0	6.0	0.0	0.0	0.0	3.0	0.0	1.5
12	16.0	6.5	10.5	6.5	4.0	5.0	0.0	0.0	0.0	3.5	0.5	2.0
13	16.0	6.5	10.5	6.0	3.5	4.5	0.5	0.0	0.0	2.0	0.0	1.0
14	14.0	7.0	10.0	6.5	4.5	5.5	0.0	0.0	0.0	1.5	0.0	0.5
15	14.5	7.0	10.0	6.5	5.0	5.5	0.0	0.0	0.0	1.0	0.0	0.5
16	14.0	7.0	10.0	7.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
17	13.0	7.0	10.0	7.0	5.5	6.0	0.0	0.0	0.0	0.5	0.0	0.0
18	15.5	6.5	10.0	6.5	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
19	14.0	6.5	10.0	6.5	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
20	14.0	7.5	10.0	6.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
21	14.5	7.0	10.0	5.5	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0
22	13.5	7.0	9.5	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
23	14.5	8.0	10.0	4.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
24	13.0	6.5	9.0	3.5	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	13.5	6.5	9.0	2.0	0.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0
26	13.5	6.5	9.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
27	12.5	7.0	9.0	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
28	12.5	7.0	9.0	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
29	11.0	7.0	8.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
30	9.5	7.5	8.5	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
31	9.0	6.0	7.5	---	---	---	1.5	0.0	0.5	0.0	0.0	0.0
MONTH	19.0	6.0	10.7	11.0	0.0	4.5	1.5	0.0	0.0	3.5	0.0	0.7

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	5.0	0.0	2.0	9.0	2.5	6.0	7.5	2.5	5.0
2	0.0	0.0	0.0	5.0	0.0	2.0	9.0	2.5	6.0	11.0	3.0	6.5
3	0.0	0.0	0.0	5.5	0.0	2.5	9.5	2.5	6.0	11.5	4.5	8.0
4	0.0	0.0	0.0	6.0	0.5	3.0	8.0	2.5	5.5	10.5	4.5	7.5
5	0.0	0.0	0.0	7.0	1.5	4.0	8.0	2.0	5.0	10.0	4.0	7.0
6	0.0	0.0	0.0	4.0	0.0	2.5	8.0	2.5	5.0	10.0	3.5	7.0
7	0.0	0.0	0.0	0.0	0.0	0.0	8.5	2.5	5.5	10.0	4.0	7.0
8	0.0	0.0	0.0	1.5	0.0	0.5	7.5	3.0	5.5	9.0	3.0	6.0
9	0.0	0.0	0.0	3.0	0.0	1.0	6.5	3.0	5.0	10.0	3.5	6.5
10	0.5	0.0	0.0	3.0	0.0	1.5	9.0	3.0	5.5	9.0	3.5	6.0
11	0.5	0.0	0.0	6.0	0.5	3.0	8.5	3.5	6.0	10.5	3.5	6.5
12	0.5	0.0	0.0	6.5	2.5	4.0	9.0	3.0	6.0	10.0	4.0	7.0
13	0.5	0.0	0.0	4.0	0.5	2.0	9.0	2.5	6.0	10.5	4.5	7.5
14	2.5	0.0	1.0	4.0	0.0	2.0	9.5	3.5	6.5	10.5	4.5	7.5
15	3.5	1.0	2.0	1.5	0.0	0.5	5.5	2.0	3.5	10.5	4.5	7.5
16	4.0	0.5	2.0	2.0	0.0	0.5	5.0	1.0	3.0	11.0	4.5	8.0
17	3.0	0.5	1.5	3.0	0.0	1.0	5.0	0.5	2.0	12.0	5.0	8.5
18	4.0	0.5	2.0	4.5	0.0	2.0	4.0	0.5	2.0	11.5	5.5	8.5
19	3.5	1.5	2.5	7.0	0.0	3.0	6.5	1.0	3.5	9.0	5.5	7.0
20	4.0	1.0	2.0	8.0	1.0	4.5	8.0	1.5	4.5	7.5	4.5	5.5
21	4.5	0.0	2.0	8.0	2.0	5.0	9.5	2.5	6.0	8.5	3.0	5.5
22	5.5	0.5	2.5	8.5	2.0	5.0	10.0	3.5	7.0	10.0	3.5	6.5
23	4.5	1.5	3.0	5.0	1.5	3.5	10.0	4.0	7.0	11.5	5.0	8.0
24	5.5	0.0	2.5	7.0	1.5	4.0	9.0	4.0	7.0	12.0	6.0	9.0
25	5.5	0.5	3.0	6.5	1.0	4.0	10.0	4.5	7.5	12.0	7.0	9.5
26	5.5	0.5	3.0	9.5	2.5	5.5	7.5	4.5	5.5	12.0	6.5	9.5
27	6.0	1.0	3.0	9.5	2.5	6.0	8.0	3.0	5.0	12.0	6.5	9.0
28	6.0	0.5	3.0	9.5	2.5	6.0	6.5	2.0	4.5	13.0	6.5	9.5
29	---	---	---	9.5	3.0	6.0	5.0	1.5	3.5	---	---	---
30	---	---	---	9.5	3.0	6.0	8.0	2.0	4.5	---	---	---
31	---	---	---	9.0	2.5	6.0	---	---	---	---	---	---
MONTH	6.0	0.0	1.2	9.5	0.0	3.2	10.0	0.5	5.2	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	18.0	13.0	15.5
13	---	---	---	---	---	---	---	---	---	18.5	13.0	16.0
14	---	---	---	---	---	---	---	---	---	17.0	13.5	15.5
15	---	---	---	---	---	---	---	---	---	17.0	13.5	15.0
16	---	---	---	---	---	---	---	---	---	15.5	11.0	14.0
17	---	---	---	---	---	---	---	---	---	15.5	12.0	14.0
18	---	---	---	---	---	---	---	---	---	15.5	11.0	13.5
19	---	---	---	---	---	---	---	---	---	15.5	11.0	13.5
20	---	---	---	---	---	---	---	---	---	16.0	11.5	14.0
21	---	---	---	---	---	---	---	---	---	16.5	12.5	14.5
22	---	---	---	---	---	---	---	---	---	17.0	12.5	15.0
23	---	---	---	---	---	---	---	---	---	16.5	13.0	15.0
24	---	---	---	---	---	---	---	---	---	16.5	12.5	14.5
25	---	---	---	---	---	---	---	---	---	15.5	11.5	14.0
26	---	---	---	---	---	---	---	---	---	15.0	11.5	13.5
27	---	---	---	---	---	---	---	---	---	14.5	11.5	12.5
28	---	---	---	---	---	---	---	---	---	14.0	10.0	12.0
29	---	---	---	---	---	---	---	---	---	13.0	10.0	11.5
30	---	---	---	---	---	---	---	---	---	12.5	9.5	11.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

Remark Codes Used in This report:
  < -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°03'07", long 120°07'03", in NE $^1/_4$ NE $^1/_4$ sec.20, T.14 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, on right bank 200 ft upstream from State Highway 89, 0.4 mi upstream from Lake Tahoe, and 1.1 mi north of Meeks Bay.

DRAINAGE AREA.--7.44 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,250.38 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges and January 15 to March 19 which are fair. No known diversion or regulation upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 797 ft^3/s, January 2, 1997, gage height, 7.86 ft (backwater from plugged culvert), from rating curve extended above 180 ft^3/s on basis of computation of flow through culvert; minimum daily, 0.29 ft^3/s, July 28, August 15, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft^3/s or maximum:

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	2200	162	2.36	May 17	2215	1.24	2.18

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.78	0.86	1.7	6.6	e5.0	11	35	24	42	1.9	0.84	1.0
2	0.75	0.84	6.0	6.7	e4.6	e10	40	25	32	1.8	0.84	0.99
3	0.77	0.80	5.1	8.0	e4.5	e9.5	48	32	26	1.6	0.85	1.0
4	0.74	0.73	2.0	6.3	e4.5	9.4	59	48	25	1.5	0.84	1.1
5	0.73	0.73	1.8	6.1	e4.5	9.5	62	62	24	1.4	0.83	1.1
6	0.69	0.76	1.8	13	e4.5	14	54	69	22	1.4	0.87	1.1
7	0.72	0.81	2.5	13	e4.5	15	52	74	19	1.3	0.87	1.1
8	0.70	0.84	2.1	10	e4.5	e12	60	65	16	1.3	0.86	1.1
9	0.71	0.85	2.2	9.8	e4.5	e10	66	58	14	1.2	0.84	1.0
10	0.73	0.90	2.1	9.3	e4.5	10	63	54	12	1.2	0.84	0.97
11	0.78	1.1	2.0	8.1	e4.5	9.3	69	45	11	1.1	0.85	0.95
12	0.79	1.5	2.0	7.5	e4.5	11	75	54	9.5	1.2	0.84	0.94
13	0.78	1.5	1.9	7.9	e4.5	12	72	65	8.7	1.3	0.83	0.94
14	0.78	1.4	2.6	7.9	e4.5	11	95	75	8.2	1.1	0.83	0.92
15	0.80	1.3	2.3	e8.0	e4.5	e10	89	75	7.5	1.0	0.81	0.87
16	0.83	1.2	2.2	e7.8	e4.5	e10	45	73	6.7	0.99	0.83	0.91
17	0.84	1.2	2.7	e7.4	e4.5	e10	34	81	6.0	1.1	0.84	0.88
18	0.78	1.2	2.7	e7.2	7	e10	28	83	5.5	1.3	0.84	0.88
19	0.78	1.3	2.4	e7.0	7.3	e10	25	67	5.3	1.3	0.85	0.85
20	0.78	1.2	2.7	e6.8	14	10	23	51	5.1	1.2	0.85	0.81
21	0.78	2.6	2.6	6	14	11	22	37	4.4	1.1	0.88	0.80
22	0.80	4.1	2.6	5.7	13	14	25	30	4.1	1.0	0.88	0.79
23	0.81	2.0	2.7	e6.1	15	15	30	31	3.9	1.0	0.88	0.75
24	0.78	4.5	2.7	e6.1	13	14	36	36	3.5	0.98	0.88	0.74
25	0.84	3.3	2.9	6	12	13	47	48	3.1	0.93	0.87	0.75
26	0.84	2.0	2.8	5.4	11	13	56	52	2.9	0.93	0.87	0.75
27	0.84	1.6	3.1	e6.1	11	14	42	52	2.6	0.91	0.86	0.75
28	0.84	1.7	3.5	6	11	16	31	52	2.4	0.90	0.86	0.77
29	0.78	1.7	4.1	5.9	---	21	29	55	2.2	0.88	0.90	0.79
30	1.3	1.7	4.7	e5.8	---	26	26	54	2.0	0.86	0.99	0.83
31	1.1	---	7.8	e5.4	---	31	---	50	---	0.85	1.0	---
TOTAL	24.97	46.22	90.3	228.9	205.4	401.7	1438	1677	336.6	36.53	26.72	27.13
MEAN	0.805	1.541	2.913	7.384	7.336	12.96	47.93	54.10	11.22	1.178	0.862	0.904
MAX	1.3	4.5	7.8	13	15	31	95	83	42	1.9	1.0	1.1
MIN	0.69	0.73	1.7	5.4	4.5	9.3	22	24	2.0	0.85	0.81	0.74
AC-FT	50	92	179	454	407	797	2850	3330	668	72	53	54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.094	6.554	8.624	9.635	12.38	18.07	38.55	62.70	35.03	6.594	1.335	1.337
MAX	15.5	45.4	58.7	68.9	64.2	60.1	70.4	114	158	49.6	4.72	4.36
(WY)	1983	1982	1982	1997	1986	1986	1989	1999	1983	1983	1983	1983
MIN	0.73	0.84	0.89	0.90	0.99	5.86	15.9	7.18	1.63	0.49	0.35	0.39
(WY)	1993	1993	1991	1991	1991	1994	1991	1992	2001	1994	1994	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1980 - 2002	
ANNUAL TOTAL	2438.08		4539.47			
ANNUAL MEAN	6.680		12.44		16.91	
HIGHEST ANNUAL MEAN					34.7	1982
LOWEST ANNUAL MEAN					4.96	1988
HIGHEST DAILY MEAN	77	May 8	95	Apr 14	600	Jan 1 1997
LOWEST DAILY MEAN	0.37	Sep 20	0.69	Oct 6	0.29	Jul 28 1994
ANNUAL SEVEN-DAY MINIMUM	0.40	Sep 17	0.72	Oct 4	0.31	Aug 15 1994
MAXIMUM PEAK FLOW			162	Apr 14	797	Jan 2 1997
MAXIMUM PEAK STAGE			2.36	Apr 14	7.86	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	4840		9000		12250	
10 PERCENT EXCEEDS	18		48		51	
50 PERCENT EXCEEDS	1.8		3.5		3.2	
90 PERCENT EXCEEDS	0.67		0.81		0.82	

e Estimated

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983.

WATER TEMPERATURE: October 1980 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1980 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
22...	1630	.78	606	8.6	93	--	63	14.0	8.5
30...	1850	1.7	604	8.7	89	--	65	3.5	6.5
NOV									
21...	1710	3.4	599	9.5	94	--	62	5.5	4.5
21...	2225	5.2	--	--	--	--	58	4.2	4.0
22...	1140	4.2	602	9.6	92	--	58	.2	3.5
24...	1230	7.4	--	--	--	--	53	--	2.5
28...	1505	1.7	598	10.4	96	--	56	.0	2.0
DEC									
31...	1600	8.3	607	11.0	97	--	53	2.1	.9
JAN									
06...	1515	16	613	11.3	99	--	29	4.0	1.0
07...	1615	12	--	--	--	--	28	3.5	1.5
24...	1630	E6.1	609	11.3	97	--	34	-1.0	.0
FEB									
20...	1140	13	605	11.0	99	--	30	5.5	1.5
MAR									
05...	1330	9.2	604	10.7	101	--	30	8.0	3.2
APR									
02...	2035	44	604	11.0	100	--	21	1.0	1.8
05...	0845	63	--	--	--	--	18	5.5	1.0
11...	1315	59	608	10.7	101	--	17	--	3.5
15...	0930	92	--	--	--	--	13	-2.5	1.0
24...	2025	35	--	--	--	--	19	9.0	5.0
MAY									
06...	1320	54	--	--	--	--	14	14.0	5.1
06...	2000	80	--	--	--	--	14	6.5	5.0
15...	0820	71	--	--	--	6.8	12	7.0	2.1
16...	2045	86	606	9.6	98	--	11	10.0	6.5
22...	1250	28	--	--	--	--	16	9.0	5.0
29...	2045	62	607	8.9	99	--	12	12.5	10.0
JUN									
06...	2025	20	--	--	--	--	18	--	11.5
13...	1515	8.7	608	7.9	100	--	24	24.0	15.5
JUL									
17...	1625	1.3	609	6.8	91	--	50	19.0	18.5
AUG									
21...	1820	.84	605	6.9	88	--	57	16.5	16.0
SEP									
19...	1750	.78	606	7.4	89	--	60	16.5	13.0

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
22...	<.003	.14	.003	.020	.013	90	2	<.01
30...	<.003	.16	.003	.029	.012	230	3	.01
NOV								
21...	<.003	.25	.003	.057	.017	874	5	.05
21...	<.003	.63	.005	.126	.026	2280	24	.34
22...	.005	.35	.005	.035	.011	398	6	.07
24...	<.003	.36	.005	.092	.017	1250	28	.56
28...	.005	.18	.004	.016	.009	131	1	<.01
DEC								
31...	.004	.22	.003	.019	.004	138	2	.04
JAN								
06...	.003	.31	.005	.039	.003	449	8	.35
07...	.003	.38	.008	.015	.004	80	1	.03
24...	<.003	.22	.002	.022	.001	49	1	E.02
FEB								
20...	<.003	.30	.003	.017	.003	114	2	.07
MAR								
05...	<.003	.15	.003	.009	.003	52	1	.02
APR								
02...	.003	.35	.004	.024	.002	225	10	1.2
05...	.003	.25	.009	.013	.002	137	6	1.0
11...	.004	.55	.005	.006	.002	62	3	.48
15...	.004	.33	.004	.017	.002	199	7	1.7
24...	.005	.32	.004	.008	.001	49	2	.19
MAY								
06...	<.003	.33	.002	.005	.001	49	1	.15
06...	<.003	.20	.002	.009	.001	130	8	1.7
15...	<.003	.17	.003	.007	.001	40	2	.38
16...	<.003	.07	.002	.009	.002	56	7	1.6
22...	<.003	.14	.002	.007	.002	117	5	.38
29...	<.003	.25	.002	.008	.001	239	4	.67
JUN								
06...	.003	.12	.002	.011	.001	84	3	.16
13...	.006	.10	.002	.010	.004	137	2	.05
JUL								
17...	.005	.14	.004	.039	.018	156	1	<.01
AUG								
21...	.003	.12	.003	.032	.016	167	1	<.01
SEP								
19...	.005	.06	.002	.026	.018	160	<1	<.01

Remark Codes Used in This report:
  < -- Less than
  E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°06'27", long 120°09'40", in NW $^1/_4$ NE $^1/_4$ sec.36, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, on right bank, 300 ft upstream from bridge on State Highway 89, 1,000 ft upstream from Lake Tahoe, and 4.6 mi south of Tahoe City.

DRAINAGE AREA.--11.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6,234.59 ft above NGVD of 1929. October 1, 1960, to September 30, 1964, at datum 10.25 ft lower and October 1, 1964, to August 27, 1970, at datum 12 ft lower, at site 400 ft downstream.

REMARKS.--Records good except estimated daily discharges, which are fair. No known diversion or regulation upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,940 ft^3/s, January 1, 1997, gage height, 9.82 ft; maximum gage height, 9.90 ft, site and datum then in use, December 22, 1964; minimum daily, 0.50 ft^3/s, September 24, 1968.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	1715	e249	a3.01	May 30	2000	206	2.45
May 17	1415	237	2.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	e5.0	16	e8.2	e16	52	49	146	18	3.8	1.8
2	1.1	1.1	6.4	16	e7.7	e15	62	51	119	16	3.8	1.8
3	1.0	1.0	7.0	17	e7.6	e15	74	66	108	16	3.4	1.8
4	1.0	1.0	5.8	16	e7.6	e15	e87	84	113	14	3.4	1.8
5	1.1	1.1	4.8	15	e7.7	e15	e85	101	121	14	3.2	1.8
6	1.1	1.1	e4.5	37	e7.6	e20	e75	117	119	13	3.1	1.9
7	1.1	1.0	e5.5	33	e7.5	e21	e81	127	111	12	3.0	1.9
8	1.1	1.0	e5.0	27	e7.5	e17	e86	117	98	12	2.8	1.9
9	1.1	1.1	e4.6	23	e7.2	e16	e88	111	83	11	2.9	1.8
10	1.1	1.1	e4.8	21	e7.0	e17	e90	102	72	10	2.9	1.7
11	1.2	1.7	e4.6	e19	e6.6	e18	e100	94	68	9.6	2.7	1.7
12	1.1	1.9	e4.6	e18	e6.4	e19	e107	101	70	9.6	2.6	1.7
13	1.1	1.8	e4.8	e17	e6.1	e20	e124	115	76	9.4	2.4	1.6
14	1.1	1.6	e4.9	e16	e6.1	e19	e172	132	74	8.6	2.4	1.6
15	1.1	1.4	e4.8	e16	e5.9	e18	e142	145	65	8.1	2.3	1.6
16	1.1	1.3	e5.1	e16	e6.0	e17	e112	150	58	7.5	2.3	1.6
17	1.1	1.3	e4.9	e15	e6.0	e17	e86	165	54	7.3	2.2	1.6
18	1.0	1.2	e4.9	e15	e6.3	e17	e72	159	55	7.4	2.2	1.6
19	1.1	1.2	e4.9	e14	e7.6	e18	e62	135	53	7.0	2.2	1.6
20	1.1	1.2	e5.1	e14	e20	e19	e56	107	50	6.6	2.2	1.5
21	1.1	4.7	e4.8	e13	e19	21	e54	88	46	6.2	2.2	1.5
22	1.2	17	e4.8	e12	e18	22	e57	78	40	5.9	2.2	1.5
23	1.3	5.1	e5.1	e11	e19	23	e62	75	37	5.6	2.1	1.4
24	1.2	18	e4.5	e11	e18	22	e71	77	33	5.3	2.0	1.4
25	1.2	8.9	e4.6	e10	e17	21	e82	88	31	5.2	2.0	1.4
26	1.2	e4.5	e4.6	e10	e17	21	e84	101	30	4.9	2.0	1.4
27	1.3	e4.0	e4.9	e10	e16	22	e77	113	27	4.7	2.0	1.4
28	1.3	e3.9	e5.2	e10	e16	24	e67	126	24	4.5	2.0	1.4
29	1.2	e3.9	e5.6	e9.5	---	28	e62	139	21	4.3	1.9	1.5
30	2.5	e4.1	e8.1	e9.2	---	35	55	155	19	4.2	2.0	1.6
31	1.5	---	18	e8.8	---	43	---	158	---	4.0	1.9	---
TOTAL	36.8	99.3	172.2	495.5	292.6	631	2484	3426	2021	271.9	78.1	48.8
MEAN	1.187	3.310	5.555	15.98	10.45	20.35	82.80	110.5	67.37	8.771	2.519	1.627
MAX	2.5	18	18	37	20	43	172	165	146	18	3.8	1.9
MIN	1.0	1.0	4.5	8.8	5.9	15	52	49	19	4.0	1.9	1.4
AC-FT	73	197	342	983	580	1250	4930	6800	4010	539	155	97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.736	12.26	19.37	24.96	21.07	30.24	61.25	127.7	99.99	28.67	5.655	2.816
MAX	28.1	94.8	157	201	116	122	124	312	320	149	36.1	10.3
(WY)	1963	1984	1965	1997	1986	1986	1989	1969	1983	1983	1983	1982
MIN	1.19	1.68	1.90	2.00	2.27	3.82	13.6	29.7	7.20	2.76	1.31	1.00
(WY)	2002	1978	1977	1991	1991	1977	1975	1977	1992	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	5057.11		10057.2			
ANNUAL MEAN	13.86		27.55		36.59	
HIGHEST ANNUAL MEAN					73.4	1982
LOWEST ANNUAL MEAN					8.71	1977
HIGHEST DAILY MEAN	122	May 16	172	Apr 14	2000	Jan 1 1997
LOWEST DAILY MEAN	0.83	Sep 19	1.0	Oct 3	0.50	Sep 24 1968
ANNUAL SEVEN-DAY MINIMUM	0.86	Sep 18	1.0	Nov 2	0.54	Sep 23 1968
MAXIMUM PEAK FLOW			e249	Apr 14	2940	Jan 1 1997
MAXIMUM PEAK STAGE			a3.01	Apr 14	9.90	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	10030		19950		26510	
10 PERCENT EXCEEDS	44		92		106	
50 PERCENT EXCEEDS	3.6		8.1		10	
90 PERCENT EXCEEDS	1.1		1.2		2.1	

e Estimated
a Orifice buried

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1980 to September 1983.

WATER TEMPERATURE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
22...	1520	1.3	608	9.0	97	--	82	14.0	8.5
30...	1730	3.1	603	9.2	96	--	77	3.5	7.0
NOV									
21...	1600	5.5	602	9.8	96	--	73	4.0	4.5
21...	2040	19	--	--	--	--	70	--	--
21...	2105	10	--	--	--	--	70	3.8	5.0
22...	1035	14	601	10.6	97	--	52	.3	1.8
24...	1335	51	--	--	--	--	48	-.5	2.0
28...	1555	E3.9	598	10.5	98	--	68	-1.5	2.3
DEC									
31...	1445	20	607	10.7	99	--	53	4.0	2.5
JAN									
06...	1400	47	613	11.5	99	--	46	3.0	.5
07...	1525	30	--	--	--	--	51	3.9	3.3
24...	1505	E11	610	11.6	99	--	56	.0	.0
FEB									
20...	1020	E20	604	10.9	100	--	52	4.5	2.0
MAR									
05...	1225	E15	606	10.2	99	--	57	4.5	4.5
APR									
02...	1920	71	604	10.5	99	--	46	2.0	3.0
05...	0740	E85	--	--	--	--	42	1.0	2.0
11...	1205	E100	608	10.2	101	--	45	10.7	5.2
15...	0800	E142	--	--	--	--	37	-4.0	1.5
24...	1930	E71	--	--	--	--	47	8.5	6.5
MAY									
06...	1225	94	--	--	--	--	41	14.3	7.2
06...	1910	146	--	--	--	--	36	8.5	5.0
15...	0725	130	--	--	--	7.1	35	2.0	2.0
16...	1930	188	606	10.1	100	--	32	11.8	5.0
22...	1200	76	--	--	--	--	41	6.0	6.0
29...	1935	178	607	10.0	102	--	28	13.7	6.2
JUN									
06...	1930	140	--	--	--	--	27	16.5	8.0
13...	1400	67	609	8.5	100	--	33	22.0	12.5
20...	1340	46	--	--	--	--	35	22.0	12.5
JUL									
17...	1720	7.0	610	6.8	95	--	57	19.0	20.5
AUG									
21...	1710	2.1	606	7.4	97	--	71	17.5	17.0
SEP									
19...	1650	1.4	608	7.8	96	--	76	19.5	14.5

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
22...	.003	.17	.002	.013	.007	100	2	.01
30...	<.003	.20	.004	.019	.007	168	5	.04
NOV								
21...	.003	.13	.002	.018	.008	142	2	.03
21...	<.003	.32	.003	.045	.009	614	9	.46
21...	.003	.32	.004	.080	.008	1250	44	1.2
22...	<.003	.28	.111	.034	.003	402	14	.53
24...	.003	.41	.086	.141	.003	2280	41	5.6
28...	.004	.12	.051	.012	.003	128	3	E.03
DEC								
31...	.004	.28	.002	.020	.002	229	7	.38
JAN								
06...	.004	1.7	.015	.057	.004	969	28	3.6
07...	.003	.20	.034	.012	.002	111	3	.24
24...	<.003	.50	.002	.022	.002	114	10	E.30
FEB								
20...	<.003	.81	.002	.019	.003	235	8	E.43
MAR								
05...	<.003	.18	.007	.013	.004	91	3	E.12
APR								
02...	.004	1.1	.032	.071	.003	1000	46	8.8
05...	.004	.34	.067	.024	.003	303	15	E3.4
11...	.003	.13	.055	.016	.002	138	7	E1.9
15...	.004	.25	.060	.032	.003	490	33	E12.7
24...	.004	.17	.031	.015	.002	129	6	E1.1
MAY								
06...	<.003	.21	.027	.009	.002	106	6	1.5
06...	<.003	.12	.026	.035	.001	705	42	16.6
15...	<.003	.14	.030	.013	.003	133	11	3.9
16...	<.003	.12	.021	.034	.003	--	38	19.3
22...	.003	.12	.015	.013	.004	130	5	1.0
29...	.003	.33	.009	.050	.001	713	104	50.0
JUN								
06...	.004	.15	.002	.021	.001	193	21	7.9
13...	.005	.08	.002	.013	.003	518	6	1.1
20...	.006	.18	.005	.018	.004	301	4	.50
JUL								
17...	.006	<.04	.002	.038	.009	106	5	.09
AUG								
21...	<.003	.09	.002	.023	.009	101	3	.02
SEP								
19...	.004	.06	.002	.016	.010	118	3	.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°08'27", long 120°12'40", in SE $^1/_4$ SE $^1/_4$ sec.16, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on left bank, 0.1 mi downstream from confluence with unnamed tributary, 3.2 mi west of William Kent Campground, and 4.8 mi southwest of Tahoe City.

DRAINAGE AREA.--4.96 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No storage or diversion upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,220 ft^3/s, January 1, 1997, gage height, 8.85 ft, from crest stage gage; no flow for some days in most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 50 ft^3/s and maximum(*):

		Discharge	Gage height			Discharge	Gage height
Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
Apr 14	1800	124	4.92	May 30	1745	141	4.99

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.49	e1.3	3.4	3.1	7.2	19	18	84	e13	0.98	0.33
2	0.34	0.40	3.5	3.6	2.9	6.6	24	19	63	e12	0.93	0.31
3	0.34	0.37	2.2	3.9	2.8	6.3	32	27	59	e9.9	0.89	0.29
4	0.32	0.35	1.3	3.3	2.8	6.5	44	38	63	e9.0	0.85	0.30
5	0.31	0.35	1.3	3.4	2.8	6.5	42	49	67	e7.6	0.78	0.32
6	0.32	0.32	e1.5	e13	2.8	9.1	35	57	66	e7.0	0.75	0.38
7	0.33	0.27	1.8	12	2.9	8.1	36	58	60	e6.5	0.72	0.41
8	0.34	0.26	1.6	8.8	2.7	6.9	42	51	52	e5.7	0.68	0.42
9	0.37	0.25	1.5	7.0	2.6	6.4	38	50	41	e5.4	0.63	0.41
10	0.39	0.26	1.4	6.1	2.6	6.0	39	45	37	e5.0	0.59	0.37
11	0.38	e0.65	1.3	5.7	2.7	6.0	43	44	35	4.3	0.56	0.34
12	0.35	0.80	1.3	5.5	2.8	6.8	50	51	35	4.2	0.53	0.31
13	0.37	0.85	1.4	5.2	2.8	6.2	52	63	37	3.9	0.49	0.30
14	0.38	1.1	1.9	5.1	2.7	5.8	80	72	36	3.5	0.50	0.28
15	0.36	0.88	1.3	4.8	2.7	5.5	58	75	32	3.1	0.50	0.25
16	0.33	0.65	1.3	4.9	2.7	5.2	34	79	30	2.9	0.49	0.29
17	0.32	0.52	1.4	4.7	2.7	5.2	26	92	29	2.8	0.47	0.34
18	0.33	0.46	1.3	4.6	2.6	4.9	22	97	30	2.8	0.46	0.35
19	0.34	0.40	1.3	4.4	2.8	4.8	20	72	28	2.6	0.45	0.34
20	0.31	0.40	1.3	4.3	10	5.1	18	52	28	2.4	0.46	0.33
21	0.31	e2.0	1.2	4.3	9.0	5.5	17	40	26	2.2	0.49	0.32
22	0.31	e3.7	1.3	4.1	8.7	6.2	19	36	23	2.0	0.50	0.30
23	0.29	e1.7	1.2	3.8	9.1	6.1	22	35	22	1.9	0.49	0.29
24	0.29	e3.8	1.2	3.8	7.3	5.7	26	39	e23	1.7	0.47	0.28
25	0.31	e2.8	1.2	3.8	7.0	5.8	36	47	e21	1.5	0.44	0.27
26	0.30	e1.6	1.4	e4.1	7.1	5.9	37	55	e19	1.4	0.42	0.28
27	0.30	e1.2	1.4	3.6	7.2	6.6	29	66	e17	1.3	0.41	0.27
28	0.31	e1.2	1.4	3.3	7.3	7.9	24	74	e16	1.2	0.39	0.32
29	0.31	e1.2	1.5	3.3	---	10	22	81	e15	1.1	0.38	0.37
30	e0.86	e1.2	2.3	3.2	---	13	20	91	e14	1.0	0.37	0.41
31	e0.78	---	4.5	3.1	---	15	---	93	---	1.0	0.36	---
TOTAL	11.26	30.43	49.8	154.1	125.2	212.8	1006	1766	1108	129.9	17.43	9.78
MEAN	0.363	1.014	1.606	4.971	4.471	6.865	33.53	56.97	36.93	4.190	0.562	0.326
MAX	0.86	3.8	4.5	13	10	15	80	97	84	13	0.98	0.42
MIN	0.29	0.25	1.2	3.1	2.6	4.8	17	18	14	1.0	0.36	0.25
AC-FT	22	60	99	306	248	422	2000	3500	2200	258	35	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.660	1.797	4.691	10.34	7.002	11.75	26.81	60.74	51.40	19.75	2.809	0.643
MAX	1.43	9.82	27.2	68.8	32.5	26.9	43.1	93.5	127	88.7	16.0	1.94
(WY)	1999	1997	1997	1997	1996	1995	1997	1996	1998	1995	1995	1995
MIN	0.11	0.45	0.69	0.82	0.95	5.85	16.2	20.5	3.67	0.81	0.025	0.008
(WY)	1993	1996	1995	1992	1994	1994	1998	1992	1992	1994	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	2816.46		4620.70			
ANNUAL MEAN	7.716		12.66		16.56	
HIGHEST ANNUAL MEAN					29.0	1995
LOWEST ANNUAL MEAN					5.56	1992
HIGHEST DAILY MEAN	103	May 15	97	May 18	720	Jan 2 1997
LOWEST DAILY MEAN	0.13	Sep 10	0.25	Nov 9	0.00	Aug 21 1992
ANNUAL SEVEN-DAY MINIMUM	0.16	Sep 4	0.29	Sep 21	0.00	Sep 9 1992
MAXIMUM PEAK FLOW			141	May 30	1220	Jan 1 1997
MAXIMUM PEAK STAGE			4.99	May 30	8.85	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	5590		9170		12000	
10 PERCENT EXCEEDS	27		43		51	
50 PERCENT EXCEEDS	1.4		2.9		3.3	
90 PERCENT EXCEEDS	0.25		0.33		0.38	

e Estimated

10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993 to current year.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT								
22...	1055	.35	--	50	10.0	4.5	.003	.07
30...	1325	E.86	--	55	4.1	5.5	<.003	.81
NOV								
28...	1025	E1.2	--	46	-1.5	1.0	.005	.11
DEC								
29...	1445	1.4	--	46	3.0	2.0	.004	.11
JAN								
06...	1700	21	--	37	.0	.0	.004	.39
24...	1050	3.8	--	41	-3.5	.5	<.003	.27
FEB								
20...	1430	13	--	36	6.0	1.5	<.003	.23
MAR								
04...	1415	6.5	--	40	5.5	3.0	<.003	.19
APR								
02...	1525	24	--	35	11.0	2.0	<.003	.31
05...	1025	42	--	35	9.1	2.1	.003	.33
15...	1100	53	--	31	-.5	2.0	<.003	.21
24...	1630	25	--	33	13.8	3.8	.005	.18
MAY								
06...	0915	42	--	31	9.5	2.5	<.003	.09
06...	1545	66	--	27	12.0	3.2	<.003	.16
15...	0950	58	7.1	28	12.0	3.0	<.003	.13
16...	1540	94	--	25	17.5	3.8	.003	.14
29...	1600	107	--	23	22.0	5.5	.004	.20
JUN								
06...	1425	69	--	24	22.0	8.0	--	--
06...	1640	83	--	23	21.5	6.5	.003	.26
13...	1040	28	--	28	20.0	6.1	.005	.15
20...	1040	26	--	28	--	7.3	.006	.19
JUL								
17...	1230	2.8	--	37	23.8	15.0	.006	.06
AUG								
21...	1240	.52	--	43	19.8	14.3	.003	.05
SEP								
19...	1320	.35	--	45	19.0	13.0	.003	<.04

10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT						
22...	.002	.006	.002	22	<1	<.01
30...	.004	.301	.009	2660	134	E.31
NOV						
28...	.038	.009	.001	17	1	<.01
DEC						
29...	.002	.009	.002	14	2	.01
JAN						
06...	.035	.029	.002	195	10	.57
24...	.008	.022	.001	6	1	.01
FEB						
20...	.013	.015	.003	82	5	.18
MAR						
04...	.006	.009	.003	12	1	.02
APR						
02...	.012	.019	.002	134	9	.58
05...	.033	.015	.003	56	5	.57
15...	.027	.013	.002	83	8	1.1
24...	.019	.009	.001	25	2	.14
MAY						
06...	.017	.007	.003	31	3	.34
06...	.015	.020	.003	219	20	3.6
15...	.014	.011	.003	40	5	.78
16...	.011	.027	.004	--	26	6.6
29...	.015	.041	.004	477	53	15.3
JUN						
06...	--	--	--	--	20	3.7
06...	.013	.030	.003	100	31	6.9
13...	.005	.010	.004	47	2	.15
20...	.004	.016	.004	66	4	.28
JUL						
17...	.005	.023	.006	12	2	.02
AUG						
21...	.002	.014	.003	19	1	<.01
SEP						
19...	.002	.009	.004	20	1	<.01

Remark Codes Used in This report:
  < -- Less than
  E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336675 WARD CREEK AT STANFORD ROCK TRAIL CROSSING NEAR TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°08'13", long 120°10'48", in NE $^{1}/_{4}$ NW $^{1}/_{4}$ sec.23, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on left bank, 1.5 mi west of William Kent Campground, 1.7 mi upstream from mouth, and 3.6 mi southwest of Tahoe City.

DRAINAGE AREA.--8.97 mi^2.

PERIOD OF RECORD.--Water years 1993 to current year.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT												
22...	1215	--	88	12.2	7.0	--	--	--	--	--	--	<1
30...	1530	--	89	4.0	6.2	<.003	.31	.004	.050	.033	154	--
NOV												
28...	1210	--	61	--	1.5	.004	.14	.003	.016	.004	32	1
JAN												
24...	1255	--	50	--	.0	<.003	.19	.002	.029	.003	25	<1
FEB												
20...	1600	--	44	4.0	2.0	<.003	.27	.002	.017	.002	72	3
MAR												
04...	1630	--	49	--	3.5	<.003	.19	.002	.013	.005	21	--
APR												
02...	1710	--	42	--	2.7	<.003	.33	.003	.029	.003	207	13
05...	1200	--	41	--	4.0	.003	.04	.020	.016	.002	70	--
15...	1230	--	37	--	3.5	.003	.23	.019	.016	.004	118	8
24...	1800	--	40	--	5.3	.004	.14	.008	.011	.002	42	2
MAY												
06...	1050	--	37	--	5.0	<.003	.22	.005	.008	.002	39	1
06...	1730	--	33	--	5.0	<.003	.19	.005	.031	.003	284	38
15...	1120	7.2	34	--	6.0	<.003	E.08	.005	.012	.004	46	3
16...	1720	--	31	--	6.0	<.003	.16	.010	.023	.005	--	17
29...	1735	--	28	--	6.5	<.003	E.07	<.002	.034	.001	306	27
JUN												
06...	1755	--	28	--	7.8	<.003	.15	.002	.026	.002	88	11
13...	1205	--	33	--	9.5	.005	.15	.002	.011	.004	66	2
20...	1200	--	33	--	11.0	.005	.10	.004	.018	.004	58	2
JUL												
17...	1355	--	49	--	--	.009	.07	.004	.035	.005	24	1
AUG												
21...	1500	--	75	--	17.8	<.003	.06	.002	.024	.011	47	2
SEP												
19...	1435	--	81	--	14.5	.005	.09	.004	.023	.015	68	2

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°07'56", long 120°09'24", in NW $^1/_4$ SE $^1/_4$ sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft downstream from State Highway 89 Bridge, 2.1 mi north of Tahoe Pines, and 2.6 mi southwest of Tahoe City.

DRAINAGE AREA.—9.70 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1972 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 6,230 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Minor diversions for local water supply upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,530 ft^3/s, January 1, 1997, gage height, 9.36 ft; no flow for many days during several years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft^3/s and maximum(*):

		Discharge	Gage height			Discharge	Gage height
Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
Apr 14	1815	218	5.73	May 18	1915	195	5.66

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.09	0.85	3.4	7.3	e6.3	e14	35	37	112	15	1.5	0.33
2	0.06	0.66	e5.2	8.0	e5.9	e13	42	39	89	14	1.4	0.30
3	0.05	0.60	e6.6	8.8	e5.7	13	51	50	80	13	1.3	0.28
4	0.03	0.61	e5.4	7.0	e5.6	12	66	65	83	12	1.3	0.28
5	0.06	0.59	4.5	7.1	e5.6	12	65	78	90	11	1.2	0.30
6	0.08	0.62	3.9	e21	e5.6	20	58	89	88	10	1.1	0.36
7	0.09	0.65	4.4	e16	e5.7	20	59	92	81	9.1	1.0	0.45
8	0.09	0.64	3.4	e15	e5.5	18	67	82	71	8.2	0.96	0.49
9	0.10	0.64	3.0	14	e5.4	15	70	78	58	7.4	0.89	0.52
10	0.12	0.64	2.7	12	e5.3	13	70	72	51	6.9	0.85	0.48
11	0.13	2.0	2.5	11	e4.9	13	76	67	47	6.2	0.76	0.44
12	0.13	2.1	2.4	11	4.8	14	88	74	47	6.1	0.66	0.39
13	0.16	1.7	2.4	e11	4.7	13	91	87	50	5.8	0.58	0.36
14	0.17	1.5	e2.5	e10	4.6	12	130	99	49	5.1	0.55	0.34
15	0.18	1.6	e2.7	e10	4.5	e12	107	105	45	4.6	0.47	0.36
16	0.17	1.4	e3.0	9.2	4.5	e12	65	106	41	4.3	0.44	0.38
17	0.18	1.1	e3.2	e9.2	4.5	e12	52	122	39	4.0	0.44	0.33
18	0.19	0.99	e3.1	e8.9	4.3	e11	43	131	39	4.3	0.41	0.29
19	0.21	0.93	e3.1	e8.8	5.3	e11	38	106	38	4.1	0.40	0.30
20	0.22	0.90	3.0	e8.7	e16	11	36	84	37	3.6	0.39	0.30
21	0.24	5.4	2.4	e8.4	16	12	36	66	35	3.4	0.44	0.25
22	0.26	17	2.4	e8.2	15	13	39	57	32	3.0	0.47	0.23
23	0.27	4.6	2.5	e7.9	e15	14	44	54	29	2.8	0.51	0.22
24	0.29	18	2.1	e7.7	14	12	49	57	27	2.5	0.50	0.21
25	0.29	9.0	e2.2	e7.6	14	12	62	64	25	2.4	0.46	0.22
26	0.33	5.4	2.3	e7.5	14	12	65	72	25	2.2	0.42	0.23
27	0.41	3.8	2.4	e7.4	14	13	54	82	23	2.1	0.40	0.22
28	0.51	3.4	2.7	e7.2	e14	15	47	92	20	1.9	0.39	0.23
29	0.53	e3.1	2.9	e7.1	---	19	44	101	18	1.8	0.40	0.27
30	2.4	e3.2	3.9	e6.9	---	24	39	114	17	1.6	0.38	0.31
31	1.8	---	e10	e6.6	---	29	---	120	---	1.6	0.37	---
TOTAL	9.84	93.62	106.2	296.5	230.7	446	1788	2542	1486	180.0	21.34	9.67
MEAN	0.317	3.121	3.426	9.565	8.239	14.39	59.60	82.00	49.53	5.806	0.688	0.322
MAX	2.4	18	10	21	16	29	130	131	112	15	1.5	0.52
MIN	0.03	0.59	2.1	6.6	4.3	11	35	37	17	1.6	0.37	0.21
AC-FT	20	186	211	588	458	885	3550	5040	2950	357	42	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.029	10.25	11.88	16.81	14.65	21.03	42.84	91.44	74.02	21.88	3.793	1.720
MAX	22.4	73.9	92.5	144	77.7	80.3	89.2	177	265	123	26.9	7.93
(WY)	1983	1982	1982	1997	1982	1986	1989	1996	1983	1983	1983	1983
MIN	0.15	1.06	0.80	1.10	1.24	2.52	8.06	18.7	4.59	1.00	0.003	0.005
(WY)	1978	1978	1977	1991	1991	1977	1975	1977	1992	2001	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1973 - 2002	
ANNUAL TOTAL	3897.08		7209.87			
ANNUAL MEAN	10.68		19.75		26.13	
HIGHEST ANNUAL MEAN					59.0	1983
LOWEST ANNUAL MEAN					5.29	1977
HIGHEST DAILY MEAN	109	May 15	131	May 18	1390	Jan 1 1997
LOWEST DAILY MEAN	0.00	Aug 13	0.03	Oct 4	0.00	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 13	0.07	Oct 1	0.00	Aug 4 1977
MAXIMUM PEAK FLOW			218	Apr 14	2530	Jan 1 1997
MAXIMUM PEAK STAGE			5.73	Apr 14	9.36	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	7730		14300		18930	
10 PERCENT EXCEEDS	41		68		75	
50 PERCENT EXCEEDS	2.3		5.7		6.6	
90 PERCENT EXCEEDS	0.00		0.29		0.87	

e Estimated

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983.

WATER TEMPERATURE: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
22...	1415	.27	607	9.2	99	--	85	16.0	8.5
30...	1630	2.4	603	9.4	96	--	84	3.5	6.2
30...	1955	7.4	--	--	--	--	91	2.5	5.2
NOV									
12...	1500	2.1	--	--	--	--	69	4.0	4.0
21...	1445	3.2	603	10.5	101	--	71	3.5	3.8
21...	1945	12	--	--	--	--	69	4.0	4.0
22...	0840	20	600	11.1	99	--	54	.5	1.0
24...	1440	33	--	--	--	--	48	-1.0	.6
28...	1305	3.4	599	11.2	100	--	66	.0	.8
DEC									
29...	1650	3.1	--	--	--	--	62	1.0	.5
31...	1320	15	607	11.4	98	--	55	7.5	.0
JAN									
06...	1255	40	--	--	--	--	47	4.5	.0
07...	1425	20	612	11.1	100	--	51	--	2.0
24...	1355	29	610	11.6	99	--	56	2.1	.0
FEB									
20...	0900	22	604	11.6	100	--	49	3.2	.0
MAR									
04...	1725	13	607	10.4	98	--	52	1.0	3.5
APR									
02...	1800	50	604	10.6	100	--	44	5.0	3.0
05...	0650	68	--	--	--	--	42	-.2	1.5
11...	1055	66	609	10.6	100	--	42	12.0	3.5
15...	0725	118	--	--	--	--	37	-1.5	1.3
24...	1840	52	--	--	--	--	41	10.1	6.0
MAY									
06...	1135	68	--	--	--	--	38	14.1	6.0
06...	1810	122	--	--	--	--	35	10.9	5.3
15...	0635	96	--	--	--	7.2	35	2.0	2.0
16...	1810	132	605	9.7	100	--	32	16.0	6.5
22...	1105	56	--	--	--	--	38	5.0	5.0
29...	1825	135	608	9.6	101	--	29	19.5	7.5
JUN									
06...	1840	109	--	--	--	--	29	18.5	8.5
13...	1255	46	608	8.7	100	--	34	23.0	11.5
20...	1245	35	--	--	--	--	34	22.0	12.5
JUL									
17...	1455	3.9	609	7.2	101	--	51	25.0	20.5
AUG									
21...	1545	.45	608	7.6	100	--	71	18.0	17.5
SEP									
19...	1555	.30	608	7.9	99	--	78	21.5	15.0

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
22...	<.003	.15	.002	.017	.009	94	<1	<.01
30...	<.003	.35	.004	.041	.020	234	4	.03
30...	<.003	.91	.004	.113	.022	1420	27	.54
NOV								
12...	.007	.20	.003	.034	.016	120	7	.04
21...	.003	.15	.003	.031	.015	136	5	.04
21...	<.003	.34	.003	.067	.021	959	17	.55
22...	<.003	.25	.057	.032	.006	233	9	.49
24...	.003	.30	.026	.041	.006	267	10	.89
28...	.005	.12	.002	.014	.005	48	1	.01
DEC								
29...	.004	.14	.002	.021	.006	50	2	.02
31...	.003	.20	.004	.020	.006	136	3	.12
JAN								
06...	.006	.32	.011	.035	.008	321	13	1.4
07...	.007	.50	.014	.017	.007	55	2	.11
24...	<.003	.17	.002	.031	.005	31	1	.08
FEB								
20...	<.003	.18	.008	.024	.007	169	5	.30
MAR								
04...	<.003	.12	.003	.015	.006	29	2	.07
APR								
02...	<.003	.62	.002	.028	.002	310	20	2.7
05...	<.003	.26	.017	.025	.003	148	10	1.8
11...	.003	.11	.002	.013	.004	61	4	.71
15...	<.003	.23	.025	.023	.004	222	15	4.8
24...	.004	.17	.004	.013	.003	72	4	.56
MAY								
06...	<.003	.25	.002	.011	.003	50	3	.55
06...	<.003	.19	.003	.033	.002	364	22	7.2
15...	<.003	.13	.012	.014	.004	65	5	1.3
16...	<.003	.14	.002	.023	.005	--	17	6.1
22...	<.003	.17	.003	.013	.004	39	5	.76
29...	<.003	.40	.002	.032	.002	294	23	8.4
JUN								
06...	.003	.12	.002	.025	.002	177	8	2.4
13...	.004	.11	.002	.011	.004	79	3	.37
20...	.003	.07	.003	.017	.004	43	2	.19
JUL								
17...	.005	<.04	.003	.033	.010	26	2	.02
AUG								
21...	<.003	.07	.003	.022	.007	34	1	<.01
SEP								
19...	.003	.34	.003	.015	.010	54	2	<.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336688 FIRST CREEK NEAR CRYSTAL BAY, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'00", long 119°59'18", in NE $^{1}/_{4}$ SW $^{1}/_{4}$ sec.17, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on left bank, 20 ft upstream of culvert on State Highway 28, 400 ft upstream of mouth, 1.6 mi northeast of Crystal Bay, and 2.2 mi west of Incline Village.

DRAINAGE AREA.--1.07 mi^2.

PERIOD OF RECORD.--Water years 1970-73, 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
18...	1040	.37	609	11.6	99	7.4	105	-3.0	.0
APR									
08...	1520	2.1	--	--	--	--	65	12.5	6.5
MAY									
10...	1250	1.5	--	--	--	--	59	8.0	5.5
JUN									
11...	1030	1.3	608	9.7	98	7.5	53	11.5	6.0
AUG									
05...	1225	.22	608	8.8	98	7.1	84	18.0	10.0

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
18...	.003	.18	.003	.013	.005	231	5	<.01
APR								
08...	.003	1.6	.006	.039	.009	406	38	.22
MAY								
10...	<.003	1.3	.003	.026	.006	463	11	.04
JUN								
11...	.003	.11	.005	.022	.007	167	10	.04
AUG								
05...	.015	.21	.006	.031	.011	313	5	<.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336694 WOOD CREEK AT MOUTH NEAR CRYSTAL BAY, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°l4'35", long 119°57'30", in NE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.21, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 20 ft upstream of culvert on Lakeshore Drive, 600 ft upstream of mouth, 0.6 mi west of Incline Village, and 2.6 mi northeast of Crystal Bay.

DRAINAGE AREA.--1.97 mi^2.

PERIOD OF RECORD.--Water years 1970-73 (at site 600 ft downstream of current site), 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
18...	1210	2.4	610	--	--	7.1	65	-.5	.0
APR									
08...	1640	4.5	--	--	--	--	50	11.5	6.5
MAY									
10...	1435	4.0	--	--	--	--	47	7.0	7.0
JUN									
11...	1230	1.7	609	9.3	98	7.7	48	16.5	8.0
AUG									
05...	1450	.27	607	8.4	99	7.4	62	19.5	12.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
18...	<.003	.18	.019	.021	.008	278	4	.03
APR								
08...	.003	.21	.013	.086	.015	467	41	.50
MAY								
10...	<.003	.20	.007	.034	.014	424	8	.09
JUN								
11...	<.003	.08	.004	.029	.013	308	9	.04
AUG								
05...	.005	.15	.003	.047	.018	322	5	<.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

103366974 ROSEWOOD CREEK BELOW HIGHWAY 28 AT INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'52", long 119°56'36", in SW $^{1}/_{4}$ se $^{1}/_{4}$ sec.15, T.16 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 50 feet upstream of confluence with Third Creek, 375 feet south of State Highway 28, and 1.0 mi east of intersection of Southwood Boulevard and State Highway 28.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 2001 to current year.

REMARKS.--In March 2001, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
18...	1425	.83	608	11.1	97	7.1	256	1.5	.5
29...	1725	2.0	--	--	--	--	225	11.0	5.5
APR									
05...	1540	1.9	--	--	--	--	230	7.5	8.0
08...	1805	1.4	--	--	--	--	222	10.5	6.5
MAY									
06...	1620	1.0	--	--	--	--	210	13.5	10.5
JUN									
11...	1415	.37	607	8.3	96	7.7	156	19.5	11.5
JUL									
17...	1745	E.90	--	--	--	--	164	12.0	11.0
AUG									
06...	1340	.13	606	8.2	95	7.2	110	18.0	11.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR									
18...	.008	.40	.031	.041	.006	1650	--	33	.07
29...	.004	2.3	.115	.367	.011	2500	46	301	1.6
APR									
05...	.005	.14	.070	.060	.012	2070	--	38	.19
08...	.003	.25	.057	.049	.011	121	--	29	.11
MAY									
06...	<.003	.22	.012	.039	.012	1000	--	11	.03
JUN									
11...	.004	.10	.013	.029	.014	5400	--	5	.0
JUL									
17...	.006	.71	.034	.629	.022	13000	95	266	E.65
AUG									
06...	.012	.33	.022	.049	.019	565	--	4	.0

Remark Codes Used in This report:
< -- Less than
E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'26", long 119°56'44", in SW $^1/_4$ NE $^1/_4$ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.02 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to September 1973, February to September 1975, and October 1977 to current year.

REVISED RECORDS.--WDR NV-78-1: Drainage area. WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. One transmountain diversion to Washoe Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin. Flow temporarily diverted from Incline Creek into Third Creek, August 23, 1999 to October 1, 1999, for Incline Creek restoration project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s, June 18, 1982, gage height, 3.40 ft; maximum gage height, 3.77 ft, January 23, 1973; minimum daily, 0.66 ft^3/s, October 13, 14, 16-19, November 1-4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 8	1945	20	2.63	No other peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.85	1.4	2.4	2.8	e2.5	e3.4	6.4	7.3	28	3.8	1.4	1.1
2	0.88	1.3	2.9	3.4	2.4	e3.4	7.4	7.1	24	3.4	1.4	1.1
3	0.85	1.3	e2.4	3.2	2.3	e3.4	8.9	7.8	22	3.0	1.3	1.1
4	0.86	1.3	e2.8	e2.8	2.4	3.2	9.8	8.9	23	3.0	1.3	1.1
5	0.87	1.3	e2.4	2.8	2.4	3.3	9.5	10	24	3.0	1.3	1.2
6	0.91	1.4	e2.4	4.0	2.3	4.3	8.6	13	22	2.8	1.4	1.3
7	0.93	1.4	e2.3	3.6	2.4	4.2	8.1	14	20	2.7	1.3	1.4
8	0.96	1.5	e2.3	3.3	2.3	e4.0	8.4	14	18	2.6	1.2	1.3
9	0.98	1.4	e2.3	3.1	2.3	e3.7	8.1	13	17	2.4	1.2	1.2
10	1.0	1.5	e2.3	3.0	2.4	3.5	7.2	12	15	2.3	1.2	1.2
11	1.1	2.0	e2.2	3.0	2.5	3.4	7.6	11	13	2.2	1.1	1.2
12	1.1	1.9	e2.2	3.1	2.5	3.5	9.1	13	11	2.2	1.1	1.2
13	1.1	1.7	e2.3	3.1	2.5	3.4	10	16	11	2.2	1.0	1.2
14	1.1	1.7	e3.0	e3.0	2.6	e3.2	12	18	11	2.1	1.0	1.2
15	1.1	1.7	e2.4	e3.0	2.6	e3.4	13	19	9.8	2.0	1.0	1.2
16	1.1	1.6	e2.8	e3.0	2.6	e3.3	10	21	9.0	2.0	1.0	1.2
17	1.1	1.6	e2.5	e3.0	2.6	e3.2	9.0	23	8.7	2.4	1.0	1.3
18	1.1	1.5	2.5	e3.0	2.6	e3.0	8.0	25	8.9	2.7	1.0	1.4
19	1.2	1.5	2.5	e3.0	2.7	e2.9	7.6	23	7.8	2.3	1.0	1.4
20	1.1	1.5	2.5	e2.8	3.2	3.1	7.4	20	6.5	2.1	1.1	1.4
21	1.1	2.0	2.5	e2.8	3.2	3.3	7.4	15	6.2	2.0	1.1	1.3
22	1.2	3.3	2.5	e2.8	3.5	3.5	7.6	14	6.0	1.8	1.1	1.2
23	1.2	2.2	2.5	e2.7	3.5	3.4	8.2	14	5.7	1.8	1.1	1.2
24	1.2	5.1	e2.6	e2.7	3.3	3.1	8.9	15	5.2	1.7	1.1	1.2
25	1.2	2.8	e2.4	e2.6	3.3	3.0	9.9	17	5.1	1.7	1.1	1.2
26	1.2	e2.5	2.3	2.4	3.5	3.2	11	19	4.9	1.7	1.1	1.3
27	1.2	e2.4	2.3	2.3	3.5	3.5	9.4	20	4.7	1.6	1.1	1.3
28	1.3	e2.3	2.6	e2.8	3.5	3.9	8.1	21	4.4	1.6	1.1	1.5
29	1.3	e2.3	2.9	e2.6	---	4.4	8.4	25	4.1	1.5	1.1	1.3
30	1.7	e2.3	2.9	e2.5	---	4.8	7.7	29	4.0	1.4	1.1	0.98
31	1.5	---	3.4	e2.5	---	5.5	---	31	---	1.4	1.1	---
TOTAL	34.29	57.7	78.3	90.7	77.4	110.4	262.7	516.1	360.0	69.4	35.4	37.18
MEAN	1.106	1.923	2.526	2.926	2.764	3.561	8.757	16.65	12.00	2.239	1.142	1.239
MAX	1.7	5.1	3.4	4.0	3.5	5.5	13	31	28	3.8	1.4	1.5
MIN	0.85	1.3	2.2	2.3	2.3	2.9	6.4	7.1	4.0	1.4	1.0	0.98
AC-FT	68	114	155	180	154	219	521	1020	714	138	70	74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2002, BY WATER YEAR (WY)

MEAN	3.489	4.335	4.324	4.676	4.528	6.256	9.697	19.80	23.02	10.82	3.957	3.108
MAX	9.10	11.0	8.84	17.1	9.05	13.5	20.2	41.2	50.3	53.9	15.7	8.71
(WY)	1984	1985	1996	1997	1986	1986	1986	1997	1982	1995	1983	1999
MIN	0.79	1.50	2.31	2.09	2.35	3.56	5.13	3.84	1.81	1.17	0.94	0.94
(WY)	1978	1978	1995	1985	1978	2002	1988	1988	2001	1994	1994	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1970 - 2002	
ANNUAL TOTAL	1058.98		1729.57			
ANNUAL MEAN	2.901		4.739		8.132	
HIGHEST ANNUAL MEAN					14.1	1983
LOWEST ANNUAL MEAN					2.92	1988
HIGHEST DAILY MEAN	14	May 9	31	May 31	99	Jun 19 1982
LOWEST DAILY MEAN	0.85	Oct 1	0.85	Oct 1	0.66	Oct 13 1977
ANNUAL SEVEN-DAY MINIMUM	0.86	Sep 29	0.88	Oct 1	0.67	Oct 13 1977
MAXIMUM PEAK FLOW			38	May 30	150	Jun 18 1982
MAXIMUM PEAK STAGE			a2.99	Dec 19	3.77	Jan 23 1973
ANNUAL RUNOFF (AC-FT)	2100		3430		5890	
10 PERCENT EXCEEDS	5.6		12		20	
50 PERCENT EXCEEDS	2.3		2.6		4.4	
90 PERCENT EXCEEDS	0.96		1.1		1.7	

a Backwater from ice.
e Estimated

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1978-1984, 1988 to current year.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
05...	1310	.90	--	--	--	--	77	16.0	10.0
NOV									
05...	1440	1.3	--	--	--	--	80	14.0	7.0
DEC									
04...	1525	E2.8	600	11.6	101	7.4	81	-1.5	.0
JAN									
07...	1320	3.4	--	--	--	--	130	8.0	3.5
FEB									
04...	1330	2.4	--	--	--	--	100	4.0	1.0
MAR									
04...	1400	3.2	--	--	--	7.4	126	8.0	4.5
21...	1245	3.1	--	--	--	--	139	13.5	5.5
29...	1530	4.8	--	--	--	--	142	12.5	7.5
APR									
01...	1125	5.6	--	--	--	--	118	11.0	5.0
02...	1740	9.0	--	--	--	--	103	11.5	7.0
05...	1645	9.3	--	--	--	--	96	8.0	6.0
08...	1905	9.7	--	--	--	--	81	8.5	6.5
22...	1645	7.8	--	--	--	--	79	11.5	8.5
24...	1235	8.4	--	--	--	--	66	4.0	5.5
24...	1730	9.0	--	--	--	--	67	11.0	8.0
MAY									
06...	1440	11	--	--	--	--	57	14.5	9.0
13...	1655	17	--	--	--	--	43	14.5	8.0
16...	1740	24	--	--	--	--	36	16.0	8.0
17...	1745	30	--	--	--	--	32	15.5	8.0
24...	1610	15	--	--	--	--	41	10.0	9.5
29...	1650	28	--	--	--	--	32	20.0	12.0
30...	1245	24	--	--	--	--	33	20.0	9.5
JUN									
03...	1800	24	604	8.8	100	6.5	32	15.5	10.5
JUL									
01...	1345	3.8	--	--	--	--	56	23.5	13.5
17...	1625	3.4	--	--	--	--	80	10.5	11.5
17...	1725	3.0	--	--	--	--	84	11.5	11.5
AUG									
13...	1445	.96	609	7.8	99	7.0	70	23.0	16.0
SEP									
16...	1250	1.3	--	--	--	--	75	15.0	9.0

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
05...	<.003	.04	.002	.023	.013	326	--	2	<.01
NOV									
05...	.003	.16	.004	.019	.004	338	--	2	.01
DEC									
04...	.006	.14	.003	.018	.007	320	--	6	E.05
JAN									
07...	.004	.21	.008	.024	.006	547	--	5	.05
FEB									
04...	<.003	.12	.012	.014	.003	338	--	2	.01
MAR									
04...	.004	.15	.012	.023	.006	--	--	3	.03
21...	<.003	.22	.006	.015	.004	598	--	3	.03
29...	.003	.73	.036	.067	.009	1620	--	18	.23
APR									
01...	<.003	.30	.033	.034	.007	915	--	7	.11
02...	<.003	.79	.045	.164	.009	887	--	58	1.4
05...	<.003	.21	.025	.043	.008	1270	--	12	.30
08...	.003	.06	.017	.047	.007	E363	--	14	.37
22...	.003	.36	.007	.027	.005	942	--	16	.34
24...	.003	.41	.009	.032	.005	1230	--	8	.18
24...	.003	.24	.007	.024	.005	840	--	6	.15
MAY									
06...	<.003	.26	.005	.029	.005	947	--	8	.24
13...	<.003	.26	.004	.087	.005	1860	--	34	1.6
16...	<.003	.72	.003	.089	.006	2620	--	69	4.5
17...	<.003	<.04	.004	.322	.007	100	27	208	16.8
24...	.004	.24	.003	.024	.005	608	--	6	.24
29...	<.003	.38	.005	.064	.005	1750	--	48	3.6
30...	<.003	.55	.006	.029	.004	608	--	21	1.4
JUN									
03...	<.003	.11	.003	.030	.006	468	--	9	.58
JUL									
01...	<.003	.12	.005	.035	.009	408	--	2	.02
17...	.004	.97	.008	.154	.016	3680	--	24	.22
17...	.004	1.9	.010	.884	.020	13500	96	304	2.5
AUG									
13...	.003	.10	.016	.023	.013	419	--	3	.01
SEP									
16...	.003	.07	.004	.019	.011	292	--	2	.01

Remark Codes Used in This report:
  < -- Less than
  E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'32", long 119°55'20", in SE $^1/_4$ SE $^1/_4$ sec.11, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 900 ft upstream from Tirol Drive, and about 1.5 mi northeast of Incline Village.

DRAINAGE AREA.--2.85 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,920 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft^3/s, June 26, 1995 and January 2, 1997, gage height, 2.62 ft, maximum gage height, 2.71 ft; minimum daily, 0.18 ft^3/s, August 19, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft^3/s or maximum::

	Date	Time	Discharge (ft^3/s)	Gage height (ft)		Date	Time	Discharge (ft^3/s)	Gage height (ft)
	Mar 16	0515	13	1.91	May 17	1745	14	1.88	May 17

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.57	0.93	1.1	1.1	e1.1	e1.9	3.4	4.6	8.4	3.0	1.6	1.2
2	0.56	0.88	1.2	1.1	e1.1	e1.9	4.0	4.7	7.8	2.9	1.6	1.2
3	0.57	0.87	1.2	1.0	e1.1	e1.5	5.1	6.0	7.3	2.8	1.6	1.1
4	0.58	0.86	1.2	1.00	e1.2	e1.4	5.8	7.4	6.9	2.8	1.6	1.1
5	0.59	0.87	1.1	0.95	e1.2	1.3	5.4	8.4	6.6	2.9	1.6	1.2
6	0.61	0.84	1.1	1.7	e1.2	1.3	5.2	9.2	6.5	2.8	1.6	1.4
7	0.62	0.84	1.2	1.4	e1.2	1.3	5.4	9.5	6.2	2.7	1.6	1.5
8	0.65	0.85	1.1	1.3	e1.2	1.3	5.9	9.2	5.9	2.6	1.5	1.4
9	0.68	0.87	1.1	1.2	e1.1	1.3	5.3	9.3	5.9	2.4	1.5	1.2
10	0.69	0.89	1.1	1.1	e1.2	1.2	5.8	8.7	5.6	2.3	1.4	1.2
11	0.68	1.6	1.1	1.1	e1.2	1.2	6.9	8.6	5.5	2.3	1.4	1.2
12	0.68	1.2	1.1	1.2	e1.3	1.3	8.1	9.2	5.2	2.4	1.4	1.2
13	0.68	1.1	1.0	1.2	e1.3	1.2	8.6	9.9	5.0	2.5	1.4	1.1
14	0.69	1.3	1.0	1.1	e1.3	1.2	9.0	10	4.9	2.3	1.5	1.1
15	0.70	1.2	1.0	1.2	e1.4	e1.3	8.0	10	4.6	2.2	1.4	1.1
16	0.70	1.1	1.0	1.2	e1.3	e1.3	5.9	10	4.4	2.1	1.4	1.2
17	0.73	1.0	1.0	1.2	e1.3	e1.3	5.0	11	4.5	2.6	1.2	1.2
18	0.74	0.99	1.0	1.1	e1.3	1.3	4.3	11	4.6	2.7	1.2	1.2
19	0.73	0.95	1.0	1.1	e1.3	1.4	3.8	11	4.4	2.4	1.2	1.2
20	0.73	0.96	1.0	1.1	e1.6	1.4	3.7	9.7	4.4	2.2	1.2	1.1
21	0.73	1.4	1.0	1.1	e1.6	1.4	3.9	8.9	4.2	2.1	1.3	1.1
22	0.75	2.0	1.0	1.1	e1.7	1.4	4.4	8.6	4.2	2.0	1.3	1.0
23	0.78	1.2	1.0	1.1	e1.8	1.4	5.0	8.4	4.0	1.9	1.3	1.0
24	0.77	1.8	0.98	1.1	e1.6	1.3	5.5	8.4	3.9	1.8	1.3	1.0
25	0.78	1.6	0.95	1.1	e1.6	1.3	6.4	8.6	3.7	1.8	1.2	1.0
26	0.78	1.5	0.95	1.1	e1.6	1.3	6.2	8.4	3.8	1.8	1.3	1.1
27	0.79	1.3	0.95	1.1	e1.6	1.6	5.5	8.3	3.7	1.8	1.3	1.1
28	0.79	1.2	0.97	e1.5	e1.6	1.9	5.3	8.4	3.4	1.7	1.3	1.1
29	0.79	1.2	1.1	e1.4	---	2.3	5.1	8.5	3.3	1.7	1.3	1.2
30	1.1	1.3	1.2	e1.3	---	2.6	4.8	8.5	3.1	1.7	1.3	1.2
31	1.1	---	1.1	e1.2	---	3.0	---	8.5	---	1.6	1.3	---
TOTAL	22.34	34.60	32.80	36.45	38.0	46.8	166.7	270.9	151.9	70.8	43.1	34.9
MEAN	0.721	1.153	1.058	1.176	1.357	1.510	5.557	8.739	5.063	2.284	1.390	1.163
MAX	1.1	2.0	1.2	1.7	1.8	3.0	9.0	11	8.4	3.0	1.6	1.5
MIN	0.56	0.84	0.95	0.95	1.1	1.2	3.4	4.6	3.1	1.6	1.2	1.0
AC-FT	44	69	65	72	75	93	331	537	301	140	85	69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	2.056	2.109	2.003	2.274	2.063	2.892	5.366	9.986	9.909	5.714	2.909	2.063
MAX	3.99	3.60	3.57	7.42	3.94	5.39	11.0	21.6	26.8	22.5	9.30	5.05
(WY)	1996	1999	1996	1997	1996	1997	1997	1997	1995	1995	1995	1995
MIN	0.54	0.75	0.83	0.72	0.92	1.16	2.56	1.60	0.77	0.61	0.25	0.26
(WY)	1993	1993	1993	1991	1993	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	559.97		949.29			
ANNUAL MEAN	1.534		2.601		4.288	
HIGHEST ANNUAL MEAN					7.56	1995
LOWEST ANNUAL MEAN					1.02	1992
HIGHEST DAILY MEAN	4.7	Mar 28	11	May 17	36	Jun 26 1995
LOWEST DAILY MEAN	0.48	Aug 18	0.56	Oct 2	0.18	Aug 19 1992
ANNUAL SEVEN-DAY MINIMUM	0.50	Aug 13	0.59	Oct 1	0.21	Aug 1 1992
MAXIMUM PEAK FLOW			14	May 17	52	Jun 26 1995
MAXIMUM PEAK STAGE			1.91	Apr 14	2.71	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	1110		1880		3110	
10 PERCENT EXCEEDS	3.3		6.9		10	
50 PERCENT EXCEEDS	1.2		1.3		2.6	
90 PERCENT EXCEEDS	0.55		0.88		0.75	

e Estimated

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
05...	0905	.67	--	--	--	--	47	9.0	6.5
NOV									
05...	1005	.89	--	--	--	--	45	10.5	3.0
DEC									
04...	1010	1.4	584	13.1	119	7.9	42	1.0	.5
JAN									
07...	0845	1.4	--	--	--	--	39	5.5	2.0
FEB									
04...	0750	1.1	--	--	--	--	44	<-5.0	.0
MAR									
04...	0740	E1.4	--	--	--	7.0	42	-5.0	.5
29...	1135	1.7	--	--	--	--	36	7.0	2.5
APR									
01...	0820	2.7	--	--	--	--	32	.0	1.5
09...	1430	4.8	--	--	--	--	30	3.5	3.0
24...	1345	4.3	--	--	--	--	30	13.5	4.5
MAY									
06...	1115	7.5	--	--	--	--	29	9.0	3.5
13...	1420	9.1	--	--	--	--	28	15.0	7.0
16...	1440	11	--	--	--	--	27	18.0	8.0
JUN									
03...	1345	7.0	590	8.8	100	7.6	29	16.5	9.5
JUL									
01...	1025	3.4	--	--	--	--	36	16.0	7.5
AUG									
13...	0840	1.8	596	9.2	102	--	37	11.5	9.0
SEP									
16...	1025	1.3	--	--	--	--	39	11.5	5.0

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
05...	<.003	.19	.002	.021	.010	121	3	.01
NOV								
05...	.003	.15	.002	.014	.009	92	2	<.01
DEC								
04...	.007	.15	.003	.008	.005	687	2	.01
JAN								
07...	.005	.19	.007	.029	.009	244	4	.02
FEB								
04...	<.003	.23	.030	.018	.008	98	1	<.01
MAR								
04...	.004	.18	.039	.021	.011	119	2	E.01
29...	.004	.46	.050	.027	.009	288	6	.03
APR								
01...	.004	.64	.052	.034	.009	372	7	.05
09...	<.003	.57	.040	.034	.010	311	9	.12
24...	.003	.46	.029	.026	.009	214	5	.06
MAY								
06...	<.003	.35	.028	.032	.010	322	10	.20
13...	.003	.35	.020	.065	.009	591	14	.34
16...	<.003	.32	.017	.043	.010	576	18	.52
JUN								
03...	<.003	.16	.006	.028	.011	280	9	.17
JUL								
01...	<.003	.08	.010	.030	.011	119	1	.01
AUG								
13...	<.003	.28	.019	.023	.012	98	1	<.01
SEP								
16...	<.003	.15	.007	.019	.011	119	1	<.01

Remark Codes Used in This report:
  < -- Less than
  E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

103366995 INCLINE CREEK AT HIGHWAY 28 AT INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'44', long 119°56'17", in SE $^1/_4$ SE $^1/_4$ sec.15, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on left bank, 200 ft downstream from culverts on State Highway 28, 0.6 mi upstream from Lake Tahoe, and 1.8 mi southeast of intersection of State Highways 431 and 28.

DRAINAGE AREA.--4.54 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1989 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143 ft^3/s, January 2, 1997, gage height, 3.25 ft, maximum gage height, 3.51 ft, July 11, 1996; minimum daily, 0.56 ft^3/s, August 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft^3/s, April 14, gage height, 1.98 ft; minimum daily, 1.0 ft^3/s, October 25 and 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	1.8	1.8	1.7	2.7	5.6	5.8	7.8	2.9	1.7	1.2
2	1.2	1.2	1.9	2.0	1.6	2.7	6.4	5.9	7.4	2.8	1.7	1.2
3	1.2	1.1	1.6	1.8	1.6	2.4	7.6	6.9	7.3	2.7	1.7	1.2
4	1.3	1.1	e2.0	1.7	1.7	2.3	8.5	7.9	7.0	2.6	1.6	1.3
5	1.3	1.1	1.5	1.7	1.7	2.4	7.9	8.5	6.9	2.6	1.6	1.3
6	1.3	1.1	1.5	2.7	1.7	2.9	7.4	9.1	6.7	2.6	1.6	1.5
7	1.4	1.2	1.5	2.3	1.7	2.6	7.5	9.2	6.5	2.5	1.6	1.6
8	1.4	1.2	1.5	2.0	1.7	e2.6	8.0	8.9	6.3	2.5	1.5	1.5
9	1.4	1.2	1.5	1.8	1.6	2.6	7.3	9.0	6.1	2.4	1.5	1.5
10	1.4	1.2	1.5	1.7	1.7	2.3	7.7	8.5	5.9	2.3	1.4	1.4
11	1.4	1.9	e1.5	1.7	1.8	2.3	8.5	8.3	5.7	2.2	1.4	1.4
12	1.4	1.6	1.5	1.8	1.8	2.5	9.2	8.6	5.5	2.3	1.4	1.4
13	1.4	1.4	1.4	1.8	1.8	2.3	9.6	9.4	5.3	2.4	1.3	1.3
14	1.4	1.5	2.0	1.8	1.8	2.5	11	9.9	5.1	2.3	1.3	1.3
15	1.4	1.4	e1.7	e1.7	1.9	e2.6	9.7	10	4.9	2.2	1.2	1.3
16	1.4	1.3	e1.8	e1.7	1.9	e2.6	7.8	10	4.7	2.1	1.2	1.4
17	1.4	1.3	1.5	e1.6	1.9	e2.5	7.1	10	4.5	2.5	1.2	1.4
18	1.4	1.2	1.5	e1.6	1.8	e2.5	6.5	11	4.4	2.6	1.2	1.5
19	1.5	1.2	1.4	e1.6	1.9	2.4	6.0	10	4.2	2.3	1.2	1.4
20	1.4	1.3	1.5	e1.6	2.2	2.5	5.8	9.5	4.0	2.2	1.2	1.4
21	1.4	1.7	1.5	1.7	2.3	2.7	6.0	8.7	3.9	2.1	1.3	1.4
22	1.4	2.7	1.5	e1.6	2.5	2.9	6.3	8.4	3.7	2.0	1.3	1.3
23	1.4	1.6	1.4	e1.6	2.5	2.8	6.8	8.2	3.6	1.9	1.3	1.3
24	1.2	3.4	e1.5	e1.6	2.2	2.6	7.2	8.2	3.4	1.9	1.3	1.3
25	1.0	1.8	1.5	1.6	2.2	2.5	7.8	8.3	3.4	1.8	1.2	1.3
26	1.0	e1.7	1.5	1.6	2.3	2.7	7.5	8.1	3.3	1.9	1.3	1.3
27	1.1	e1.5	1.5	1.6	2.4	3.0	7.0	8.0	3.2	1.8	1.2	1.4
28	1.1	1.5	1.7	e2.0	2.4	3.5	6.7	8.0	3.1	1.7	1.3	1.4
29	1.1	1.5	1.7	e2.1	---	4.1	6.8	8.1	3.0	1.7	1.2	1.5
30	1.5	1.6	1.9	2.2	---	4.6	6.2	8.1	2.9	1.7	1.2	1.5
31	1.3	---	2.1	1.9	---	5.0	---	7.9	---	1.7	1.2	---
TOTAL	40.7	44.7	49.9	55.9	54.3	86.6	223.4	266.4	149.7	69.2	42.3	41.2
MEAN	1.313	1.490	1.610	1.803	1.939	2.794	7.447	8.594	4.990	2.232	1.365	1.373
MAX	1.5	3.4	2.1	2.7	2.5	5.0	11	11	7.8	2.9	1.7	1.6
MIN	1.0	1.1	1.4	1.6	1.6	2.3	5.6	5.8	2.9	1.7	1.2	1.2
AC-FT	81	89	99	111	108	172	443	528	297	137	84	82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	2.644	2.761	2.858	3.439	3.238	5.467	8.441	13.30	12.74	6.953	3.462	2.644
MAX	4.61	4.93	5.71	14.8	7.81	11.9	18.5	25.5	34.9	27.9	10.5	5.83
(WY)	1996	1997	1997	1997	1996	1997	1997	1996	1995	1995	1995	1995
MIN	0.95	1.22	1.21	1.19	1.41	2.25	3.63	1.98	1.26	0.87	0.65	0.67
(WY)	1993	1991	1993	1993	1991	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	732.17		1124.3			
ANNUAL MEAN	2.006		3.080		5.939	
HIGHEST ANNUAL MEAN					10.7	1995
LOWEST ANNUAL MEAN					1.54	1992
HIGHEST DAILY MEAN	5.7	Mar 28	11	Apr 14	85	Jan 2 1997
LOWEST DAILY MEAN	0.74	Aug 19	1.0	Oct 25	0.56	Aug 20 1992
ANNUAL SEVEN-DAY MINIMUM	0.76	Aug 29	1.1	Oct 23	0.60	Aug 6 1992
MAXIMUM PEAK FLOW			16	Apr 14	143	Jan 2 1997
MAXIMUM PEAK STAGE			a2.04	Dec 15	3.51	Jul 11 1996
ANNUAL RUNOFF (AC-FT)	1450		2230		4300	
10 PERCENT EXCEEDS	3.8		7.8		15	
50 PERCENT EXCEEDS	1.6		1.8		3.5	
90 PERCENT EXCEEDS	0.86		1.3		1.2	

e Estimated
a Backwater from ice

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
05...	1045	1.4	--	--	--	--	74	16.0	10.0
NOV									
05...	1155	1.2	--	--	--	--	63	13.5	5.0
DEC									
04...	1210	4.1	597	11.0	98	7.0	67	.0	.5
JAN									
07...	1050	2.1	--	--	--	--	70	9.0	2.5
FEB									
04...	1040	2.1	--	--	--	--	66	.0	.0
MAR									
04...	1030	2.2	604	--	--	6.8	75	4.0	1.0
29...	1310	3.5	--	--	--	--	80	4.5	5.0
APR									
01...	1000	4.6	--	--	--	--	70	2.5	3.0
09...	1540	6.9	--	--	--	--	62	5.0	4.0
24...	1455	6.7	--	--	--	--	48	15.5	6.5
MAY									
06...	1240	7.6	--	--	--	--	41	13.0	5.5
13...	1515	9.4	--	--	--	--	37	14.0	8.0
16...	1545	10	--	--	--	--	35	17.5	9.0
JUN									
03...	1520	7.1	602	8.8	100	7.2	35	18.0	10.5
JUL									
01...	1150	3.1	--	--	--	--	46	22.5	10.0
AUG									
13...	1045	1.5	609	8.6	98	7.0	50	20.0	11.0
SEP									
16...	1115	1.6	--	--	--	--	53	13.5	7.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
05...	<.003	.17	.003	.029	.010	693	6	.02
NOV								
05...	<.003	.12	.007	.019	.011	423	3	.01
DEC								
04...	.006	.18	.007	.022	.005	90	6	.07
JAN								
07...	.006	.23	.013	.038	.009	881	6	.03
FEB								
04...	.008	.13	.031	.021	.005	626	5	.03
MAR								
04...	.008	.19	.043	--	.007	805	6	.04
29...	.006	.51	.050	.045	.010	1420	11	.10
APR								
01...	.003	.45	.060	.041	.009	1150	14	.17
09...	.004	.22	.066	.037	.010	1020	48	.89
24...	.006	.31	.041	.037	.010	772	10	.18
MAY								
06...	<.003	.29	.037	.034	.010	861	15	.31
13...	<.003	.35	.027	.059	.011	1250	38	.96
16...	<.003	.31	.027	.055	.011	989	34	.92
JUN								
03...	.004	.26	.013	.029	.010	631	15	.29
JUL								
01...	<.003	.07	.016	.033	.010	493	6	.05
AUG								
13...	<.003	.17	.025	.028	.011	608	4	.02
SEP								
16...	.003	.05	.012	.027	.011	536	3	.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

103366997 INCLINE CREEK TRIBUTARY AT COUNTRY CLUB DRIVE NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'52", long 119°56'32", in NW$^1/_4$ SE$^1/_4$ sec.10, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 20 feet upstream of culvert on Country Club Drive, 300 ft upstream of junction of Country Club Drive and Village Boulevard, and 1.2 mi north of Incline Village.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1989, water years 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
18...	1525	1.3	588	10.0	97	7.3	295	1.5	3.0
APR									
09...	1300	3.2	--	--	--	--	216	6.5	5.5
MAY									
06...	1755	1.7	--	--	--	--	192	11.5	9.0
JUN									
11...	1545	.92	597	8.2	96	7.9	164	21.5	11.5
AUG									
06...	1120	1.1	597	8.6	96	7.2	142	15.0	9.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
18...	.006	.24	.085	.019	.004	615	7	.02
APR								
09...	.004	.20	.092	.036	.007	740	20	.17
MAY								
06...	.003	.21	.042	.029	.007	619	9	.04
JUN								
11...	.004	.15	.029	.022	.009	643	5	.01
AUG								
06...	.013	.09	.043	.042	.009	364	5	.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'25", long 119°56'38", in $SW^1/_4\ NE^1/_4$ sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 500 ft upstream from culvert on Lakeshore Boulevard, 1,000 ft upstream from mouth, just below confluence with major tributary, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.69 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to September 1975, November 1987 to current year (low flow, partial-record site only, October 1966 to September 1969, October 1973 to February 1975).

GAGE.--Water-stage recorder. Datum of gage is 6,246.90 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regular diversion above station. Possibly some light pumping or diversion of water for construction or irrigation. Flow temporarily diverted to Third Creek beginning August 23, 1999 to October 1, 1999, for Incline Creek restoration project. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft^3/s, January 2, 1997, gage height, 3.87 ft; minimum daily, 0.18 ft^3/s, September 1, 3, 1999 (during diversion to Third Creek).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22.0 ft^3/s, April 14, gage height, 2.19 ft; minimum daily, 1.7 ft^3/s, October 1-5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.1	2.9	3.3	e3.3	4.5	9.7	8.8	10	4.0	2.4	2.0
2	1.7	2.0	3.4	3.9	3.3	4.4	11	9.1	9.9	3.9	2.4	2.0
3	1.7	1.9	2.8	3.6	3.3	4.3	12	10	9.7	3.9	2.4	1.9
4	1.7	1.9	3.1	3.1	3.3	4.2	13	11	9.5	3.8	2.4	1.9
5	1.7	1.9	2.7	3.2	3.1	4.3	12	12	9.4	3.8	2.4	2.0
6	1.8	1.9	2.7	5.2	2.9	5.5	12	13	9.2	3.7	2.4	2.3
7	1.8	1.9	2.7	4.3	2.8	4.7	12	13	8.9	3.6	2.4	2.3
8	1.9	1.9	2.7	3.8	2.8	4.4	12	12	8.6	3.5	2.3	2.3
9	2.0	1.9	2.7	3.5	2.8	4.2	11	13	8.4	3.2	2.2	2.2
10	2.0	1.9	2.6	3.3	2.9	3.9	11	12	8.2	3.2	2.2	2.1
11	2.0	3.0	2.6	3.2	3.0	4.0	12	12	7.9	3.2	2.2	2.0
12	2.0	2.7	2.6	3.3	3.0	4.3	13	12	7.4	3.2	2.1	2.0
13	2.0	2.4	2.5	3.3	3.0	4.0	14	13	7.2	3.3	2.0	2.0
14	2.0	2.4	3.4	3.2	3.0	3.8	16	13	6.7	3.2	2.1	2.0
15	2.0	2.3	2.6	e3.2	e3.1	4.0	14	13	6.5	3.1	2.1	1.9
16	2.0	2.2	3.0	e3.1	3.4	3.8	12	13	6.2	3.1	2.1	2.0
17	2.0	2.1	2.6	e3.1	3.4	3.6	11	14	6.0	3.9	2.0	2.1
18	2.1	2.1	2.5	e3.1	3.3	3.8	9.8	14	6.0	3.9	2.0	2.1
19	2.3	2.0	2.5	e3.1	3.3	3.9	9.5	14	5.8	3.4	2.0	2.0
20	2.2	2.0	2.5	e2.9	4.0	4.2	9.1	13	5.6	3.2	2.1	2.0
21	2.2	2.9	2.5	2.9	4.3	4.7	9.3	12	5.6	3.1	2.2	2.0
22	2.3	4.7	2.5	2.9	4.9	5.1	9.5	12	5.4	3.0	2.2	1.9
23	2.3	2.6	2.5	e2.9	5.0	5.0	10	11	5.2	2.9	2.2	1.9
24	2.0	6.7	2.7	e2.8	4.4	4.3	10	11	5.0	2.8	2.1	1.9
25	1.8	3.1	2.5	2.8	4.5	4.2	11	11	4.9	2.8	2.1	1.9
26	1.8	2.7	2.5	2.8	4.7	4.6	11	11	4.7	2.7	2.1	1.9
27	1.8	2.6	2.6	2.7	4.6	5.3	10	11	4.6	2.6	2.1	1.9
28	1.8	2.6	2.9	3.1	4.6	6.3	9.7	11	4.4	2.5	2.1	2.0
29	1.8	2.6	3.3	e3.0	---	7.5	10	11	4.3	2.4	2.1	2.2
30	2.4	2.5	3.5	e3.1	---	8.2	9.4	11	4.2	2.5	2.1	2.3
31	2.3	---	4.0	e3.2	---	8.9	---	11	---	2.4	2.1	---
TOTAL	61.1	75.5	86.6	100.9	100.0	147.9	336.0	367.9	205.4	99.8	67.6	61.0
MEAN	1.971	2.517	2.794	3.255	3.571	4.771	11.20	11.87	6.847	3.219	2.181	2.033
MAX	2.4	6.7	4.0	5.2	5.0	8.9	16	14	10	4.0	2.4	2.3
MIN	1.7	1.9	2.5	2.7	2.8	3.6	9.1	8.8	4.2	2.4	2.0	1.9
AC-FT	121	150	172	200	198	293	666	730	407	198	134	121

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2002, BY WATER YEAR (WY)

MEAN	3.937	4.162	4.353	5.298	5.288	8.120	11.20	16.64	14.95	8.007	4.474	3.510
MAX	6.79	6.76	8.78	19.6	12.2	16.9	23.1	36.7	48.4	35.0	14.4	8.66
(WY)	1996	1999	1997	1997	1996	1997	1997	1996	1995	1995	1995	1995
MIN	1.35	1.82	2.07	2.06	2.64	3.72	3.55	2.71	2.04	1.19	0.99	0.44
(WY)	1989	1993	1993	1993	1991	1992	1988	1988	1988	1988	1988	1999

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1970 - 2002	
ANNUAL TOTAL	1091.8		1709.7			
ANNUAL MEAN	2.991		4.684		7.692	
HIGHEST ANNUAL MEAN					15.4	1995
LOWEST ANNUAL MEAN					2.51	1992
HIGHEST DAILY MEAN	7.5	Mar 28	16	Apr 14	112	Jan 2 1997
LOWEST DAILY MEAN	1.1	Aug 18	1.7	Oct 1	0.18	Sep 1 1999
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 13	1.7	Oct 1	0.21	Aug 30 1999
MAXIMUM PEAK FLOW			22	Apr 14	179	Jan 2 1997
MAXIMUM PEAK STAGE			2.19	Apr 14	3.87	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	2170		3390		5570	
10 PERCENT EXCEEDS	5.4		11		17	
50 PERCENT EXCEEDS	2.6		3.1		5.1	
90 PERCENT EXCEEDS	1.3		2.0		2.0	

e Estimated

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1978-79, 1988 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1998 to November 2000 (discontinued).

INSTRUMENTATION.--Water temperature recorder since April 1998, two times per hour.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 16.0°C, September 7, 10, 11, 15, 1999; minimum, freezing point many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
05...	1230	1.9	--	--	--	--	91	17.5	10.5
NOV									
05...	1355	1.9	--	--	--	--	92	15.0	7.0
DEC									
04...	1445	2.8	599	11.2	99	7.4	117	.0	.5
JAN									
07...	1210	4.0	--	--	--	--	138	10.5	3.5
FEB									
04...	1215	3.3	--	--	--	--	117	5.1	.5
MAR									
04...	1230	4.0	605	--	--	7.7	141	6.0	3.0
21...	1145	4.2	--	--	--	--	148	12.0	3.5
29...	1425	7.4	--	--	--	--	151	14.5	7.0
APR									
01...	1240	8.2	--	--	--	--	135	10.5	6.0
02...	1840	14	--	--	--	--	108	8.0	5.0
05...	1750	14	--	--	--	--	106	7.0	5.0
09...	1640	11	--	--	--	--	109	6.5	4.5
22...	1555	9.5	--	--	--	--	91	14.0	8.0
24...	1120	9.3	--	--	--	--	83	11.5	4.5
24...	1630	10	--	--	--	--	81	14.0	7.5
MAY									
06...	1340	11	--	--	--	--	68	16.0	7.5
13...	1605	13	--	--	--	--	56	16.5	9.0
16...	1645	14	--	--	--	--	53	18.0	9.5
17...	1655	16	--	--	--	--	50	17.5	10.5
JUN									
03...	1640	9.5	605	8.9	103	7.3	52	19.0	11.5
JUL									
01...	1250	4.4	--	--	--	--	67	22.5	11.5
17...	1600	4.4	--	--	--	--	82	12.5	9.5
AUG									
13...	1250	2.3	610	8.4	100	7.0	79	23.0	13.0
SEP									
16...	1200	2.3	--	--	--	--	88	15.5	8.0

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
05...	<.003	.07	.005	.034	.010	772	--	12	.06
NOV									
05...	.003	.09	.006	.018	.009	376	--	3	.02
DEC									
04...	.007	.32	.009	.044	.005	1110	--	7	.05
JAN									
07...	.011	.24	.020	.030	.008	769	--	5	.05
FEB									
04...	.006	.10	.035	.017	.004	526	--	4	.04
MAR									
04...	.007	--	.052	.024	.006	732	--	7	.08
21...	.003	.22	.037	.020	.005	829	--	3	.03
29...	.005	.52	.057	.055	.011	420	--	19	.38
APR									
01...	<.003	.42	.068	.040	.009	1190	--	13	.29
02...	.004	1.3	.068	.072	.009	346	64	143	5.4
05...	.004	.37	.056	.088	.010	448	--	34	1.3
09...	<.003	.29	.063	.033	.009	882	--	8	.24
22...	.004	.31	.039	.037	.009	1030	--	11	.28
24...	.005	.31	.039	.026	.007	754	--	6	.15
24...	.005	.42	.039	.100	.008	543	--	35	.95
MAY									
06...	.003	.35	.032	.053	.010	1170	--	13	.39
13...	<.003	.23	.025	.068	.010	2270	--	26	.91
16...	<.003	.11	.022	.076	.010	1110	--	20	.76
17...	<.003	.66	.021	.080	.011	812	32	41	1.8
JUN									
03...	.004	.17	.010	.036	.010	650	--	16	.41
JUL									
01...	.003	.11	.015	.052	.010	676	--	4	.05
17...	.007	1.6	.012	.176	.030	5700	70	82	.97
AUG									
13...	<.003	.19	.021	.032	.012	586	--	5	.03
SEP									
16...	<.003	.12	.012	.028	.011	526	--	2	.01

Remark Codes Used in This report:
< -- Less than

10336710 MARLETTE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'22", long 119°54'15", in SW $^1/_4$ SE $^1/_4$ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on west shore, about 1,000 ft east from left side of dam on Marlette Creek, and 7.5 mi west of Carson City.

DRAINAGE AREA.--2.86 mi^2.

PERIOD OF RECORD.--November 1973 to current year.

REVISED RECORDS.--WDR NV-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is above NGVD of 1929 (spillway elevation furnished in written communication, 1971).

REMARKS.--Lake is formed by earthfill dam across the outlet of a small natural lake (at one time called Goodwin Lake) on Marlette Creek, built in 1873 to provide water for fluming lumber from Spooner Summit to Carson City. The dam was built higher in 1876 and used to divert water by flume and siphon to Virginia City, until the flume was abandoned prior to 1963. The dam was raised to its present elevation in 1959. Present capacity, 11,780 acre-ft at spillway; elevation, 7,838.0 ft. Figures given herein represent total contents. Stored water is used for spawning cutthroat trout and in dry years is pumped over the mountain to the Hobart system for municipal and domestic use outside the basin in Virginia City and Carson City. Lake freezes over in winter. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded contents, 12,320 acre-ft, February 19, 1986, elevation, 7,839.23 ft; minimum, 10,970 acre-ft, November 10-13, 1976, elevation, 7,835.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 11,970 acre-ft, April 18, elevation, 7,838.44 ft; minimum, 10,980 acre-ft, November 7, and 22, elevation, 7,835.88 ft.

Capacity table (elevation, in feet, contents, in acre-feet)

7,835	10,650	7,838	11,790
7,836	11,030	7,839	12,220
7,837	11,410	7,840	12,650

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11120	11010	11170	11470	11610	11720	11870	11950	11910	11800	11620	11320
2	11110	11000	11270	11480	11620	11730	11880	11940	11900	11800	11610	11310
3	11110	11000	11270	11500	11620	11730	11880	11950	11900	11790	11600	11300
4	11110	11000	11270	11510	11620	11730	11880	11950	11900	11790	11580	11280
5	11110	11000	11270	11520	11620	11730	11880	11950	11900	11780	11570	11270
6	11100	11000	11280	11530	11620	11790	11890	11950	11890	11780	11570	11250
7	11100	11000	11280	11530	11630	11810	11890	11950	11880	11770	11550	11250
8	11090	10990	11280	11530	11640	11820	11890	11950	11890	11770	11540	11240
9	11090	10990	11280	11540	11640	11810	11890	11940	11870	11760	11530	11220
10	11080	10990	11290	11540	11650	11830	11900	11950	11860	11750	11520	11220
11	11070	11000	11290	11540	11650	11830	11900	11940	11870	11740	11520	11210
12	11060	11010	11290	11540	11650	11830	11900	11940	11860	11740	11510	11200
13	11050	11020	11310	11540	11650	11840	11910	11940	11860	11730	11500	11200
14	11050	11020	11330	11540	11650	11850	11910	11940	11860	11720	11490	11190
15	11040	11020	11330	11540	11660	11850	11930	11940	11850	11710	11480	11170
16	11040	11020	11340	11540	11660	11850	11940	11940	11850	11700	11470	11170
17	11030	11010	11370	11550	11680	11860	11960	11950	11850	11730	11460	11160
18	11030	11010	11370	11550	11690	11860	11970	11950	11840	11730	11450	11150
19	11030	11010	11360	11560	11710	11860	11970	11940	11840	11730	11440	11140
20	11030	11000	11390	11560	11710	11860	11960	11950	11830	11720	11420	11130
21	11020	11030	11390	11560	11710	11860	11950	11950	11830	11710	11410	11120
22	11020	11050	11410	11570	11710	11860	11950	11940	11830	11710	11410	11120
23	11010	11050	11420	11570	11720	11880	11940	11940	11830	11700	11390	11110
24	11010	11100	11420	11570	11720	11880	11940	11930	11830	11690	11390	11100
25	11010	11110	11420	11570	11720	11880	11940	11940	11830	11680	11380	11090
26	11010	11100	11420	11580	11720	11880	11940	11930	11820	11670	11370	11080
27	11000	11110	11430	11590	11720	11880	11940	11930	11820	11660	11360	11080
28	11000	11110	11440	11610	11720	11870	11940	11920	11810	11650	11350	11060
29	11000	11140	11450	11610	---	11870	11960	11920	11810	11650	11340	11060
30	11010	11140	11470	11610	---	11870	11950	11910	11810	11630	11330	11050
31	11010	---	11470	11620	---	11870	---	11910	---	11630	11330	---
MAX	11120	11140	11470	11620	11720	11880	11970	11950	11910	11800	11620	11320
MIN	11000	10990	11170	11470	11610	11720	11870	11910	11810	11630	11330	11050
#	7835.94	7836.28	7837.16	7837.54	7837.81	7838.21	7838.39	7838.29	7838.04	7837.57	7836.78	7836.05
##	-110	+130	+330	+150	+100	+150	+80	-40	-100	-180	-300	-280

CAL YR 2001 MAX 12010 MIN 10990 ## -420
WTR YR 2002 MAX 11970 MIN 10990 ## -70

\# Elevation, in feet above NGVD 1929, at end of month.
Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336715 MARLETTE CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'20", long 119°54'25", in SE $^1/_4$ SW $^1/_4$ sec.12, T.15 N., R.18 E., Washoe County, Hydrologic Unit 16050101, in Toiyabe National Forest, on left bank, about 300 ft below dam on Marlette Lake (station 10336710), 0.7 mi upstream from Marlette Reservoir, and 7 mi west of Carson City.

DRAINAGE AREA.--2.90 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.-- WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,760 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. Flow regulated at Marlette Lake 300 ft upstream. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70 ft^3/s, February 20, 1986, gage height, 3.20 ft; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.3 ft^3/s, April 19, gage height, 2.06 ft; minimum daily, 0.01 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.09	e0.04	e0.03	e0.02	0.01	0.71	4.1	1.9	0.10	0.05	0.03
2	0.05	0.11	e0.04	e0.03	e0.02	0.01	0.83	3.9	1.6	0.13	0.04	0.03
3	0.04	0.14	e0.04	e0.03	e0.01	0.01	1.8	3.7	1.5	0.16	0.04	0.04
4	0.04	0.13	e0.04	e0.03	e0.01	0.01	2.0	3.3	1.4	0.11	0.04	0.04
5	0.04	0.12	e0.04	e0.03	e0.01	0.01	2.1	3.3	1.2	0.05	0.05	0.04
6	0.04	0.12	e0.03	e0.03	e0.01	0.01	2.1	3.4	1.2	0.05	0.05	0.04
7	0.03	0.12	e0.03	e0.03	e0.01	0.02	2.2	3.6	1.2	0.05	0.05	0.04
8	0.03	0.12	e0.03	e0.02	e0.01	0.02	2.4	3.4	1.2	0.05	0.05	0.04
9	0.04	0.12	e0.03	e0.04	e0.01	0.02	2.8	3.4	0.97	0.05	0.05	0.04
10	0.05	0.12	e0.03	e0.05	e0.01	0.02	2.6	3.3	0.83	0.05	0.05	0.03
11	0.05	0.12	e0.03	e0.05	e0.01	0.02	2.7	3.2	0.77	0.05	0.05	0.03
12	0.06	0.12	e0.03	e0.06	e0.01	0.52	2.8	3.1	0.65	0.05	0.05	0.03
13	0.06	0.13	e0.03	e0.06	e0.01	0.71	3.0	3.1	0.58	0.05	0.05	0.03
14	0.06	0.21	e0.03	e0.06	e0.01	0.65	3.6	3.1	0.56	0.05	0.06	0.03
15	0.06	0.23	e0.03	e0.06	e0.01	0.65	3.9	2.9	0.53	0.05	0.06	0.04
16	0.06	0.10	e0.03	e0.05	0.01	0.65	4.3	2.7	0.51	0.05	0.06	0.04
17	0.06	0.04	e0.03	e0.05	0.01	0.65	5.5	2.3	0.49	0.10	0.06	0.05
18	0.06	0.04	e0.04	e0.04	0.01	0.65	5.9	2.8	0.46	0.16	0.06	0.05
19	0.06	0.04	e0.04	e0.04	0.01	0.65	6.0	3.2	0.40	0.14	0.05	0.05
20	0.05	e0.04	e0.04	e0.04	0.01	0.65	5.6	3.7	0.35	0.08	0.05	0.05
21	0.07	e0.08	e0.04	e0.03	0.01	0.65	5.2	4.1	0.31	0.04	0.05	0.04
22	0.06	e0.08	e0.04	e0.03	0.01	0.65	4.7	3.9	0.30	0.04	0.06	0.05
23	0.06	e0.06	e0.04	e0.03	0.01	0.65	4.4	3.5	0.25	0.04	0.05	0.06
24	0.06	e0.05	e0.03	e0.03	0.01	0.65	4.2	3.1	0.25	0.04	0.05	0.06
25	0.06	e0.05	e0.03	e0.02	0.01	0.65	4.1	3.0	0.24	0.04	0.04	0.06
26	0.06	e0.04	e0.03	e0.02	0.01	0.65	3.5	2.8	0.24	0.04	0.03	0.06
27	0.06	e0.04	e0.04	e0.02	0.01	0.65	3.9	2.8	0.19	0.05	0.04	0.04
28	0.06	e0.04	e0.04	e0.02	0.01	0.65	3.8	2.7	0.15	0.05	0.04	0.03
29	0.08	e0.04	e0.04	e0.02	---	0.65	4.2	2.7	0.14	0.05	0.03	0.04
30	0.08	e0.04	e0.04	e0.02	---	0.65	4.3	2.4	0.12	0.05	0.03	0.04
31	0.09	---	e0.04	e0.02	---	0.66	---	2.2	---	0.05	0.03	---
TOTAL	1.72	2.78	1.09	1.09	0.30	13.10	105.14	98.7	20.49	2.07	1.47	1.25
MEAN	0.055	0.093	0.035	0.035	0.011	0.423	3.505	3.184	0.683	0.067	0.047	0.042
MAX	0.09	0.23	0.04	0.06	0.02	0.71	6.0	4.1	1.9	0.16	0.06	0.06
MIN	0.03	0.04	0.03	0.02	0.01	0.01	0.71	2.2	0.12	0.04	0.03	0.03
AC-FT	3.4	5.5	2.2	2.2	0.6	26	209	196	41	4.1	2.9	2.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

MEAN	0.509	1.311	2.008	2.923	4.154	3.892	4.240	5.365	4.414	1.494	0.448	0.263
MAX	3.55	12.2	9.71	11.2	17.4	8.65	7.13	11.5	29.8	12.9	4.18	3.46
(WY)	1984	1984	1984	1997	1986	1995	1982	1999	1983	1983	1983	1983
MIN	0.022	0.030	0.022	0.010	0.000	0.040	0.019	0.11	0.040	0.014	0.022	0.020
(WY)	1988	1980	1991	1993	1993	1977	1991	1977	1976	1990	1990	1975

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1974 - 2002	
ANNUAL TOTAL	329.34		249.20			
ANNUAL MEAN	0.902		0.683		2.574	
HIGHEST ANNUAL MEAN					8.29	1983
LOWEST ANNUAL MEAN					0.058	1977
HIGHEST DAILY MEAN	5.8	Apr 21	6.0	Apr 19	63	Feb 19 1986
LOWEST DAILY MEAN	0.00	Aug 20	0.00	Feb 3	0.00	Jul 12 1975
ANNUAL SEVEN-DAY MINIMUM	0.02	Aug 16	0.01	Feb 3	0.00	Jan 22 1993
MAXIMUM PEAK FLOW			6.3	Apr 19	70	Feb 20 1986
MAXIMUM PEAK STAGE			2.06	Apr 19	3.20	Feb 20 1986
ANNUAL RUNOFF (AC-FT)	653		494		1860	
10 PERCENT EXCEEDS	3.1		3.1		6.8	
50 PERCENT EXCEEDS	0.23		0.05		0.88	
90 PERCENT EXCEEDS	0.03		0.02		0.03	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336730 GLENBROOK CREEK AT GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°05'15", long 119°56'20", in NE $^1/_4$ SE $^1/_4$ sec.10, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 50 ft upstream from culvert, 100 ft upstream from mouth at Glenbrook, and 1.8 mi southwest of Spooner Lake.

DRAINAGE AREA.--4.11 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1967-1971. October 1971 to September 1975, November 1987 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above NGVD of 1929, from topographic map. Prior to November 16, 1987, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow may be affected by pumping or diverting for irrigation above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144 ft^3/s, January 2, 1997, gage height, 6.46 ft; no flow August 12, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft^3/s and maximum (*):

		Discharge	Gage height			Discharge	Gage height
Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
Nov 24	1115	*11	*2.15	April 14	2000	5.5	2.01

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.18	0.55	0.70	1.4	1.1	1.6	2.5	2.1	1.0	0.29	0.13	0.08
2	0.17	0.60	0.98	1.8	1.0	1.8	2.7	1.9	0.96	0.25	0.13	0.07
3	0.17	0.63	0.83	1.9	0.97	1.4	2.9	2.0	0.92	0.22	0.11	0.06
4	0.18	0.63	0.75	1.5	0.98	1.2	3.1	2.7	0.83	0.20	0.11	0.05
5	0.21	0.66	0.77	1.5	1.00	1.2	3.0	2.6	0.80	0.19	0.10	0.10
6	0.23	0.68	0.87	2.4	0.98	1.7	2.7	2.3	0.87	0.16	0.10	0.15
7	0.25	0.71	0.87	1.9	1.0	1.4	2.8	2.4	0.81	0.12	0.10	0.22
8	0.25	1.1	0.84	1.7	1.0	1.3	2.7	2.2	0.77	0.14	0.10	0.26
9	0.26	1.5	0.84	1.5	0.99	1.2	2.8	1.9	0.80	0.10	0.08	0.23
10	0.28	1.8	0.84	1.4	1.00	1.2	2.8	1.8	0.96	0.09	0.08	0.20
11	0.29	2.3	0.84	1.3	1.0	1.3	2.7	1.8	0.97	0.07	0.07	0.14
12	0.29	2.7	0.83	1.3	1.0	1.5	2.8	1.8	0.92	0.16	0.06	0.12
13	0.29	0.62	0.85	1.2	1.0	1.5	2.9	1.8	0.90	0.32	0.05	0.12
14	0.27	0.58	0.88	e1.1	1.1	1.4	3.5	1.9	0.86	0.25	0.05	0.11
15	0.28	0.57	0.99	e1.0	1.1	1.5	3.1	1.8	0.84	0.13	0.04	0.09
16	0.27	0.64	0.92	e1.0	1.2	1.3	2.2	1.6	0.80	0.13	0.04	0.12
17	0.28	0.69	0.93	e1.0	1.2	1.3	2.2	1.6	0.76	0.32	0.05	0.16
18	0.31	0.76	0.91	e1.0	1.2	1.4	2.2	1.5	0.76	0.68	0.04	0.19
19	0.31	0.77	0.92	1.00	1.3	1.2	2.1	1.5	0.75	0.49	0.04	0.18
20	0.28	0.83	0.94	0.99	1.8	1.3	2.2	1.6	0.67	0.30	0.05	0.17
21	0.31	1.3	1.0	1.0	1.5	1.4	2.2	1.6	0.31	0.28	0.06	0.17
22	0.36	5.3	1.0	1.1	1.5	1.6	2.1	1.5	0.32	0.24	0.07	0.16
23	0.38	3.3	1.0	e1.0	1.7	1.8	2.2	1.6	0.35	0.19	0.08	0.15
24	0.41	4.9	1.0	1.0	1.4	1.6	2.1	1.5	0.33	0.18	0.08	0.14
25	0.41	1.0	1.0	1.0	1.4	1.5	2.2	1.7	0.31	0.17	0.09	0.14
26	0.39	0.61	1.1	1.1	1.4	1.5	2.2	1.2	0.29	0.17	0.10	0.14
27	0.41	0.54	1.1	1.1	1.4	1.7	2.0	1.4	0.27	0.17	0.09	0.16
28	0.44	0.57	1.2	1.3	1.4	1.8	2.0	1.2	0.29	0.15	0.08	0.19
29	0.46	0.64	1.2	1.1	---	2.1	2.3	1.5	0.29	0.14	0.09	0.26
30	0.60	0.69	1.3	1.3	---	2.2	2.2	1.2	0.31	0.13	0.09	0.29
31	0.63	---	1.7	1.1	---	2.4	---	1.0	---	0.13	0.09	---
TOTAL	9.85	38.17	29.90	39.99	33.62	47.3	75.4	54.2	20.02	6.56	2.45	4.62
MEAN	0.32	1.27	0.96	1.29	1.20	1.53	2.51	1.75	0.67	0.21	0.079	0.15
MAX	0.63	5.3	1.7	2.4	1.8	2.4	3.5	2.7	1.0	0.68	0.13	0.29
MIN	0.17	0.54	0.70	0.99	0.97	1.2	2.0	1.0	0.27	0.07	0.04	0.05
AC-FT	20	76	59	79	67	94	150	108	40	13	4.9	9.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

MEAN	0.79	1.02	1.10	1.52	1.37	2.45	3.23	4.68	2.57	0.96	0.58	0.55
MAX	1.80	1.87	2.25	8.31	3.08	5.43	7.80	14.0	12.0	3.68	1.95	1.93
(WY)	1999	1999	1997	1997	1997	1997	1997	1999	1998	1998	1999	1998
MIN	0.16	0.31	0.34	0.32	0.41	0.66	0.63	0.33	0.24	0.076	0.014	0.036
(WY)	1993	1993	1991	1991	1991	1991	1992	1992	1992	1991	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1972 - 2002	
ANNUAL TOTAL	319.71		394.96			
ANNUAL MEAN	0.88		1.08		1.80	
HIGHEST ANNUAL MEAN					3.97	1998
LOWEST ANNUAL MEAN					0.36	1992
HIGHEST DAILY MEAN	5.3	Nov 22	5.3	Nov 22	85	Jan 2 1997
LOWEST DAILY MEAN	0.14	Sep 24	0.04	Aug 15	0.00	Aug 12 1994
ANNUAL SEVEN-DAY MINIMUM	0.17	Sep 22	0.04	Aug 13	0.00	Aug 11 1994
MAXIMUM PEAK FLOW			11	Nov 24	144	Jan 2 1997
MAXIMUM PEAK STAGE			2.16	Nov 24	6.46	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	634		783		1300	
10 PERCENT EXCEEDS	1.6		2.5		4.0	
50 PERCENT EXCEEDS	0.80		0.98		1.1	
90 PERCENT EXCEEDS	0.21		0.11		0.18	

e Estimated

10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, July 1987, 1988 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1998 to November 2000 (discontinued).

INSTRUMENTATION.--Water temperature recorder April 1998 to November 2000 (discontinued), two times per hour.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 16.0°C, June 15, 2000; minimum, freezing point several days in winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
01...	1155	.20	--	--	--	--	476	18.0	8.0
NOV									
08...	0740	1.3	--	--	--	--	446	-1.0	3.6
DEC									
05...	1255	.80	601	10.5	96	7.8	486	2.5	1.5
JAN									
07...	1515	1.7	--	--	--	--	619	10.0	3.5
FEB									
04...	1525	1.0	--	--	--	--	518	3.5	.5
MAR									
04...	1750	1.2	--	--	--	7.8	559	4.0	3.0
26...	1555	1.5	--	--	--	--	565	7.0	5.5
APR									
01...	1715	2.4	--	--	--	--	505	9.5	7.5
03...	1850	3.2	--	--	--	--	482	9.0	8.0
05...	1305	2.6	--	--	--	--	442	11.5	6.0
10...	1705	2.6	--	--	--	--	421	10.5	8.0
22...	1420	2.1	--	--	--	--	413	13.0	7.5
23...	1605	2.1	--	--	--	--	394	14.5	9.0
26...	1725	2.2	--	--	--	--	341	5.0	6.0
MAY									
07...	1850	1.8	--	--	--	--	331	10.5	10.0
17...	1315	1.8	--	--	--	--	341	18.5	11.0
JUN									
03...	1120	.92	605	8.9	97	7.9	385	14.0	9.0
JUL									
01...	1520	.27	--	--	--	--	467	25.0	13.5
AUG									
14...	1825	.03	608	6.5	80	7.6	495	20.0	14.4
SEP									
13...	1430	.12	--	--	--	--	514	22.0	10.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
01...	.005	.10	.002	.032	.016	351	2	<.01
NOV								
08...	<.003	.09	.004	.028	.013	502	32	.11
DEC								
05...	.004	.19	.008	.023	.009	574	5	.01
JAN								
07...	.007	.16	.004	.026	.008	333	3	.01
FEB								
04...	.003	.10	.007	.015	.005	257	1	<.01
MAR								
04...	.005	.14	.026	.018	.006	394	4	.01
26...	.004	.19	.005	.016	.005	325	3	.01
APR								
01...	.003	.33	.004	.032	.006	748	7	.05
03...	<.003	1.2	.004	.085	.007	585	30	.26
05...	.003	.23	.008	.035	.007	710	10	.07
10...	.003	.17	.004	.030	.007	526	9	.06
22...	.004	.20	.004	.022	.006	394	2	.01
23...	.003	.23	.004	.037	.007	1070	10	.06
26...	.003	.32	.005	.027	.007	598	10	.06
MAY								
07...	<.003	.35	.004	.026	.009	466	5	.02
17...	<.003	.17	.004	.023	.011	324	2	.01
JUN								
03...	<.003	.24	.004	.022	.011	228	18	.04
JUL								
01...	.007	.18	.013	.044	.016	460	2	<.01
AUG								
14...	.020	.35	.020	.085	.012	2270	16	<.01
SEP								
13...	.007	.13	.008	.030	.015	445	1	<.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336735 NORTH LOGAN HOUSE CREEK AT HIGHWAY 50 NEAR GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°04'08", long 119°56'24", in NW $^{1}/_{4}$ NE $^{1}/_{4}$ sec.22, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 200 ft upstream of culvert on U.S. Highway 50, 600 ft upstream of mouth, and 1.4 mi south of Glenbrook.

DRAINAGE AREA.--1.08 mi^2.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
20...	0815	1.1	609	11.3	100	7.7	84	-1.0	1.0
APR									
10...	1500	2.8	--	--	--	--	76	10.0	6.0
MAY									
07...	1700	1.6	--	--	--	--	81	12.0	8.0
JUN									
12...	1620	.53	607	8.8	99	7.9	93	22.5	10.5
AUG									
01...	1715	.28	607	9.0	105	7.7	99	22.5	12.0

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
20...	<.003	.24	.039	.013	.004	271	6	.02
APR								
10...	.004	.43	.017	.033	.007	1120	15	.11
MAY								
07...	<.003	.41	.020	.023	.006	513	8	.03
JUN								
12...	.004	.09	.024	.018	.006	355	8	.01
AUG								
01...	.006	.11	.027	.019	.004	201	5	<.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°04'00", long 119°56'04", in NW $^1/_4$ NW $^1/_4$ sec.23, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on right bank, 0.1 mi downstream from unnamed tributary, 0.3 mi upstream from U.S. Highway 50, and 1.6 mi south of Glenbrook.

DRAINAGE AREA.--2.09 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

RECISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,640 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. One small diversion 50 ft upstream from station for domestic use. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12.0 ft^3/s, January 2, 1997 and June 12, 1998, gage height, 4.75 ft; no flow many days in 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3.0 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 7	2015	4.0	4.47	No other peak above base discharge			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.13	0.24	0.26	0.38	0.40	0.39	0.80	0.62	0.11	0.04	0.06	0.13
2	0.13	0.23	0.26	0.42	0.40	0.37	0.97	0.67	0.13	0.04	0.06	0.11
3	0.13	0.22	0.27	0.41	0.40	0.37	1.4	0.66	0.13	0.04	0.07	0.09
4	0.14	0.23	0.27	0.38	0.39	0.36	1.6	0.66	0.15	0.04	0.06	0.09
5	0.15	0.23	0.26	0.39	0.40	0.37	1.5	0.59	0.12	0.04	0.06	0.09
6	0.15	0.23	0.26	0.64	0.40	0.37	2.1	0.59	0.12	0.04	0.08	0.10
7	0.15	0.22	0.26	0.47	0.39	0.36	1.8	0.57	0.12	0.03	0.08	0.11
8	0.17	0.22	0.26	0.45	0.39	0.33	1.5	0.47	0.11	0.03	0.07	0.11
9	0.17	0.22	0.27	0.44	0.40	0.32	1.7	0.45	0.11	0.04	0.07	0.11
10	0.18	0.22	0.27	0.45	0.39	0.28	1.8	0.38	0.11	0.04	0.07	0.11
11	0.19	0.27	0.26	0.47	0.41	0.30	1.6	0.32	0.13	0.04	0.06	0.11
12	0.19	0.27	0.25	0.47	0.41	0.37	1.4	0.30	0.10	0.04	0.06	0.10
13	0.19	0.29	0.26	0.47	0.42	0.40	1.5	0.31	0.10	0.04	0.07	0.10
14	0.19	0.32	0.27	0.47	0.41	0.38	2.0	0.32	0.10	0.04	0.07	0.09
15	0.19	0.29	0.28	e0.44	0.41	0.41	1.4	0.32	0.08	0.05	0.07	0.10
16	0.19	0.28	0.28	e0.44	0.42	0.37	0.84	0.29	0.05	0.04	0.09	0.11
17	0.19	0.26	0.30	e0.44	0.42	0.35	0.69	0.27	0.04	0.04	0.09	0.10
18	0.19	0.25	0.30	e0.44	0.39	0.31	0.58	0.26	0.05	0.10	0.08	0.10
19	0.20	0.25	0.30	e0.45	0.43	0.33	e0.60	0.22	0.05	0.11	0.08	0.10
20	0.19	0.25	0.30	e0.45	0.52	0.38	e0.50	0.25	0.04	0.07	0.09	0.10
21	0.20	0.32	0.30	e0.45	0.50	0.39	e0.55	0.27	0.04	0.06	0.09	0.10
22	0.20	0.38	0.30	0.44	0.52	0.44	e0.66	0.24	0.05	0.07	0.10	0.10
23	0.21	0.25	0.30	0.42	0.52	0.42	e0.66	0.20	0.05	0.14	0.10	0.10
24	0.20	0.43	0.30	0.39	0.45	0.39	e0.60	0.18	0.06	0.12	0.10	0.10
25	0.20	0.27	0.30	0.46	0.43	0.35	e0.60	0.19	0.05	0.12	0.10	0.09
26	0.21	0.25	0.32	0.45	0.44	0.34	e0.50	0.17	0.04	0.12	0.10	0.08
27	0.22	0.25	0.33	0.46	0.45	0.40	e0.50	0.15	0.05	0.12	0.11	0.08
28	0.21	0.25	0.34	0.46	0.44	0.47	e0.45	0.14	0.08	0.11	0.15	0.09
29	0.21	0.27	0.35	0.48	---	0.58	e0.60	0.13	0.05	0.17	0.16	0.10
30	0.28	0.25	0.37	0.41	---	0.64	0.65	0.12	0.04	0.13	0.13	0.10
31	0.29	---	0.42	0.39	---	0.71	---	0.11	---	0.07	0.11	---
TOTAL	5.84	7.91	9.07	13.78	11.95	12.25	32.05	10.42	2.46	2.18	2.69	3.00
MEAN	0.19	0.26	0.29	0.44	0.43	0.40	1.07	0.34	0.082	0.070	0.087	0.10
MAX	0.29	0.43	0.42	0.64	0.52	0.71	2.1	0.67	0.15	0.17	0.16	0.13
MIN	0.13	0.22	0.25	0.38	0.39	0.28	0.45	0.11	0.04	0.03	0.06	0.08
AC-FT	12	16	18	27	24	24	64	21	4.9	4.3	5.3	6.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

MEAN	0.37	0.44	0.43	0.44	0.41	0.67	1.36	1.55	0.90	0.40	0.25	0.27
MAX	1.10	1.48	1.49	1.29	1.00	1.59	2.96	4.89	3.81	1.53	1.02	1.06
(WY)	2000	1984	1984	1997	1984	2000	1999	1999	1998	1999	1999	1999
MIN	0.042	0.059	0.000	0.047	0.068	0.093	0.15	0.013	0.006	0.009	0.000	0.008
(WY)	1989	1992	1992	1992	1991	1991	1992	1992	1992	1991	1988	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1984 - 2002	
ANNUAL TOTAL	136.75		133.98			
ANNUAL MEAN	0.37		0.37		0.62	
HIGHEST ANNUAL MEAN					1.73	1999
LOWEST ANNUAL MEAN					0.051	1992
HIGHEST DAILY MEAN	2.0	Mar 25	3.3	Apr 20	8.7	Jan 2 1997
LOWEST DAILY MEAN	0.10	Jul 6	0.03	Jul 7	0.00	Jul 13 1988
ANNUAL SEVEN-DAY MINIMUM	0.11	Aug 25	0.04	Jul 2	0.00	Jul 13 1988
MAXIMUM PEAK FLOW			4.0	Apr 7	12	Jan 2 1997
MAXIMUM PEAK STAGE			4.47	Apr 7	4.75	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	271		266		452	
10 PERCENT EXCEEDS	0.85		0.60		1.5	
50 PERCENT EXCEEDS	0.27		0.26		0.36	
90 PERCENT EXCEEDS	0.13		0.06		0.04	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983 to current year.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
01...	1510	.12	--	--	--	--	149	21.0	7.5
NOV									
08...	1310	.25	--	--	--	--	133	7.0	3.7
DEC									
06...	1440	.25	599	10.9	99	7.6	130	3.5	1.5
JAN									
09...	1510	.45	--	--	--	--	131	1.5	2.0
FEB									
04...	1625	.40	--	--	--	--	130	-3.0	.0
MAR									
04...	1650	.36	--	--	--	7.6	130	4.0	1.5
26...	1455	.32	--	--	--	--	130	8.0	2.0
APR									
01...	1555	.86	--	--	--	--	116	16.5	2.5
04...	1445	1.6	--	--	--	--	111	13.0	2.5
10...	1550	1.8	--	--	--	--	103	8.5	3.5
22...	1320	3.0	--	--	--	--	111	10.0	4.0
23...	1440	E.66	--	--	--	--	108	9.5	4.5
MAY									
07...	1755	.49	--	--	--	--	113	10.5	6.5
17...	1540	.28	--	--	--	--	125	18.5	9.0
JUN									
03...	0955	.16	596	9.3	98	8.0	136	9.5	7.0
JUL									
01...	1640	.03	--	--	--	--	157	24.5	10.5
AUG									
14...	1625	.05	601	8.2	96	7.4	153	26.5	11.5
SEP									
13...	1340	.10	--	--	--	--	155	21.0	7.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
01...	.003	.19	.002	.013	.003	56	2	<.01
NOV								
08...	<.003	.16	.002	.006	.001	56	2	<.01
DEC								
06...	.004	.20	.004	.009	.002	65	2	<.01
JAN								
09...	.005	.28	.012	.016	.001	70	2	<.01
FEB								
04...	<.003	.24	.022	.010	.001	74	3	<.01
MAR								
04...	<.003	.26	.019	.019	.002	285	11	.01
26...	.003	.40	.021	.010	.002	85	4	<.01
APR								
01...	.004	.83	.025	.025	.004	497	13	.03
04...	.003	1.0	.020	.042	.005	--	22	.10
10...	.004	.43	.013	.021	.004	404	6	.03
22...	.003	.44	.011	.011	.001	116	3	.02
23...	.004	.32	.009	.013	.002	174	4	E.01
MAY								
07...	<.003	.62	.005	.014	.002	167	4	.01
17...	<.003	.31	.004	.014	.003	103	2	<.01
JUN								
03...	.003	.10	.007	.021	.002	96	5	<.01
JUL								
01...	<.003	.08	.013	.024	.003	50	1	<.01
AUG								
14...	.004	.08	.020	.012	.004	57	1	<.01
SEP								
13...	.003	.11	.013	.013	.004	70	<1	<.01

Remark Codes Used in This report:
< -- Less than
E -- Estimated

10336748 BURKE CREEK ABOVE MOUTH NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'35", long 119°56'56", in SW $^1/_4$ NW $^1/_4$ sec.22, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right upstream side of culvert wingwall, 500 feet above confluence with Lake Tahoe, 0.5 mi south of Elks Point Road, and 1.0 mi southwest of intersection of Elks Point Road and U. S. Highway 50.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 2001 to current year.

REMARKS.--In March 2001, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
20...	0920	.85	614	10.6	105	7.8	162	4.0	5.5
APR									
13...	1710	.82	--	--	--	--	162	19.0	16.5
MAY									
09...	1045	.80	--	--	--	--	157	--	12.5
JUN									
12...	1425	.52	610	7.3	102	7.8	155	23.5	20.5
AUG									
01...	1345	.32	610	7.2	101	7.1	158	25.5	20.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
20...	<.003	.28	.003	.010	.001	77	2	<.01
APR								
13...	<.003	.39	.005	.026	.004	313	7	.02
MAY								
09...	<.003	.31	.003	.015	.002	210	2	<.01
JUN								
12...	.004	.28	.006	.025	.006	866	7	.01
AUG								
01...	.005	.27	.003	.026	.004	270	6	.01

Remark Codes Used in This report:
< -- Less than

10336750 EDGEWOOD CREEK BELOW SOUTH BENJAMIN DRIVE NEAR DAGGETT PASS, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'00", long 119°53'37", in NW $^1/_4$ NW $^1/_4$ sec.30, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on left bank, 10 ft downstream of junction of two channels, 800 ft downstream of culvert on South Benjamin Drive and parking lot of Boulder section of Heavenly Valley Ski Area, 0.7 mi south of Daggett Pass, and 2.4 mi east of Stateline.

DRAINAGE AREA.--0.73 mi^2.

PERIOD OF RECORD.--August 1989, water years 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
20...	1120	.29	594	10.3	97	7.7	128	10.5	2.6
APR									
13...	1040	.57	--	--	--	--	83	12.5	4.5
MAY									
07...	1150	.34	--	--	--	--	91	13.5	7.5
JUN									
12...	1025	.13	592	8.8	95	7.6	109	18.5	7.5
JUL									
11...	1235	E.05	--	--	--	7.3	114	28.5	9.5
AUG									
02...	0950	.05	591	8.5	94	7.0	117	15.0	8.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
20...	.015	.23	.044	.021	.003	1040	10	.01
APR								
13...	.004	.33	.044	.044	.006	741	19	.03
MAY								
07...	<.003	.27	.030	.027	.007	1030	6	.01
JUN								
12...	.005	.13	.022	.016	.007	1880	2	<.01
JUL								
11...	.004	.07	.034	.023	.008	487	3	<.01
AUG								
02...	.009	.05	.031	.025	.006	545	6	<.01

Remark Codes Used in This report:
< -- Less than
E -- Estimated

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV--Continued

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'00", long 119°54'54", in NW $^1/_4$ NW $^1/_4$ sec.25, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 50 ft downstream from culvert at Palisades Drive, and 1.2 mi east of intersection of U.S. Highway 50 and State Highway 207 at Kingsbury.

DRAINAGE AREA.--3.13 mi^2.

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--In October 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUL								
11...	1400	E1.0	7.8	147	22.0	12.0	<.003	--
18...	1735	E1.5	7.2	194	13.5	9.0	.003	.23

Date	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUL								
11...	.19	.019	.026	--	.008	463	2	E.01
18...	.28	.026	.099	.033	.022	1890	27	E.11

Remark Codes Used in This report:
< -- Less than
E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

103367592 EAGLE ROCK CREEK NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'24", long 119°55'36", in NE $^1/_4$ SW $^1/_4$ sec.26, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 0.2 mi upstream from confluence of Edgewood Creek, and 0.8 mi east of Stateline.

DRAINAGE AREA.--0.63 mi^2 .

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1989 to September 2000, August 2002 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4.0 ft^3/s, January 2, 1997, gage height, 5.68 ft; minimum daily, 0.19 ft^3/s, September 16-25, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period August and September, 0.61 ft^3/s, August 8, gage height, 5.47 ft; minimum daily, 0.45 ft^3/s, August 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e0.50	0.52
2	---	---	---	---	---	---	---	---	---	---	e0.50	0.55
3	---	---	---	---	---	---	---	---	---	---	e0.52	0.51
4	---	---	---	---	---	---	---	---	---	---	e0.55	0.53
5	---	---	---	---	---	---	---	---	---	---	e0.55	0.53
6	---	---	---	---	---	---	---	---	---	---	0.59	0.53
7	---	---	---	---	---	---	---	---	---	---	0.61	0.59
8	---	---	---	---	---	---	---	---	---	---	0.59	0.61
9	---	---	---	---	---	---	---	---	---	---	0.56	0.61
10	---	---	---	---	---	---	---	---	---	---	0.53	0.58
11	---	---	---	---	---	---	---	---	---	---	0.53	0.56
12	---	---	---	---	---	---	---	---	---	---	0.53	0.58
13	---	---	---	---	---	---	---	---	---	---	0.53	0.58
14	---	---	---	---	---	---	---	---	---	---	0.51	0.61
15	---	---	---	---	---	---	---	---	---	---	0.47	0.61
16	---	---	---	---	---	---	---	---	---	---	0.47	0.61
17	---	---	---	---	---	---	---	---	---	---	0.47	0.61
18	---	---	---	---	---	---	---	---	---	---	0.47	0.61
19	---	---	---	---	---	---	---	---	---	---	0.45	0.61
20	---	---	---	---	---	---	---	---	---	---	0.47	0.61
21	---	---	---	---	---	---	---	---	---	---	0.47	0.61
22	---	---	---	---	---	---	---	---	---	---	0.47	0.61
23	---	---	---	---	---	---	---	---	---	---	0.52	0.61
24	---	---	---	---	---	---	---	---	---	---	0.53	0.61
25	---	---	---	---	---	---	---	---	---	---	0.53	0.61
26	---	---	---	---	---	---	---	---	---	---	0.53	0.61
27	---	---	---	---	---	---	---	---	---	---	0.51	0.61
28	---	---	---	---	---	---	---	---	---	---	0.47	0.61
29	---	---	---	---	---	---	---	---	---	---	0.47	0.58
30	---	---	---	---	---	---	---	---	---	---	0.47	0.53
31	---	---	---	---	---	---	---	---	---	---	0.47	---
TOTAL	---	---	---	---	---	---	---	---	---	---	15.84	17.54
MEAN	---	---	---	---	---	---	---	---	---	---	0.51	0.58
MAX	---	---	---	---	---	---	---	---	---	---	0.61	0.61
MIN	---	---	---	---	---	---	---	---	---	---	0.45	0.51
AC-FT	---	---	---	---	---	---	---	---	---	---	31	35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	0.84	0.84	0.82	0.85	0.85	0.89	0.93	0.86	0.74	0.69	0.71	0.76
MAX	1.51	1.45	1.47	1.72	1.50	1.49	1.52	1.53	1.28	1.25	1.38	1.50
(WY)	1998	2000	2000	1997	1997	1997	1999	1999	1999	1999	1999	1999
MIN	0.26	0.27	0.29	0.26	0.29	0.39	0.37	0.29	0.25	0.25	0.26	0.21
(WY)	1993	1993	1993	1992	1993	1991	1992	1992	1992	1993	1994	1991

SUMMARY STATISTICS WATER YEARS 1990 - 2002

ANNUAL MEAN	0.85		
HIGHEST ANNUAL MEAN	1.42		1999
LOWEST ANNUAL MEAN	0.31		1992
HIGHEST DAILY MEAN	3.6	Jan 2	1997
LOWEST DAILY MEAN	0.19	Sep 16	1991
ANNUAL SEVEN-DAY MINIMUM	0.19	Sep 16	1991
MAXIMUM PEAK FLOW	4.0	Jan 2	1997
MAXIMUM PEAK STAGE	5.68	Jan 2	1997
ANNUAL RUNOFF (AC-FT)	614		
10 PERCENT EXCEEDS	1.5		
50 PERCENT EXCEEDS	0.86		
90 PERCENT EXCEEDS	0.27		

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

103367592 EAGLE ROCK CREEK NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
JUL									
08...	1610	E.60	--	--	--	--	81	23.0	10.0
11...	1605	.60	--	--	--	--	75	25.0	12.0
17...	1915	E.60	--	--	--	--	66	13.0	10.0
18...	1515	.71	--	--	--	--	327	10.5	7.5
24...	1350	.54	--	--	--	--	91	25.5	10.5
AUG									
02...	1605	.49	604	8.2	96	7.0	77	21.0	12.0
14...	1325	.51	605	8.5	99	7.0	66	28.0	11.5
SEP									
13...	1205	.60	--	--	--	--	58	20.5	7.5

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUL											
08...	.018	--	.21	.032	.202	--	.165	212	--	3	<.01
11...	.006	--	.08	.024	.129	--	.110	181	--	1	<.01
17...	.003	--	.16	.019	.098	--	.076	215	--	4	E.01
18...	.252	5.2	25	.531	5.67	1.54	1.43	25800	72	1040	2.0
24...	.004	.18	.26	.023	.295	.231	.209	782	--	24	.03
AUG											
02...	.008	.27	.28	.024	.191	.145	.131	620	--	21	.03
14...	.003	.17	.25	.018	.135	.097	.087	598	--	17	.02
SEP											
13...	.003	.06	.11	.025	.092	.059	.054	470	--	15	.02

Remark Codes Used in This report:
< -- Less than
E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336760 EDGEWOOD CREEK AT STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'58", long 119°56'10", in NE $^1/_4$ NE $^1/_4$ sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, at upstream side of culvert on U.S. Highway 50, and 0.5 mi northeast of Stateline.

DRAINAGE AREA.--5.61 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to February 1980 (operated as partial record site), October 1992 to current year.

REVISED RECORDS.--WDR: NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,280 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge affected by slight regulation and diversion for irrigation. See schematic diagram of Pyramid and Winnemucca Lakes Basin section.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft^3/s, January 2, 1997, gage height, 6.14 ft; minimum daily, 0.14 ft^3/s, May 10, 2002, due to temporary diversion upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft^3/s, April 11; gage height, 4.47 ft; minimum daily, 0.14 ft^3/s, May 10, due to temporary diversion upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.0	3.0	3.4	3.5	4.6	4.8	2.3	2.6	1.7	1.8	1.8
2	1.7	2.0	3.1	3.4	3.5	4.3	5.2	4.4	2.5	1.9	1.8	1.7
3	1.7	2.0	3.1	3.6	3.5	4.3	8.5	5.7	2.5	1.9	1.8	1.7
4	1.7	1.9	3.1	3.7	3.5	4.1	7.1	4.1	2.5	1.8	1.9	1.4
5	1.7	2.1	3.1	3.8	3.4	4.1	6.7	e0.81	2.4	1.8	1.8	2.2
6	1.8	2.1	3.1	4.0	3.4	4.2	7.2	e3.5	2.3	1.9	1.8	2.0
7	1.8	2.1	3.1	4.0	3.5	4.4	6.1	5.8	2.2	1.8	1.8	1.8
8	2.7	2.2	3.1	4.1	3.4	4.4	5.8	4.2	2.1	1.8	1.8	1.8
9	3.1	2.1	3.1	4.1	3.5	4.5	4.2	2.4	2.1	1.8	1.8	1.7
10	3.0	2.1	3.1	4.0	3.4	4.5	2.7	e0.14	2.0	1.6	1.7	1.7
11	2.4	2.1	3.1	4.1	3.4	4.4	6.9	3.7	2.6	2.0	1.7	1.9
12	1.6	2.1	3.1	4.1	3.5	4.4	6.7	4.3	2.3	1.8	1.7	1.7
13	1.5	2.3	3.1	4.1	3.5	4.5	4.5	2.4	2.1	1.8	1.6	1.7
14	1.5	3.3	3.2	4.3	3.7	4.4	3.9	1.2	2.0	1.8	1.6	1.7
15	1.5	3.7	3.1	4.2	3.7	4.4	6.2	1.4	2.0	1.7	1.7	1.7
16	1.6	3.5	3.1	4.1	3.7	4.4	4.7	1.7	1.9	1.7	1.7	1.9
17	1.6	3.9	3.1	4.1	3.2	4.4	3.6	2.6	1.9	1.8	1.7	2.0
18	1.6	3.7	3.1	4.0	3.2	4.3	5.9	3.2	1.6	3.2	1.6	1.8
19	1.6	3.2	3.1	3.8	3.4	4.3	5.6	3.1	2.1	2.7	1.7	2.1
20	1.6	2.9	3.2	3.8	3.6	4.3	2.9	3.3	1.8	2.1	1.7	2.0
21	1.6	3.0	3.2	3.8	7.3	4.4	3.1	3.4	1.7	2.1	1.8	2.0
22	2.8	2.9	3.2	3.8	7.9	4.4	3.4	3.0	1.7	2.0	1.8	2.0
23	3.1	2.8	3.2	3.8	7.5	4.4	5.3	2.8	1.7	1.9	1.8	2.0
24	3.0	2.9	3.1	3.6	6.4	4.5	1.3	2.7	1.6	1.8	1.8	2.0
25	2.6	3.0	3.1	3.5	4.9	4.5	3.1	2.7	1.6	1.8	1.8	2.0
26	2.4	3.0	3.1	3.5	3.9	4.4	5.6	2.7	1.6	1.8	1.7	2.1
27	2.3	3.1	3.1	3.4	4.5	4.6	7.1	2.6	1.6	1.9	1.7	2.1
28	2.1	3.1	3.1	3.4	4.6	4.4	3.5	2.6	1.5	1.8	1.8	2.1
29	1.9	3.1	3.2	3.5	---	4.4	e1.6	2.5	1.5	1.8	1.8	2.2
30	2.0	3.1	3.2	3.5	---	4.5	6.0	2.5	1.5	1.8	1.8	2.1
31	2.0	---	3.4	3.6	---	4.7	---	2.6	---	1.8	1.8	---
TOTAL	63.2	81.3	97.0	118.1	116.5	136.4	149.2	90.35	59.5	59.1	54.3	56.9
MEAN	2.039	2.710	3.129	3.810	4.161	4.400	4.973	2.915	1.983	1.906	1.752	1.897
MAX	3.1	3.9	3.4	4.3	7.9	4.7	8.5	5.8	2.6	3.2	1.9	2.2
MIN	1.5	1.9	3.0	3.4	3.2	4.1	1.3	0.14	1.5	1.6	1.6	1.4
AC-FT	125	161	192	234	231	271	296	179	118	117	108	113

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	3.398	3.813	4.261	5.349	5.005	6.635	7.995	7.960	4.915	3.098	2.895	3.229
MAX	5.87	5.96	6.50	14.4	7.22	9.83	13.5	15.8	10.0	5.67	4.39	5.44
(WY)	1999	1999	1997	1997	2000	1998	1999	1999	1998	1998	1997	1997
MIN	1.49	1.69	1.48	2.10	2.15	2.57	2.92	2.34	1.57	1.38	1.62	1.47
(WY)	1993	1993	1993	1993	1993	1994	1994	1994	1994	1994	1994	1993

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	1190.23		1081.85			
ANNUAL MEAN	3.261		2.964		4.877	
HIGHEST ANNUAL MEAN					7.71	1999
LOWEST ANNUAL MEAN					2.17	1994
HIGHEST DAILY MEAN	8.2	Mar 25	8.5	Apr 3	102	Jan 2 1997
LOWEST DAILY MEAN	0.66	Jun 30	0.14	May 10	0.14	May 10 2002
ANNUAL SEVEN-DAY MINIMUM	1.4	Jun 25	1.6	Oct 12	1.3	Sep 23 1993
MAXIMUM PEAK FLOW			15	Apr 11	136	Jan 2 1997
MAXIMUM PEAK STAGE			4.47	Apr 11	6.14	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	2360		2150		3530	
10 PERCENT EXCEEDS	5.1		4.5		8.7	
50 PERCENT EXCEEDS	3.1		2.8		4.2	
90 PERCENT EXCEEDS	1.6		1.7		1.8	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992 to current year.

REMARKS.--In August 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
OCT									
01...	1355	1.6	--	--	--	--	93	17.0	9.0
NOV									
08...	1140	2.1	--	--	--	--	87	9.5	5.6
DEC									
06...	1325	3.1	607	10.5	98	7.2	100	5.0	3.0
JAN									
09...	1350	4.0	--	--	--	--	163	2.5	3.5
FEB									
05...	1605	3.4	--	--	--	--	126	3.0	2.0
MAR									
04...	1540	4.1	--	--	--	7.5	140	9.0	3.0
26...	1325	4.4	--	--	--	--	140	9.0	4.5
APR									
01...	1440	4.8	--	--	--	--	131	17.0	5.0
03...	1745	9.9	--	--	--	--	124	12.0	5.0
13...	1535	4.8	--	--	--	--	113	16.0	6.5
22...	1150	3.4	--	--	--	--	119	11.0	5.0
23...	1330	E5.3	--	--	--	--	110	15.5	6.0
26...	1615	5.6	--	--	--	--	103	6.0	7.0
MAY									
07...	1520	5.6	--	--	--	--	114	13.0	9.5
17...	1435	3.0	--	--	--	--	107	20.5	10.5
JUN									
03...	0805	2.6	603	7.8	92	7.8	122	10.5	12.0
JUL									
08...	1420	1.9	--	--	--	--	114	21.5	16.0
18...	1445	4.6	--	--	--	7.0	102	11.0	13.5
AUG									
14...	1035	1.7	609	7.5	91	6.9	102	21.0	14.0
SEP									
13...	1055	1.8	--	--	--	--	93	15.5	10.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT									
01...	.005	.16	.005	.024	--	.003	391	1	<.01
NOV									
08...	.004	.17	.005	.020	--	.009	390	3	.02
DEC									
06...	.005	.15	.014	.021	--	.011	461	5	.04
JAN									
09...	.015	.21	.014	.026	--	.011	398	2	.02
FEB									
05...	.014	.14	.022	.027	--	.009	371	2	.02
MAR									
04...	.009	.15	.021	.021	--	.010	373	2	.02
26...	.004	.20	.010	.030	--	.008	546	5	.06
APR									
01...	<.003	.25	.015	.182	--	.010	713	6	.08
03...	.003	.45	.011	.035	--	.008	739	9	.24
13...	<.003	.36	.014	.036	--	.007	572	4	.05
22...	.005	.31	.018	.023	--	.009	411	5	.05
23...	.004	.07	.017	.029	--	.009	639	14	E.20
26...	.004	.36	.016	.025	--	.008	466	8	.12
MAY									
07...	.003	.37	.004	.029	--	.009	402	3	.05
17...	<.003	.24	.004	.041	--	.021	213	3	.02
JUN									
03...	.003	.31	.003	.032	--	.012	361	5	.04
JUL									
08...	.009	.15	.007	.057	--	.027	586	4	.02
18...	.009	.30	.005	.082	.054	.037	1040	15	.19
AUG									
14...	.010	.29	.011	.054	--	.032	649	1	<.01
SEP									
13...	.005	.08	.008	.037	--	.019	484	2	.01

Remark Codes Used in This report:
  < -- Less than
  E -- Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336765 EDGEWOOD CREEK AT LAKE TAHOE NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'05", long 119°56'54", in NE $^{1}/_{4}$ NW $^{1}/_{4}$ sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 800 ft above mouth, on Edgewood Golf Course at Stateline.

DRAINAGE AREA.--6.57 mi^2, revised.

PERIOD OF RECORD.--Water years 1984-85, 1989 to current year.

REMARKS.--In December 1988, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR									
20...	1235	4.0	612	12.5	126	8.7	157	7.5	6.2
APR									
13...	1245	4.6	--	--	--	--	120	11.0	11.5
MAY									
07...	1410	5.7	--	--	--	--	124	12.5	14.0
JUN									
12...	1245	1.2	610	10.4	142	9.5	140	16.0	19.5
AUG									
02...	1325	.38	609	9.5	145	9.0	120	23.0	25.0

Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR								
20...	.005	.37	.007	.021	.007	626	5	.05
APR								
13...	.004	.34	.007	.030	.005	605	3	.04
MAY								
07...	<.003	.41	.006	.028	.006	596	3	.05
JUN								
12...	.007	.36	.010	.038	.015	247	7	.02
AUG								
02...	.009	.19	.005	.030	.006	273	5	.01

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°51'48", long 119°57'26", in NE $^1/_4$ NW $^1/_4$ sec.26, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, 50 ft downstream from U.S. Forest Service Road 12N01, about 2.2 mi upstream from confluence of Saxon Creek, and 2.6 mi northeast of Meyers.

DRAINAGE AREA.--7.41 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,850 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 166 ft^3/s, June 27, 1995, gage height, 6.19 ft; minimum daily, 1.9 ft^3/s, December 21, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	1015	*38	4.99				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.3	3.3	3.8	e3.4	4.0	6.6	8.9	28	7.6	4.6	3.8
2	3.2	3.2	e3.4	4.1	3.3	e3.5	7.3	9.5	26	7.3	4.5	3.7
3	3.3	3.1	e3.4	4.0	3.3	e3.6	8.3	11	24	7.1	4.5	3.7
4	3.3	3.1	e3.5	3.9	3.3	3.7	9.1	12	23	6.9	4.5	3.8
5	3.3	3.1	e3.6	3.9	3.3	3.7	9.4	13	23	6.8	4.4	3.8
6	3.3	3.1	3.7	5.8	3.3	3.9	9.4	14	23	6.6	4.4	3.9
7	3.3	3.1	3.7	4.8	3.4	4.0	9.2	16	21	6.5	4.2	3.9
8	3.4	3.1	3.7	4.3	3.4	e3.8	9.3	16	20	6.3	4.1	3.9
9	3.4	3.1	3.7	4.0	3.3	3.8	9.3	16	18	6.1	4.0	3.8
10	3.4	3.1	3.6	4.0	3.3	3.6	9.8	16	17	5.9	4.0	3.8
11	3.4	3.5	3.6	3.9	3.4	3.7	11	15	16	5.8	4.0	3.7
12	3.4	3.4	3.6	3.9	3.4	3.9	12	16	15	6.1	4.0	3.7
13	3.4	3.4	3.6	3.8	3.4	3.7	12	17	16	6.2	3.9	3.7
14	3.4	3.4	3.7	3.8	3.4	4.1	16	19	14	5.9	3.9	3.6
15	3.4	3.4	3.6	e3.8	3.4	e3.6	15	20	13	5.6	3.9	3.4
16	3.4	3.3	3.6	e3.8	3.4	e3.6	12	21	13	5.5	3.8	3.5
17	3.4	3.3	3.6	e3.8	3.4	e3.6	10	23	13	5.4	3.8	3.5
18	3.5	3.1	3.6	e3.8	3.4	3.5	9.1	24	13	6.5	3.8	3.5
19	3.5	3.1	3.6	e3.8	3.6	3.6	8.5	23	12	6.2	3.8	3.5
20	3.5	3.1	3.6	3.8	4.2	3.7	8.3	21	12	5.7	3.8	3.5
21	3.6	5.4	3.6	3.6	3.9	3.9	8.6	18	12	5.5	3.8	3.5
22	3.6	6.3	3.6	3.5	3.9	4.0	9.3	17	11	5.3	3.9	3.5
23	3.6	3.6	3.6	3.6	3.9	4.0	10	16	11	5.2	3.9	3.5
24	3.6	5.7	3.6	3.4	3.8	3.8	11	17	11	5.0	3.8	3.4
25	3.6	5.2	3.6	3.4	3.7	3.7	12	19	11	5.0	3.8	3.4
26	3.6	7.4	3.6	3.5	3.9	3.7	11	19	11	4.9	3.8	3.4
27	3.6	6.2	3.6	3.4	3.9	4.0	11	20	9.0	4.9	3.8	3.4
28	3.6	3.5	3.7	3.4	3.9	4.3	10	21	8.5	4.8	3.8	3.5
29	3.6	3.4	3.8	e3.4	---	5.0	9.7	23	8.1	4.7	3.8	3.5
30	4.4	3.3	3.9	e3.4	---	5.5	9.3	24	7.8	4.7	3.9	3.6
31	3.6	---	4.3	e3.4	---	6.0	---	26	---	4.6	3.8	---
TOTAL	107.8	114.3	112.6	118.8	99.2	122.5	303.5	551.4	460.4	180.6	124.0	108.4
MEAN	3.477	3.810	3.632	3.832	3.543	3.952	10.12	17.79	15.35	5.826	4.000	3.613
MAX	4.4	7.4	4.3	5.8	4.2	6.0	16	26	28	7.6	4.6	3.9
MIN	3.2	3.1	3.3	3.4	3.3	3.5	6.6	8.9	7.8	4.6	3.8	3.4
AC-FT	214	227	223	236	197	243	602	1090	913	358	246	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	5.015	5.284	5.655	6.572	5.305	6.524	10.39	25.01	29.75	15.37	7.239	5.517
MAX	7.87	8.20	14.2	24.9	11.4	14.2	22.3	48.1	84.9	62.1	20.0	10.7
(WY)	1999	1997	1997	1997	1997	1997	1997	1997	1995	1995	1995	1998
MIN	2.91	2.93	2.63	2.59	2.65	3.25	5.18	8.81	4.10	3.41	2.93	3.02
(WY)	1993	1993	1993	1991	1991	1991	1991	1992	1992	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	1786.4		2403.5			
ANNUAL MEAN	4.894		6.585		10.92	
HIGHEST ANNUAL MEAN					19.8	1995
LOWEST ANNUAL MEAN					4.48	1992
HIGHEST DAILY MEAN	18	May 12	28	Jun 1	130	Jun 28 1995
LOWEST DAILY MEAN	2.8	Aug 18	3.1	Nov 3	1.9	Dec 21 1990
ANNUAL SEVEN-DAY MINIMUM	2.8	Aug 25	3.1	Nov 3	2.4	Dec 17 1990
MAXIMUM PEAK FLOW			38	Jun 1	166	Jun 27 1995
MAXIMUM PEAK STAGE			5.36	Dec 3	6.19	Jun 27 1995
ANNUAL RUNOFF (AC-FT)	3540		4770		7910	
10 PERCENT EXCEEDS	7.9		16		23	
50 PERCENT EXCEEDS	3.9		3.9		5.9	
90 PERCENT EXCEEDS	3.0		3.4		3.2	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature monitor records represent water temperature at probe within 0.5°C. Water temperature records for September 1997 were not published but are available from the U.S. Geological Survey, in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 14.0°C, July 10, 2002; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.0°C, July 10; minimum, freezing point, many days November, January, and February.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT								
02...	1330	3.3	60	23.0	7.7	<.003	.14	.002
SEP								
11...	1620	3.6	54	17.5	7.5	.003	.16	.006

Date	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT						
02...	.016	--	.009	74	1	.01
SEP						
11...	.015	.014	.010	68	2	.02

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	6.0	7.0	4.0	2.0	3.0	1.0	0.5	1.0	3.0	2.0	2.5
2	8.5	6.0	7.5	4.0	2.5	3.0	1.0	0.5	0.5	2.5	2.5	2.5
3	8.5	6.0	7.5	4.0	2.0	3.0	0.5	0.5	0.5	2.5	1.0	2.0
4	8.0	6.0	7.0	4.0	2.5	3.5	0.5	0.5	0.5	1.5	0.5	1.0
5	7.5	5.5	6.5	4.0	2.5	3.5	1.0	0.5	0.5	2.5	1.5	2.0
6	7.5	5.5	6.5	4.0	2.5	3.5	1.5	1.0	1.5	2.5	2.5	2.5
7	7.5	5.0	6.5	3.0	2.0	2.5	1.5	1.0	1.5	2.5	2.0	2.5
8	7.0	5.0	6.0	3.0	1.5	2.5	2.0	1.0	1.5	3.0	2.0	2.5
9	6.0	3.5	4.5	3.0	1.5	2.5	2.0	1.5	1.5	2.0	1.5	2.0
10	5.5	2.5	4.0	3.5	1.5	2.5	1.5	1.0	1.5	2.0	1.0	1.5
11	6.0	4.5	5.5	4.5	3.5	4.0	1.5	1.0	1.5	2.0	1.0	1.5
12	6.0	3.5	5.0	4.0	2.5	3.0	1.5	1.0	1.5	2.0	1.5	2.0
13	6.0	3.0	4.5	3.0	2.5	2.5	2.0	1.5	2.0	1.5	0.5	1.0
14	6.5	4.0	5.5	3.5	2.5	3.0	1.5	1.0	1.0	1.0	0.5	1.0
15	6.5	4.0	5.5	4.0	2.5	3.0	1.0	0.5	0.5	0.5	0.5	0.5
16	6.5	4.5	5.5	4.0	3.0	3.5	2.0	1.0	1.5	0.5	0.5	0.5
17	6.5	4.0	5.5	3.5	2.5	3.0	2.0	1.5	1.5	0.5	0.5	0.5
18	6.0	4.0	5.0	2.5	1.5	2.0	1.5	0.5	1.0	0.5	0.5	0.5
19	6.0	3.5	5.0	3.5	1.5	2.5	2.0	1.5	1.5	0.5	0.5	0.5
20	6.0	4.0	5.0	4.0	3.0	3.5	2.0	1.5	1.5	1.0	0.5	0.5
21	5.5	4.0	5.0	4.0	3.0	3.5	1.5	1.0	1.5	1.0	1.0	1.0
22	5.0	3.0	4.0	3.5	1.0	2.0	1.5	1.5	1.5	1.0	0.5	0.5
23	5.5	4.0	4.5	1.5	0.5	1.0	2.0	1.0	1.5	0.5	0.5	0.5
24	4.5	2.5	3.5	2.0	0.0	1.0	1.5	0.5	1.0	1.5	0.5	0.5
25	5.0	3.0	4.0	0.0	0.0	0.0	2.5	1.0	1.5	1.5	1.5	1.5
26	5.0	3.5	4.5	0.0	0.0	0.0	2.5	2.0	2.5	1.5	1.5	1.5
27	5.5	4.0	5.0	0.0	0.0	0.0	2.5	2.5	2.5	1.5	1.0	1.5
28	5.5	4.0	5.0	1.0	0.0	0.5	2.5	2.5	2.5	1.0	0.5	0.5
29	6.0	4.0	5.0	1.0	0.5	0.5	3.0	2.5	2.5	0.5	0.5	0.5
30	6.0	4.0	5.5	1.0	0.5	0.5	3.0	2.5	3.0	0.5	0.0	0.0
31	4.0	3.5	4.0	---	---	---	2.5	2.5	2.5	0.5	0.0	0.0
MONTH	8.5	2.5	5.3	4.5	0.0	2.3	3.0	0.5	1.5	3.0	0.0	1.2

10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.0	0.0	1.5	0.5	1.0	4.0	1.5	3.0	4.5	0.5	2.5
2	1.0	0.5	0.5	1.5	0.5	0.5	4.5	2.0	3.0	6.5	2.0	4.0
3	1.0	0.5	0.5	1.5	0.5	1.0	4.5	2.0	3.0	7.0	2.5	4.5
4	1.0	0.5	0.5	2.0	0.5	1.0	4.5	2.0	3.0	6.5	2.5	4.5
5	1.5	0.5	1.0	2.5	1.5	2.0	4.5	2.0	3.0	7.5	2.0	4.5
6	1.5	0.5	1.0	2.5	0.5	2.0	4.5	1.5	3.0	7.5	2.0	4.5
7	1.5	1.0	1.5	1.0	0.5	0.5	4.5	2.0	3.0	7.5	2.5	4.5
8	1.5	1.0	1.0	0.5	0.5	0.5	4.5	2.0	3.0	7.0	1.5	4.0
9	1.5	0.5	1.0	1.5	0.5	1.0	4.0	2.5	3.0	7.0	2.0	4.0
10	2.0	1.0	1.5	2.0	1.0	1.5	5.0	2.0	3.5	5.5	2.0	3.5
11	2.0	1.5	1.5	2.5	1.0	1.5	5.5	2.5	3.5	7.0	2.0	4.0
12	2.0	1.5	2.0	3.0	2.0	2.5	5.5	2.0	3.5	7.0	2.0	4.5
13	2.0	1.5	2.0	2.0	0.5	1.0	6.0	2.0	3.5	7.0	2.5	4.5
14	2.5	2.0	2.5	0.5	0.5	0.5	6.0	2.5	3.5	8.0	2.5	5.0
15	2.5	2.0	2.0	0.5	0.5	0.5	3.0	1.0	2.0	7.5	2.5	4.5
16	2.5	2.0	2.0	0.5	0.5	0.5	3.5	0.5	1.5	8.0	2.5	5.0
17	2.0	1.5	1.5	1.0	0.5	0.5	1.5	0.5	1.0	9.0	3.0	5.5
18	2.0	1.0	1.5	1.0	0.5	0.5	1.5	0.5	1.0	8.5	3.5	5.5
19	2.5	2.0	2.0	2.0	0.5	1.0	3.0	1.0	1.5	6.5	3.5	5.0
20	2.5	2.0	2.5	2.0	1.0	1.5	3.5	0.5	2.0	4.5	2.0	3.0
21	2.5	2.0	2.5	2.5	2.0	2.5	5.0	1.0	3.0	5.0	1.5	3.0
22	3.0	2.0	2.5	3.0	2.0	2.5	6.0	1.5	3.5	6.5	0.5	3.5
23	2.5	2.0	2.5	2.5	1.0	1.5	6.5	2.0	3.5	7.5	2.0	4.5
24	2.0	1.0	1.5	2.5	1.5	2.0	6.5	2.5	4.0	8.5	3.0	6.0
25	2.0	1.0	1.5	2.5	0.5	1.5	6.0	2.5	4.0	8.5	4.0	6.5
26	2.5	1.0	2.0	3.0	1.5	2.0	4.0	3.0	3.5	9.0	4.0	6.5
27	2.5	1.5	2.0	3.0	1.0	2.0	5.0	2.0	3.5	8.5	4.5	6.5
28	2.5	0.5	1.5	3.5	2.0	2.5	4.5	1.5	2.5	10.5	4.5	7.5
29	---	---	---	3.5	2.0	3.0	3.0	0.5	2.0	11.5	6.0	8.5
30	---	---	---	4.0	1.5	2.5	4.5	1.5	2.5	11.5	6.0	9.0
31	---	---	---	4.0	1.5	2.5	---	---	---	11.5	6.0	9.0
MONTH	3.0	0.0	1.6	4.0	0.5	1.5	6.5	0.5	2.9	11.5	0.5	5.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	7.0	8.5	13.5	7.5	10.5	12.5	8.5	10.5	10.0	7.0	8.5
2	9.5	4.0	7.0	13.0	8.5	11.0	13.0	9.0	11.0	10.0	7.0	9.0
3	10.0	5.0	8.0	12.5	8.0	10.5	12.0	7.5	10.0	10.0	7.5	8.5
4	11.0	6.0	8.5	12.5	7.5	10.0	11.5	8.0	9.5	9.5	8.0	9.0
5	12.0	6.5	9.5	12.5	7.5	10.0	11.0	7.5	9.0	9.5	8.0	8.5
6	12.0	6.0	9.0	12.0	7.0	10.0	10.5	7.0	8.5	9.0	7.0	8.0
7	11.5	6.5	9.0	12.5	8.5	10.5	9.5	5.5	8.0	7.0	4.5	6.0
8	10.5	6.5	8.0	12.0	7.5	10.0	10.0	6.0	8.0	7.0	4.0	5.5
9	8.0	4.0	6.0	13.0	8.0	10.5	11.0	6.5	9.0	7.5	4.0	6.0
10	9.5	4.0	6.5	14.0	9.0	11.5	11.5	7.5	9.5	8.0	4.5	6.5
11	10.5	5.0	8.0	13.0	9.5	11.5	11.0	7.5	9.5	8.0	5.0	6.5
12	11.0	6.0	8.5	12.0	10.5	11.5	12.0	8.0	10.0	8.5	5.5	7.0
13	11.5	7.0	9.5	13.0	9.5	11.0	12.0	8.5	10.5	8.5	5.5	7.0
14	12.0	6.0	9.0	13.5	10.0	11.5	13.0	9.0	10.5	9.0	6.0	7.5
15	11.5	5.5	8.5	13.0	9.5	11.5	12.5	8.5	10.5	9.0	7.0	8.0
16	11.5	5.5	8.5	13.0	9.0	11.0	12.0	8.0	10.5	8.0	5.0	6.5
17	12.0	7.0	9.5	12.0	9.5	10.5	11.0	7.5	9.5	7.5	5.0	6.5
18	12.5	8.0	10.0	10.5	8.5	9.0	11.0	7.0	9.0	7.5	5.0	6.5
19	12.0	7.5	9.5	11.5	7.0	9.5	10.0	6.5	8.5	7.5	4.5	6.0
20	11.5	7.5	9.5	12.5	8.5	10.5	9.5	6.0	8.0	8.0	5.0	6.5
21	11.5	7.0	9.5	12.0	9.0	10.5	8.5	4.5	7.0	8.5	5.5	7.0
22	11.5	6.5	9.0	12.0	8.0	10.0	9.0	5.5	7.5	8.5	5.5	7.0
23	12.5	7.5	10.0	11.0	7.0	9.5	9.0	5.0	7.0	8.5	5.5	7.0
24	12.0	6.5	9.5	12.5	8.5	10.0	9.0	5.0	7.0	8.0	5.5	7.0
25	13.0	8.0	10.5	11.5	7.0	9.5	8.5	4.5	7.0	8.0	5.5	7.0
26	13.0	8.5	11.0	11.0	6.0	9.0	9.0	5.0	7.0	7.5	5.0	6.5
27	12.5	7.5	10.0	12.0	7.5	10.0	9.5	6.5	8.0	7.5	6.0	6.5
28	12.5	7.5	10.0	12.0	8.5	10.5	9.5	6.5	8.5	7.0	5.0	6.0
29	12.5	7.5	10.0	12.5	8.5	10.5	9.5	6.5	8.0	6.5	4.0	5.0
30	13.0	7.0	10.0	13.0	9.0	11.0	9.5	7.0	8.5	5.5	3.0	4.5
31	---	---	---	12.5	8.5	10.5	10.0	7.0	8.5	---	---	---
MONTH	13.0	4.0	9.0	14.0	6.0	10.4	13.0	4.5	8.8	10.0	3.0	6.9
YEAR	14.0	0.0	4.7									

Remark Codes Used in This report:
  < -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°54'13", long 119°58'04", in SE $^1/_4$ NE $^1/_4$ sec.10, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 200 ft upstream of Pioneer Trail Road, 0.6 mi upstream of confluence of Cold Creek, and 2.8 mi south of South Lake Tahoe.

DRAINAGE AREA.--23.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,270 ft above sea level, from topographic map. Prior to May 1, 1992, at datum 0.12 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 525 ft^3/s, January 2, 1997, gage height, 7.59 ft; minimum daily, 2.0 ft^3/s, December 22, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 1	0115	49	2.38				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.0	8.4	e8.4	e7.7	e11	18	23	46	15	7.8	5.6
2	4.6	5.7	e8.4	11	e7.7	e11	20	23	40	15	7.7	5.5
3	4.5	5.6	e8.4	11	e7.7	e11	22	24	36	14	7.5	5.5
4	4.3	5.5	e8.4	e10	e7.7	e11	25	25	36	14	7.4	5.5
5	4.3	5.5	e8.4	11	e7.7	9.7	26	27	37	14	7.3	5.6
6	4.4	5.5	e8.4	14	e7.7	e10	25	28	37	14	7.3	5.7
7	4.4	5.5	e8.4	13	e7.7	e10	24	30	36	13	7.1	5.8
8	4.5	5.5	e8.4	11	e7.7	e10	24	29	34	13	7.0	5.8
9	4.5	5.9	e8.4	9.8	e7.7	e10	25	28	32	13	6.9	5.8
10	4.6	5.5	e8.4	9.7	e7.7	10	25	28	31	12	6.8	5.7
11	4.6	6.1	e8.4	e9.5	e7.7	e11	26	26	29	12	6.7	5.6
12	4.6	6.6	e8.4	e9.3	e7.7	10	28	27	28	12	6.6	5.5
13	4.6	6.6	e8.4	e9.3	e7.7	11	28	29	28	13	6.4	5.5
14	4.6	6.3	e8.4	e9.3	e7.7	9.7	33	30	27	12	6.4	5.5
15	4.5	6.3	e8.4	9.3	e7.7	e10	34	33	26	12	6.3	5.3
16	4.5	6.2	e8.4	9.3	e7.7	e11	28	33	25	11	6.1	5.4
17	4.5	5.9	e8.4	e9.3	7.6	11	27	35	24	12	6.0	5.5
18	4.5	5.8	e8.4	9.3	7.7	11	25	38	24	14	6.0	5.6
19	4.6	5.7	e8.4	e8.8	8.1	e11	23	39	23	14	6.0	5.6
20	4.6	5.7	e8.4	e8.4	e10	e11	23	35	22	12	5.9	5.5
21	4.5	7.9	e8.4	e8.0	e10	11	23	32	22	11	6.0	5.4
22	4.6	18	e8.4	e7.7	e10	11	24	28	21	10	6.1	5.3
23	4.7	9.0	e8.4	e7.7	e10	e11	24	27	20	9.8	6.1	5.3
24	4.6	13	e8.4	e7.7	e10	10	25	28	19	9.3	6.1	5.2
25	4.7	10	e8.4	e7.7	e10	11	26	30	18	8.9	6.0	5.2
26	4.7	14	e8.4	e7.7	e10	10	27	30	18	8.7	5.9	5.2
27	4.7	8.9	e8.4	e7.7	10	11	26	32	17	8.6	6.0	5.3
28	4.7	8.5	e8.4	e7.7	11	13	24	32	17	8.4	5.9	5.4
29	4.7	e8.5	e8.4	e7.7	---	14	25	35	16	8.1	5.8	5.5
30	5.8	e8.4	e8.4	e7.7	---	16	24	40	16	8.0	5.7	5.6
31	7.3	---	e8.4	e7.7	---	17	---	44	---	7.9	5.7	---
TOTAL	145.3	223.6	260.4	285.7	237.6	345.4	757	948	805	359.7	200.5	164.9
MEAN	4.687	7.453	8.400	9.216	8.486	11.14	25.23	30.58	26.83	11.60	6.468	5.497
MAX	7.3	18	8.4	14	11	17	34	44	46	15	7.8	5.8
MIN	4.3	5.5	8.4	7.7	7.6	9.7	18	23	16	7.9	5.7	5.2
AC-FT	288	444	517	567	471	685	1500	1880	1600	713	398	327

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2002, BY WATER YEAR (WY)

MEAN	9.126	10.06	11.97	17.72	15.05	20.78	29.95	55.13	59.03	32.08	12.85	9.238
MAX	15.4	18.7	34.2	87.8	38.2	42.0	54.9	107	158	142	35.8	19.0
(WY)	1999	1997	1997	1997	1997	1997	1996	1996	1995	1995	1995	1995
MIN	4.49	5.03	4.05	4.70	5.49	7.85	12.2	14.2	7.66	5.64	4.11	4.08
(WY)	1991	1991	1991	1991	1993	1992	1991	1992	1992	2001	2001	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1990 - 2002	
ANNUAL TOTAL	3356.0		4733.1			
ANNUAL MEAN	9.195		12.97		24.18	
HIGHEST ANNUAL MEAN					46.9	1995
LOWEST ANNUAL MEAN					7.71	1992
HIGHEST DAILY MEAN	28	May 12	46	Jun 1	457	Jan 2 1997
LOWEST DAILY MEAN	3.8	Aug 19	4.3	Oct 4	2.0	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	3.9	Aug 26	4.4	Oct 3	2.8	Dec 21 1990
MAXIMUM PEAK FLOW			49	Jun 1	525	Jan 2 1997
MAXIMUM PEAK STAGE			2.38	Jun 1	7.59	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	6660		9390		17510	
10 PERCENT EXCEEDS	16		28		57	
50 PERCENT EXCEEDS	8.4		8.5		13	
90 PERCENT EXCEEDS	4.1		5.4		5.2	

e Estimated

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in water temperature record due to instrument malfunction and loss of communication between stream and sensor. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0°C, July 2, 2001; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, presumably not measured during instrument malfunction; minimum, freezing point, many days November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT									
02...	1520	4.7	--	--	63	23.0	14.2	<.003	--
NOV									
07...	1040	5.5	--	--	61	9.5	2.6	<.003	--
DEC									
11...	0945	16	597	7.4	59	-1.5	.3	.004	.13
SEP									
11...	1510	5.8	--	--	57	23.0	11.9	<.003	--

Date	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
02...	.22	.002	.020	--	.009	161	1	.01
NOV								
07...	.17	.003	.012	--	.006	167	3	.04
DEC								
11...	.20	.003	.014	.015	.006	189	2	.09
SEP								
11...	<.04	.003	.015	.016	.009	147	1	.02

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.5	6.0	9.5	6.5	1.5	4.0	0.0	0.0	0.0	0.5	0.0	0.0
2	14.5	6.5	10.0	6.0	1.5	3.5	0.0	0.0	0.0	1.5	0.5	1.0
3	14.5	6.0	9.5	6.0	1.5	3.5	0.0	0.0	0.0	2.0	0.0	1.0
4	14.0	6.0	9.5	6.5	1.5	3.5	0.0	0.0	0.0	0.5	0.0	0.0
5	13.5	6.0	9.0	6.5	1.5	3.5	0.0	0.0	0.0	1.0	0.0	0.5
6	12.5	6.0	9.0	6.5	1.5	3.5	0.0	0.0	0.0	2.0	1.0	1.0
7	12.5	5.0	8.5	5.5	1.0	3.0	0.5	0.0	0.0	2.5	0.5	1.5
8	11.0	6.5	8.0	5.0	0.0	2.0	0.5	0.0	0.0	3.0	1.0	2.0
9	10.5	3.5	6.5	4.0	0.0	1.5	0.0	0.0	0.0	2.0	0.0	1.0
10	9.5	2.0	5.5	4.5	0.0	2.0	0.0	0.0	0.0	1.5	0.0	0.5
11	9.5	4.5	6.5	5.5	3.0	4.0	0.5	0.0	0.0	0.5	0.0	0.5
12	10.5	3.5	6.5	5.0	2.0	3.0	0.5	0.0	0.0	1.5	0.0	0.5
13	10.0	2.5	6.0	4.5	2.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0
14	9.0	3.0	6.0	5.5	2.0	3.5	0.0	0.0	0.0	0.5	0.0	0.0
15	9.5	3.5	6.0	4.5	1.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0
16	9.5	3.5	6.5	5.5	2.0	3.5	0.5	0.0	0.0	0.5	0.0	0.0
17	9.0	3.5	6.0	5.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.0	3.5	6.5	4.5	1.0	2.5	0.5	0.0	0.0	0.5	0.0	0.0
19	8.5	2.5	5.5	4.5	0.5	2.0	0.5	0.0	0.0	0.5	0.0	0.0
20	9.5	3.5	6.5	5.0	1.0	3.0	0.5	0.0	0.0	0.5	0.0	0.0
21	9.5	3.0	6.0	4.5	3.0	3.5	0.5	0.0	0.0	0.5	0.0	0.0
22	9.0	3.0	5.5	4.0	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
23	9.5	4.0	6.0	3.0	0.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
24	8.0	2.0	5.0	3.0	0.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0
25	8.0	2.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	8.5	2.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	8.5	3.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
28	8.5	3.0	5.5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
29	8.0	3.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	7.5	5.5	6.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
31	7.5	4.0	5.5	---	---	---	0.5	0.0	0.0	0.0	0.0	0.0
MONTH	14.5	2.0	6.7	6.5	0.0	2.4	0.5	0.0	0.0	3.0	0.0	0.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	1.5	0.0	0.5	7.5	1.0	3.5	---	---	---
2	0.0	0.0	0.0	1.5	0.0	0.0	8.0	1.5	4.0	---	---	---
3	0.0	0.0	0.0	1.5	0.0	0.0	8.0	1.5	4.5	---	---	---
4	0.0	0.0	0.0	2.0	0.0	0.5	7.0	2.0	4.0	---	---	---
5	0.0	0.0	0.0	4.5	0.0	2.0	7.0	2.0	4.0	---	---	---
6	0.0	0.0	0.0	2.5	0.0	1.0	7.0	2.0	4.0	---	---	---
7	0.0	0.0	0.0	0.0	0.0	0.0	7.5	2.0	4.5	---	---	---
8	0.0	0.0	0.0	0.5	0.0	0.0	7.0	2.0	4.5	---	---	---
9	0.0	0.0	0.0	0.5	0.0	0.0	5.5	2.5	4.0	---	---	---
10	0.0	0.0	0.0	0.5	0.0	0.0	8.0	3.0	5.0	---	---	---
11	0.0	0.0	0.0	2.5	0.0	0.5	8.5	3.5	5.5	---	---	---
12	0.5	0.0	0.0	4.0	0.5	2.0	8.5	3.0	5.5	---	---	---
13	0.0	0.0	0.0	2.5	0.0	1.0	8.5	2.5	5.5	---	---	---
14	0.0	0.0	0.0	2.0	0.0	0.5	9.5	3.5	6.0	---	---	---
15	0.5	0.0	0.0	0.0	0.0	0.0	5.5	2.5	3.5	---	---	---
16	0.5	0.0	0.0	0.0	0.0	0.0	4.0	1.0	2.0	---	---	---
17	0.5	0.0	0.0	0.5	0.0	0.0	3.0	0.0	1.0	---	---	---
18	0.5	0.0	0.0	1.5	0.0	0.0	2.0	0.0	1.0	---	---	---
19	0.5	0.0	0.0	2.0	0.0	0.5	4.5	0.5	2.0	---	---	---
20	0.5	0.0	0.0	3.5	0.0	1.0	6.0	0.5	3.0	---	---	---
21	1.0	0.0	0.0	5.5	0.0	2.0	8.0	1.0	4.0	---	---	---
22	1.5	0.0	0.5	5.5	0.0	2.5	---	---	---	---	---	---
23	2.0	0.5	1.0	2.5	0.0	1.0	---	---	---	---	---	---
24	3.0	0.0	1.0	4.5	0.5	2.0	---	---	---	---	---	---
25	3.0	0.0	1.0	4.0	0.0	2.0	---	---	---	---	---	---
26	3.0	0.0	1.0	6.5	0.5	3.0	---	---	---	---	---	---
27	4.0	0.0	1.5	6.5	0.0	3.0	---	---	---	---	---	---
28	3.5	0.0	1.0	7.0	0.5	3.0	---	---	---	---	---	---
29	---	---	---	7.5	1.0	3.5	---	---	---	---	---	---
30	---	---	---	7.5	1.0	3.5	---	---	---	---	---	---
31	---	---	---	7.5	1.0	3.5	---	---	---	---	---	---
MONTH	4.0	0.0	0.2	7.5	0.0	1.2	---	---	---	---	---	---

Remark Codes Used in This report:
  < -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336779 COLD CREEK AT MOUTH, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°54'44", long 119°58'06", in SE $^{1}/_{4}$ SE$^{1}/_{4}$ sec.03, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 600 ft upstream of mouth, about 0.5 mi downstream from Pioneer Trail Road, and 1.7 mi south of South Lake Tahoe, CA.

DRAINAGE AREA.--12.8 mi^2.

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In September 1997, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor streamflows and water temperature within the Upper Truckee River-Trout Creek watershed. Records represent water temperature at probe within 0.5°C. Interruptions in record due to loss of communication between stream and sensor. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 18.5°C, July 26, August 10, 2001; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.5°C, July 14; minimum, freezing point, many days November to April.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.0	7.0	9.5	6.5	2.5	4.5	1.0	0.0	0.5	3.5	2.0	2.5
2	13.0	7.0	9.5	6.5	3.0	4.5	0.5	0.0	0.5	4.0	2.5	3.0
3	12.5	7.0	9.5	6.5	3.0	4.5	0.0	0.0	0.0	3.5	1.0	2.5
4	12.5	7.0	9.0	7.0	3.0	4.5	0.0	0.0	0.0	1.5	0.0	1.0
5	12.0	6.5	9.0	7.0	3.0	4.5	0.0	0.0	0.0	3.0	0.5	2.0
6	11.0	6.5	8.5	6.5	3.0	4.5	1.0	0.0	0.5	4.0	2.0	3.0
7	11.0	6.0	8.5	5.5	2.0	4.0	1.5	0.5	1.0	4.0	2.0	2.5
8	10.5	6.5	8.0	5.5	2.0	3.5	2.0	0.0	1.0	4.5	2.0	2.5
9	9.0	4.5	6.5	4.5	1.5	3.0	2.0	1.0	1.5	3.0	1.0	2.0
10	8.5	3.5	6.0	5.0	2.0	3.5	1.5	0.5	1.0	3.0	1.0	1.5
11	9.5	5.5	7.0	6.5	4.0	5.0	1.5	0.5	1.0	2.5	0.5	1.5
12	10.0	5.0	7.0	5.0	3.0	4.0	1.5	0.0	0.5	3.5	1.0	2.0
13	9.0	3.5	6.0	5.5	3.0	4.0	2.5	0.5	1.5	2.0	0.0	1.0
14	9.0	4.5	6.5	6.0	3.0	4.0	1.5	0.0	0.5	2.0	0.0	0.5
15	9.0	4.5	7.0	5.5	2.5	4.0	0.0	0.0	0.0	1.0	0.0	0.5
16	9.5	5.0	7.0	6.0	3.5	4.5	1.0	0.0	0.5	0.5	0.0	0.0
17	8.5	4.5	6.5	5.0	3.0	4.0	1.5	0.5	1.0	0.0	0.0	0.0
18	9.0	4.5	6.5	4.5	2.0	3.0	1.0	0.0	0.5	0.0	0.0	0.0
19	8.5	4.0	6.5	4.5	2.0	3.0	2.0	0.5	1.0	0.0	0.0	0.0
20	9.0	5.0	7.0	5.5	2.5	4.0	1.5	0.0	1.0	0.0	0.0	0.0
21	9.0	4.5	6.5	5.0	3.5	4.5	1.5	0.5	1.0	0.0	0.0	0.0
22	8.0	4.0	6.0	5.0	3.0	4.5	1.5	0.5	1.0	0.5	0.0	0.0
23	9.0	4.5	6.5	3.5	1.5	2.5	2.0	0.5	1.5	0.0	0.0	0.0
24	7.5	3.0	5.5	3.5	0.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
25	8.0	3.5	5.5	1.5	0.0	0.5	1.5	0.0	0.5	0.5	0.0	0.5
26	8.0	4.0	5.5	0.5	0.0	0.5	3.0	1.5	2.5	1.5	0.5	1.0
27	8.5	4.5	6.0	0.5	0.0	0.5	3.5	2.0	2.5	1.5	0.0	1.0
28	8.5	4.5	6.5	1.5	0.0	1.0	3.0	2.0	2.5	0.0	0.0	0.0
29	8.0	4.5	6.0	1.5	0.0	0.5	3.5	2.0	3.0	0.0	0.0	0.0
30	8.0	6.0	7.0	2.0	0.5	1.0	3.5	2.0	3.0	0.0	0.0	0.0
31	7.0	4.5	5.5	---	---	---	4.0	2.0	2.5	0.0	0.0	0.0
MONTH	13.0	3.0	7.0	7.0	0.0	3.3	4.0	0.0	1.1	4.5	0.0	1.0

10336779 COLD CREEK AT MOUTH, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	4.0	0.0	1.5	9.5	2.0	5.5	7.5	1.0	4.0
2	0.0	0.0	0.0	4.5	0.0	1.5	10.0	2.5	5.5	10.5	2.0	6.0
3	0.0	0.0	0.0	5.0	0.0	1.5	10.0	2.5	6.0	11.0	3.5	7.0
4	0.0	0.0	0.0	6.0	0.0	2.5	10.0	3.0	5.5	10.0	4.0	7.0
5	0.0	0.0	0.0	7.0	1.0	3.5	8.0	2.5	5.0	11.0	3.5	7.0
6	0.5	0.0	0.0	4.5	0.0	2.5	9.0	2.5	5.5	11.5	3.5	7.5
7	2.0	0.0	0.5	2.5	0.0	1.0	9.5	2.5	5.5	11.5	4.0	7.5
8	2.5	0.0	1.0	2.0	0.0	0.5	8.0	3.0	5.5	10.0	2.5	6.0
9	2.0	0.0	0.5	3.0	0.0	1.0	6.0	3.5	4.5	11.0	3.0	6.5
10	2.5	0.0	1.0	3.5	0.5	1.5	10.0	3.0	5.5	9.0	3.5	6.0
11	3.5	0.5	1.5	6.0	1.0	3.0	10.0	3.5	6.0	11.0	3.5	6.5
12	4.0	1.0	2.0	7.0	2.5	4.0	10.0	3.0	6.0	10.5	3.5	7.0
13	3.5	1.0	2.0	4.5	1.0	2.0	10.0	3.0	6.0	11.5	4.0	7.5
14	4.5	1.5	2.5	2.0	0.0	1.0	11.0	4.0	6.5	12.5	5.0	8.5
15	4.0	1.0	2.5	1.5	0.0	0.5	5.5	2.5	4.0	12.5	5.5	8.5
16	5.0	1.5	2.5	1.5	0.0	0.5	4.5	1.0	2.5	12.5	5.0	8.5
17	3.0	1.0	1.5	3.5	0.0	1.0	4.5	0.0	2.0	13.5	6.0	9.5
18	4.5	1.0	2.0	3.0	0.0	1.0	2.5	0.5	1.5	13.5	6.5	10.0
19	4.0	1.5	2.5	6.5	0.0	2.5	5.5	0.5	2.5	12.0	6.0	8.5
20	5.5	2.0	3.5	7.5	1.0	3.5	7.5	1.0	3.5	8.0	4.0	6.0
21	5.5	1.0	3.0	8.5	1.5	4.0	9.0	1.5	4.5	8.5	2.5	5.0
22	6.0	1.0	3.0	8.5	1.5	4.5	10.0	2.0	5.5	10.0	2.0	5.5
23	5.5	2.0	3.0	4.5	1.0	2.5	10.0	2.5	6.0	11.5	3.5	7.0
24	5.5	0.5	2.5	7.5	1.5	3.5	10.0	3.5	6.5	12.0	4.0	8.0
25	6.0	0.5	2.5	7.5	0.5	3.5	9.5	4.0	6.5	12.0	6.0	9.0
26	6.0	0.5	2.5	9.0	1.5	4.5	7.0	4.0	5.5	13.0	5.5	9.0
27	6.5	1.0	3.0	9.5	1.5	4.5	8.0	3.0	5.0	12.0	6.5	9.0
28	6.0	0.5	2.5	10.0	2.0	5.0	7.0	1.5	4.0	13.5	6.0	10.0
29	---	---	---	10.5	2.0	5.5	4.0	0.5	2.5	15.0	7.5	11.0
30	---	---	---	9.5	2.0	5.0	8.5	1.5	4.0	15.5	8.5	12.0
31	---	---	---	9.5	2.0	5.0	---	---	---	15.0	8.5	12.0
MONTH	6.5	0.0	1.7	10.5	0.0	2.7	11.0	0.0	4.8	15.5	1.0	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	8.5	11.0	15.5	9.5	12.5	16.5	10.5	13.0	---	---	---
2	11.5	5.0	8.5	16.0	10.5	13.0	16.5	10.5	13.0	---	---	---
3	12.5	6.5	9.5	15.5	10.0	12.5	16.0	10.0	12.5	---	---	---
4	13.5	7.5	10.5	15.0	9.0	12.0	15.5	9.5	12.0	---	---	---
5	14.5	8.5	11.5	15.0	9.5	12.0	14.5	9.0	11.5	---	---	---
6	14.0	8.0	11.0	14.5	9.0	12.0	14.0	8.0	10.5	---	---	---
7	13.0	8.0	11.0	16.0	10.5	13.0	13.5	7.0	10.0	---	---	---
8	12.5	7.5	10.0	14.5	9.0	12.0	14.0	7.0	10.0	---	---	---
9	10.0	5.0	7.5	16.0	9.5	12.5	---	---	---	---	---	---
10	11.0	5.0	8.0	17.0	11.0	13.5	---	---	---	---	---	---
11	12.5	6.0	9.5	17.0	11.5	14.0	---	---	---	---	---	---
12	13.0	7.5	10.5	15.0	12.5	13.5	---	---	---	12.5	6.5	9.0
13	13.5	8.5	11.0	17.0	11.0	13.5	---	---	---	13.0	6.5	9.0
14	13.5	7.5	10.5	17.5	12.0	14.5	---	---	---	13.0	6.5	9.5
15	13.0	7.0	10.5	17.0	11.5	14.0	---	---	---	13.5	8.0	10.0
16	13.0	7.0	10.5	16.5	11.0	13.5	---	---	---	11.5	6.5	8.5
17	14.0	8.0	11.0	15.5	11.5	13.0	---	---	---	11.5	6.0	8.0
18	15.0	9.5	12.0	11.5	9.5	10.5	---	---	---	12.0	6.0	8.5
19	14.0	8.5	11.5	14.5	8.5	11.5	---	---	---	12.0	6.0	8.0
20	13.5	9.0	11.5	16.5	10.0	13.0	---	---	---	12.0	6.0	8.5
21	13.0	9.0	11.0	15.0	11.0	13.0	---	---	---	12.5	6.5	9.0
22	13.5	8.0	10.5	15.5	10.0	12.5	---	---	---	12.5	6.5	9.0
23	14.0	9.0	11.5	15.0	9.0	11.5	---	---	---	12.5	6.5	9.0
24	13.5	8.5	11.5	16.0	9.5	12.5	---	---	---	12.0	6.5	9.0
25	15.0	9.5	12.5	15.0	9.0	12.0	---	---	---	12.0	6.0	8.5
26	15.0	10.5	13.0	14.5	8.5	11.0	---	---	---	11.5	6.0	8.0
27	14.5	9.0	12.0	15.5	9.5	12.0	---	---	---	10.0	6.5	8.0
28	14.5	9.0	11.5	16.0	10.0	13.0	---	---	---	10.5	6.0	7.5
29	14.5	9.0	12.0	16.5	10.0	13.0	---	---	---	10.0	4.5	7.0
30	15.0	8.5	12.0	17.0	10.5	13.5	---	---	---	9.0	4.0	6.0
31	---	---	---	16.5	10.5	13.5	---	---	---	---	---	---
MONTH	15.0	5.0	10.8	17.5	8.5	12.7	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°55'12", long 119°58'17", in NW $^1/_4$ SE $^1/_4$ sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 5 ft upstream from Martin Avenue Bridge, 500 ft upstream from Heavenly Valley Creek, and 1.8 mi east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,241.57 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Minor diversions for local water supply upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 535 ft^3/s, February 1, 1963, gage height, 11.14 ft, and January 2, 1997, gage height, 9.33 ft, from rating curve extended above 250 ft^3/s on basis of computation of peak flow (weir formula); minimum daily, 2.5 ft^3/s, September 7, 1988.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 15	0045	*69	*5.92				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	10	13	14	e13	16	27	32	62	23	13	10
2	7.9	10	e12	15	e13	e15	30	31	63	22	13	9.9
3	7.8	10	e12	16	e13	e15	35	33	59	22	13	9.8
4	7.8	10	e12	16	e13	16	41	36	57	22	12	9.8
5	7.7	10	e12	19	e13	15	44	38	58	21	12	9.9
6	7.9	10	e12	20	e13	e15	42	40	58	20	12	10
7	7.9	10	e12	19	e13	e15	40	43	57	20	12	10
8	8.0	10	e12	16	e13	e15	41	42	57	19	12	10
9	8.0	10	e12	14	e13	e15	43	41	54	19	12	10
10	8.1	10	e12	13	e13	15	42	41	52	18	12	9.9
11	8.1	11	e12	14	e13	15	44	39	49	18	11	9.7
12	8.1	12	e12	14	e13	16	46	41	47	18	11	9.6
13	8.1	12	12	14	13	16	45	43	47	19	11	9.5
14	8.1	12	e12	e13	13	14	51	46	46	18	11	9.4
15	8.1	11	e12	e13	13	e14	56	50	44	17	11	9.2
16	8.1	11	e12	e13	13	e17	44	50	43	16	11	9.3
17	8.1	11	e12	e13	13	e15	42	53	41	16	11	9.4
18	8.1	11	e12	e13	13	16	39	57	41	19	10	9.5
19	8.1	10	e12	e13	14	17	35	57	40	21	11	9.5
20	7.9	11	13	e13	18	15	33	57	40	17	10	9.3
21	7.9	12	13	e13	16	15	32	52	39	17	11	9.3
22	8.0	26	13	e13	16	17	33	48	38	16	11	9.2
23	8.1	13	12	e13	17	17	34	46	36	16	11	9.1
24	8.0	20	e12	e13	16	15	35	46	34	15	11	9.0
25	8.1	14	e12	e13	16	15	37	47	32	15	10	8.9
26	8.1	17	12	e13	16	15	40	48	30	14	10	9.0
27	8.1	16	12	e13	16	16	37	48	28	14	10	9.0
28	8.1	13	12	e13	16	18	34	47	26	14	10	9.1
29	8.0	e12	13	e13	---	20	36	50	25	14	10	9.4
30	9.4	e12	13	e13	---	23	34	56	24	13	10	9.5
31	12	---	e13	e13	---	25	---	60	---	13	10	---
TOTAL	253.4	367	379	438	395	503	1172	1418	1327	546	345	285.2
MEAN	8.174	12.23	12.23	14.13	14.11	16.23	39.07	45.74	44.23	17.61	11.13	9.507
MAX	12	26	13	20	18	25	56	60	63	23	13	10
MIN	7.7	10	12	13	13	14	27	31	24	13	10	8.9
AC-FT	503	728	752	869	783	998	2320	2810	2630	1080	684	566

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY)

MEAN	17.21	19.54	20.98	24.39	24.92	29.87	43.48	77.73	91.53	49.16	24.00	17.26
MAX	37.6	61.1	64.0	115	68.7	85.0	81.9	184	286	188	88.7	49.6
(WY)	1983	1984	1984	1997	1986	1986	1982	1969	1983	1995	1983	1983
MIN	5.19	7.43	8.18	8.00	8.02	11.0	15.7	14.2	10.9	5.21	3.43	3.71
(WY)	1989	1978	1991	1991	1991	1977	1988	1988	1988	1988	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1961 - 2002	
ANNUAL TOTAL	5018.7		7428.6			
ANNUAL MEAN	13.75		20.35		36.69	
HIGHEST ANNUAL MEAN					85.3	1983
LOWEST ANNUAL MEAN					10.2	1977
HIGHEST DAILY MEAN	39	May 12	63	Jun 2	501	Jan 2 1997
LOWEST DAILY MEAN	5.9	Aug 29	7.7	Oct 1	2.5	Sep 7 1988
ANNUAL SEVEN-DAY MINIMUM	6.7	Aug 27	7.8	Oct 1	3.0	Sep 9 1977
MAXIMUM PEAK FLOW			69	Apr 15	535	Feb 1 1963
MAXIMUM PEAK STAGE			5.92	Apr 15	11.14	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	9950		14730		26580	
10 PERCENT EXCEEDS	24		44		82	
50 PERCENT EXCEEDS	12		13		22	
90 PERCENT EXCEEDS	7.6		9.2		9.0	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980-85, 1988, 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to September 1983.

WATER TEMPERATURE: September 1997 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1985, October 1987 to September 1988.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in record due to vandalism of sensor. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 microsiemens, August 24, 1981; minimum recorded 14 microsiemens, May 28, 1982.

WATER TEMPERATURE: Maximum, 21.5°C, August 10, 12, 13, 17, 29, 2001; minimum, freezing point on many days during winter months.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 162 tons, February 16, 1982; minimum daily, 0 ton, October 15, 16, 1973

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 20.5°C, July 14, August 14; minimum, freezing point, many days January to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUN									
28...	1620	27	7.4	34	23.5	16.5	.38	<.003	.39

Date	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUN								
28...	.16	.002	.031	.016	.009	310	8	.58

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	15.0	9.0	11.5	7.0	3.5	5.5	1.0	0.5	0.5	2.0	1.0	1.5
2	15.0	9.5	11.5	6.5	3.5	5.0	1.0	0.5	0.5	2.0	1.0	1.5
3	15.0	9.0	11.5	7.0	3.5	5.0	0.5	0.5	0.5	2.0	0.5	1.0
4	14.5	9.0	11.5	7.0	3.5	5.0	0.5	0.5	0.5	1.0	0.5	0.5
5	14.5	8.5	11.0	7.0	3.5	5.0	0.5	0.5	0.5	1.5	0.5	1.0
6	13.5	8.5	11.0	6.0	3.5	4.5	0.5	0.5	0.5	2.5	1.5	2.0
7	13.0	7.5	10.0	6.0	3.0	4.5	0.5	0.5	0.5	3.5	1.0	2.0
8	12.0	8.0	10.0	6.0	2.0	3.5	0.5	0.5	0.5	3.5	1.5	2.5
9	12.0	6.5	8.5	5.0	2.0	3.0	0.5	0.5	0.5	3.0	0.5	1.5
10	11.0	5.0	7.5	5.0	2.0	3.5	0.5	0.5	0.5	3.0	0.5	1.5
11	10.5	7.0	8.5	6.0	4.0	5.0	0.5	0.5	0.5	2.0	0.5	1.0
12	12.0	6.0	8.5	5.0	3.5	4.0	0.5	0.5	0.5	2.5	0.5	1.0
13	11.5	5.5	8.0	5.0	3.0	4.0	1.0	0.5	0.5	1.5	0.5	0.5
14	10.0	6.0	7.5	6.0	3.5	4.5	0.5	0.5	0.5	1.0	0.5	0.5
15	10.0	6.0	8.0	5.0	2.5	4.0	0.5	0.5	0.5	1.0	0.5	0.5
16	10.5	6.0	8.0	6.0	3.5	4.5	0.5	0.5	0.5	0.5	0.5	0.5
17	10.0	6.0	7.5	5.0	3.0	4.0	0.5	0.5	0.5	0.5	0.5	0.5
18	11.0	6.0	8.0	4.5	2.0	3.5	0.5	0.5	0.5	0.5	0.5	0.5
19	9.5	5.5	7.5	4.0	1.5	3.0	0.5	0.5	0.5	0.5	0.5	0.5
20	10.5	6.0	8.0	4.5	2.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5
21	10.5	5.5	7.5	5.0	3.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5
22	9.5	5.0	7.0	5.0	4.0	4.5	0.5	0.5	0.5	0.5	0.5	0.5
23	10.5	6.0	7.5	4.0	2.0	3.0	1.0	0.5	0.5	0.5	0.0	0.5
24	9.5	4.5	6.5	3.0	2.0	3.0	0.5	0.5	0.5	0.5	0.0	0.5
25	9.0	4.5	6.5	2.0	1.0	1.5	0.5	0.5	0.5	0.5	0.0	0.5
26	9.5	4.5	6.5	1.5	1.0	1.0	1.5	0.5	1.0	0.5	0.5	0.5
27	9.0	5.0	7.0	1.0	1.0	1.0	2.0	1.0	1.5	0.5	0.0	0.5
28	8.5	5.0	7.0	1.0	1.0	1.0	1.5	1.0	1.0	0.5	0.5	0.5
29	8.0	5.5	6.5	1.0	0.5	1.0	2.0	1.0	1.5	0.5	0.5	0.5
30	7.5	6.5	7.0	1.0	1.0	1.0	2.0	1.0	1.5	0.5	0.0	0.5
31	8.0	5.0	6.5	---	---	---	2.0	1.0	1.5	0.5	0.0	0.0
MONTH	15.0	4.5	8.4	7.0	0.5	3.5	2.0	0.5	0.7	3.5	0.0	0.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	2.5	0.5	1.0	---	---	---	---	---	---
2	0.5	0.0	0.0	2.5	0.0	1.0	---	---	---	---	---	---
3	0.5	0.0	0.0	2.5	0.0	1.0	---	---	---	---	---	---
4	0.5	0.0	0.0	3.0	0.5	1.5	---	---	---	---	---	---
5	0.5	0.0	0.0	6.0	0.5	2.5	---	---	---	---	---	---
6	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
7	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
8	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
9	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
10	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
11	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
12	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
13	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
14	2.0	0.5	1.0	---	---	---	---	---	---	---	---	---
15	1.5	0.0	1.0	---	---	---	---	---	---	11.5	5.0	8.0
16	2.5	0.0	1.0	---	---	---	---	---	---	12.0	5.0	8.0
17	1.0	0.0	0.5	---	---	---	---	---	---	13.0	5.5	9.0
18	2.0	0.0	0.5	---	---	---	---	---	---	12.5	6.0	9.0
19	2.0	0.5	1.0	---	---	---	---	---	---	10.0	5.5	7.5
20	2.5	0.5	1.5	---	---	---	---	---	---	8.0	4.0	6.0
21	3.0	0.0	1.0	---	---	---	---	---	---	8.0	2.5	5.0
22	3.5	0.0	1.5	---	---	---	---	---	---	9.5	2.5	5.5
23	3.0	1.0	2.0	---	---	---	---	---	---	11.0	3.5	7.0
24	3.5	0.5	1.5	---	---	---	---	---	---	11.5	4.0	7.5
25	3.5	0.0	1.5	---	---	---	---	---	---	12.0	6.0	8.5
26	3.5	0.0	1.5	---	---	---	---	---	---	12.5	5.5	8.5
27	4.5	0.5	2.0	---	---	---	---	---	---	12.0	6.5	9.0
28	4.0	0.5	2.0	---	---	---	---	---	---	13.0	6.0	9.5
29	---	---	---	---	---	---	---	---	---	14.5	7.5	10.5
30	---	---	---	---	---	---	---	---	---	14.5	8.0	11.0
31	---	---	---	---	---	---	---	---	---	14.5	8.5	11.0
MONTH	4.5	0.0	0.7	---	---	---	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	8.5	10.5	18.0	9.5	13.5	19.0	11.5	15.0	18.5	10.0	13.5
2	12.0	6.0	8.5	18.5	10.5	14.0	19.0	11.5	15.0	18.0	10.0	13.5
3	13.0	6.5	9.5	18.0	10.0	13.5	19.0	11.0	14.5	17.5	10.0	13.0
4	14.0	7.5	10.5	17.5	9.0	13.0	18.0	10.5	14.0	15.5	10.5	12.5
5	15.0	8.5	11.5	18.0	9.5	13.5	17.5	10.5	13.5	16.5	9.5	12.5
6	14.5	8.5	11.0	17.5	9.5	13.5	17.0	9.0	12.5	16.5	10.0	12.5
7	14.0	8.5	11.0	19.0	10.5	14.5	16.5	8.5	12.0	14.5	7.0	10.0
8	13.5	8.0	10.0	18.0	9.5	13.5	17.0	8.5	12.0	14.0	6.5	9.5
9	11.0	5.5	8.0	19.0	9.5	14.0	17.5	9.0	13.0	14.5	6.0	9.5
10	12.5	5.0	8.5	20.0	10.5	15.0	18.0	10.0	13.5	15.0	6.5	10.0
11	13.5	6.0	9.5	19.0	11.5	15.0	16.5	10.5	13.5	15.5	7.0	10.5
12	14.0	7.5	10.5	16.0	13.0	14.5	19.0	10.5	14.0	15.5	7.5	11.0
13	14.0	8.5	11.0	18.5	11.5	14.5	19.5	11.5	15.0	16.0	7.5	11.0
14	15.0	8.0	11.0	20.5	12.5	16.0	20.5	12.0	15.5	15.0	8.0	11.0
15	14.5	7.0	10.5	19.5	12.0	15.5	20.0	12.0	15.5	15.0	8.5	11.0
16	14.5	7.0	10.5	19.5	11.5	15.0	20.0	11.5	15.0	15.0	7.5	10.5
17	16.0	8.0	11.5	16.5	12.0	14.5	18.5	10.5	14.5	13.5	7.0	9.5
18	17.0	9.5	12.5	13.5	10.0	11.5	19.0	10.0	14.0	14.5	6.5	10.0
19	16.0	9.0	12.0	17.5	9.0	12.5	18.0	9.5	13.0	14.5	6.5	10.0
20	15.5	9.0	12.0	18.0	10.5	14.0	16.5	9.0	12.5	14.5	6.5	10.0
21	14.5	9.0	11.5	16.5	11.5	14.0	16.0	7.5	11.5	15.0	7.0	10.5
22	15.5	8.0	11.5	19.0	10.5	14.5	16.5	8.5	12.0	15.0	7.5	10.5
23	16.5	8.5	12.0	18.0	9.5	13.5	16.5	8.0	11.5	15.0	7.5	10.5
24	16.0	8.0	12.0	18.5	9.5	13.5	16.5	7.5	11.5	14.5	7.0	10.5
25	17.5	9.5	13.0	18.0	9.5	13.5	16.5	8.0	11.5	14.5	7.0	10.0
26	16.5	10.5	13.5	17.5	9.0	13.0	16.0	7.5	11.5	14.0	6.5	9.5
27	17.5	9.0	13.0	18.5	10.0	14.0	17.0	8.5	12.0	11.5	7.0	8.5
28	17.0	9.0	12.5	19.0	11.0	14.5	17.0	9.0	12.5	13.0	6.5	8.5
29	17.5	9.0	13.0	18.5	11.0	14.5	16.5	9.0	12.5	12.0	5.5	8.0
30	17.5	8.5	13.0	19.5	11.5	15.5	17.5	10.0	13.0	11.0	5.0	7.5
31	---	---	---	19.5	12.0	15.5	18.0	10.0	13.0	---	---	---
MONTH	17.5	5.0	11.2	20.5	9.0	14.1	20.5	7.5	13.2	18.5	5.0	10.5

Remark Codes Used in This report:
<-- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°55'56", long 119°58'40", in SE 1/4 NW 1/4 sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, downstream side of U.S. Highway 50 bridge, 1.2 mi upstream from Lake Tahoe, and 1.4 mi southwest of South Lake Tahoe Post Office.

DRAINAGE AREA.--40.4 mi^2.

PERIOD OF RECORD.--Water years 1972-74, 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Instantaneous: October 1971 to June 1974, October 1988 to September 1992. Continuous: September 1997 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1988 to September 1992.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 22.0°C, July 8, 1990, August 2, 2001; minimum, freezing point on many days during winter months.

SEDIMENT CONCENTRATION: Maximum daily mean, 300 mg/L, January 15, 1974; minimum daily mean, 0 mg/L, at times in most years.

SEDIMENT LOAD: Maximum daily, 52 tons, January 15, 1974; minimum daily, 0 ton, at times in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 21.0°C, July 14; minimum, freezing point, many days November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT								
02...	1030	7.8	65	18.5	10.8	--	<.003	.17
NOV								
07...	1210	10	62	12.0	4.6	--	.008	.11
JAN								
09...	0850	15	60	-2.5	.8	2.0	.005	.23
SEP								
11...	1220	10	54	20.5	11.0	--	.003	.09

Date	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT							
02...	.003	.023	--	.009	342	3	.06
NOV							
07...	.003	.015	--	.008	263	5	.14
JAN							
09...	.006	.025	.017	.007	431	5	.20
SEP							
11...	.003	.019	.015	.009	350	4	.11

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	10.0	11.5	6.5	3.5	5.0	0.0	0.0	0.0	1.0	0.5	1.0
2	13.0	10.0	12.0	6.0	3.0	4.5	0.0	0.0	0.0	1.5	0.5	1.0
3	13.0	10.0	11.5	6.0	3.0	4.5	0.0	0.0	0.0	2.0	0.0	1.0
4	12.5	10.0	11.5	6.0	3.0	5.0	0.0	0.0	0.0	1.0	0.0	0.5
5	12.0	9.5	11.0	6.0	3.5	5.0	0.0	0.0	0.0	1.0	0.0	0.5
6	12.0	10.0	11.0	6.0	3.0	4.5	0.0	0.0	0.0	2.5	1.0	1.5
7	11.0	8.5	10.0	5.5	3.0	4.0	0.5	0.0	0.0	3.0	0.5	1.5
8	11.0	9.0	9.5	4.5	2.0	3.5	0.5	0.0	0.0	3.0	1.0	2.0
9	9.0	7.0	8.5	4.0	1.5	3.0	0.0	0.0	0.0	2.5	0.5	1.5
10	8.5	6.0	7.5	4.5	1.5	3.0	0.0	0.0	0.0	2.0	0.5	1.5
11	8.5	7.0	8.0	6.0	3.5	5.0	0.0	0.0	0.0	1.5	0.0	1.0
12	9.0	6.5	8.0	5.5	3.5	4.0	0.0	0.0	0.0	2.5	0.0	1.0
13	8.5	6.5	8.0	5.0	3.0	3.5	0.0	0.0	0.0	1.0	0.0	0.5
14	8.5	6.5	7.5	5.5	3.5	4.5	0.0	0.0	0.0	1.0	0.0	0.5
15	8.0	6.5	7.5	5.0	3.0	4.0	0.5	0.0	0.0	1.0	0.0	0.5
16	8.5	6.5	8.0	5.5	3.0	4.5	0.5	0.0	0.0	1.0	0.0	0.5
17	8.5	6.5	7.5	5.0	3.5	4.5	0.0	0.0	0.0	0.5	0.0	0.5
18	8.5	6.0	7.5	4.0	2.0	3.5	0.5	0.0	0.0	1.0	0.0	0.5
19	8.0	6.0	7.5	3.5	1.5	2.5	0.5	0.0	0.0	0.5	0.0	0.5
20	8.5	6.5	8.0	4.0	2.5	3.0	0.5	0.0	0.0	0.5	0.0	0.0
21	8.5	7.0	8.0	4.5	3.0	4.0	0.5	0.5	0.5	1.0	0.0	0.5
22	8.0	6.5	7.0	5.0	3.5	4.5	0.5	0.5	0.5	1.0	0.0	0.0
23	8.5	6.5	7.5	3.5	1.5	2.5	0.5	0.5	0.5	0.5	0.0	0.0
24	7.5	6.0	6.5	3.0	1.0	2.5	0.5	0.5	0.5	0.5	0.0	0.0
25	7.0	5.5	6.5	1.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.5
26	7.5	5.5	6.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
27	7.5	6.0	6.5	1.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
28	7.5	5.5	6.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0
29	7.0	6.0	6.5	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0	0.0
30	7.5	6.5	6.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.0
31	7.5	4.5	6.0	---	---	---	1.0	0.5	0.5	0.5	0.0	0.0
MONTH	13.0	4.5	8.2	6.5	0.0	3.2	1.0	0.0	0.2	3.0	0.0	0.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	3.0	0.0	1.5	9.0	1.5	5.0	7.0	2.0	4.5
2	0.5	0.0	0.0	3.0	0.0	1.0	9.0	2.0	5.5	10.5	2.5	6.0
3	0.0	0.0	0.0	3.5	0.0	1.5	9.5	2.0	5.5	11.5	4.0	7.5
4	0.0	0.0	0.0	4.5	0.0	2.0	8.0	3.0	5.5	11.0	4.5	8.0
5	0.0	0.0	0.0	5.5	0.0	3.0	7.5	2.5	5.0	11.5	4.5	7.5
6	0.5	0.0	0.0	4.0	0.0	2.5	8.5	2.5	5.5	11.5	4.5	8.0
7	0.0	0.0	0.0	1.0	0.0	0.0	9.0	2.5	5.5	11.5	5.0	8.0
8	0.5	0.0	0.0	1.5	0.0	0.5	7.5	3.0	5.5	10.0	4.0	7.0
9	0.5	0.0	0.0	1.5	0.0	0.5	6.0	3.5	4.5	11.0	4.0	7.0
10	0.5	0.0	0.0	1.5	0.0	0.5	9.5	3.0	6.0	9.5	4.5	6.5
11	0.5	0.0	0.0	4.5	0.0	2.0	9.5	4.0	6.5	11.0	4.0	7.0
12	0.5	0.0	0.0	5.0	1.5	3.0	9.5	3.5	6.5	10.5	4.0	7.5
13	0.5	0.0	0.0	4.0	0.0	2.0	10.0	3.5	6.5	11.5	5.5	8.5
14	0.5	0.0	0.0	2.5	0.0	1.0	10.5	4.5	7.0	12.5	5.5	8.5
15	0.0	0.0	0.0	0.5	0.0	0.0	7.0	3.0	4.5	12.0	6.0	9.0
16	1.0	0.0	0.0	1.0	0.0	0.0	4.5	1.5	2.5	12.0	5.5	9.0
17	0.5	0.0	0.0	1.5	0.0	0.5	4.5	0.0	2.0	13.5	6.5	9.5
18	1.0	0.0	0.5	2.5	0.0	1.0	2.0	0.0	1.5	13.0	7.0	10.0
19	1.5	0.0	0.5	4.5	0.0	2.0	5.5	0.0	2.5	11.0	6.5	8.5
20	4.0	0.5	2.0	5.5	0.0	2.5	7.0	1.0	4.0	8.5	5.0	6.5
21	4.0	0.0	1.5	6.5	0.5	3.5	9.0	1.5	5.0	8.5	3.0	5.5
22	4.5	0.0	2.0	7.0	1.0	4.0	10.0	2.5	6.0	10.0	3.0	6.5
23	4.5	1.0	2.5	4.5	0.5	2.5	10.5	3.0	6.5	11.5	4.5	7.5
24	4.5	0.0	2.0	6.0	1.0	3.0	9.5	4.0	6.5	12.0	5.0	8.5
25	5.0	0.0	2.0	5.5	0.5	3.0	10.5	4.5	7.5	12.5	7.0	9.5
26	5.0	0.0	2.0	8.0	1.0	4.5	7.5	5.0	6.0	12.5	6.5	9.5
27	5.0	0.0	2.5	8.0	1.5	4.5	9.0	3.5	5.5	12.5	7.5	9.5
28	5.0	0.0	2.5	8.5	1.5	5.0	7.0	2.5	5.0	14.0	7.0	10.0
29	---	---	---	9.0	1.5	5.0	4.5	1.5	3.0	15.0	8.5	11.5
30	---	---	---	8.5	1.5	5.0	8.0	1.5	4.5	15.0	9.0	12.0
31	---	---	---	8.5	1.0	5.0	---	---	---	15.0	9.5	12.0
MONTH	5.0	0.0	0.7	9.0	0.0	2.3	10.5	0.0	5.1	15.0	2.0	8.3

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.5	10.0	11.5	19.0	11.5	15.5	19.5	13.5	16.5	16.5	12.5	14.5
2	12.5	6.5	9.5	19.5	12.5	16.0	19.5	13.5	16.5	16.5	12.5	14.5
3	13.5	7.5	10.0	19.0	12.0	15.5	19.0	13.5	16.0	16.0	12.5	14.5
4	14.5	8.5	11.0	18.5	11.0	15.0	18.0	13.0	15.5	15.5	13.0	14.0
5	16.0	9.5	12.5	18.5	11.5	15.0	17.0	12.0	15.0	14.5	11.5	13.0
6	15.5	9.0	12.0	18.5	11.5	15.0	16.5	11.5	14.0	14.5	12.0	13.0
7	15.0	9.5	12.0	19.5	12.5	16.0	16.0	10.5	13.5	14.0	9.5	11.5
8	14.0	9.0	11.0	19.0	11.5	15.0	16.0	10.0	13.5	12.5	8.5	10.5
9	12.0	6.5	9.0	19.5	11.5	15.5	17.0	11.0	14.0	12.0	8.5	10.5
10	12.5	6.0	9.0	20.5	13.0	16.5	17.5	12.0	14.5	12.5	9.0	11.0
11	14.0	7.0	10.0	20.0	13.5	17.0	17.0	12.5	14.5	13.0	10.0	11.5
12	15.0	8.0	11.5	17.5	15.0	16.0	18.0	12.0	15.0	13.0	10.5	12.0
13	15.0	9.5	12.0	19.0	12.5	16.0	18.5	13.0	16.0	14.0	11.0	12.5
14	16.0	9.0	12.0	21.0	14.0	17.5	19.0	14.0	16.5	13.5	10.0	12.0
15	15.5	8.5	12.0	20.5	14.0	17.0	19.0	14.0	16.5	13.5	11.0	12.0
16	15.5	8.5	12.0	20.0	13.5	17.0	18.5	14.0	16.5	12.5	10.0	11.5
17	16.5	9.0	12.5	18.0	14.0	16.0	18.5	13.5	15.5	12.5	8.5	11.0
18	17.5	10.5	13.5	15.5	12.0	13.0	17.0	12.5	15.0	12.5	7.5	10.5
19	17.0	10.0	13.5	18.0	9.5	13.5	17.0	12.0	14.5	12.5	8.0	10.5
20	16.0	10.5	13.0	19.0	12.5	15.5	16.0	11.5	13.5	13.0	8.5	11.0
21	15.5	10.0	13.0	18.0	13.5	15.5	14.5	10.5	12.5	13.5	9.0	11.5
22	16.5	9.0	12.5	19.0	12.5	15.5	15.0	10.5	13.0	13.5	9.5	11.5
23	17.0	10.0	13.5	18.5	12.0	15.0	15.0	10.5	13.0	13.0	9.5	11.5
24	17.0	10.0	13.5	18.5	11.5	15.0	14.5	10.5	12.5	13.0	9.5	11.5
25	18.0	10.5	14.5	18.0	11.5	15.0	15.0	10.5	13.0	13.0	9.0	11.0
26	17.5	12.0	15.0	18.0	11.5	14.5	14.5	10.0	12.5	12.5	9.0	10.5
27	18.0	11.0	14.5	19.0	12.0	15.5	15.0	10.5	13.0	12.0	9.0	10.0
28	18.0	11.0	14.5	19.0	13.0	16.0	15.5	11.5	13.5	10.5	7.5	9.0
29	18.0	11.0	14.5	19.5	13.0	16.0	15.5	11.5	13.5	10.5	7.5	9.0
30	18.5	11.0	14.5	20.0	13.5	17.0	16.0	12.0	14.0	10.0	6.5	8.5
31	---	---	---	19.5	14.0	17.0	16.5	12.5	14.5	---	---	---
MONTH	18.5	6.0	12.3	21.0	9.5	15.7	19.5	10.0	14.4	16.5	6.5	11.5
YEAR	21.0	0.0	6.9									

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE $^1/_4$ NE $^1/_4$ sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi northeast of Tahoe City, 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City and at mi 116.27 upstream from Marble Bluff Dam.

DRAINAGE AREA.--506 mi^2, at lake outlet.

PERIOD OF RECORD.--April 1900 to current year. Monthend elevations only for October 1943 to September 1957, published in WSP 1734. Prior to October 1961, published as "at Tahoe."
CHEMICAL DATA: Water year 1969, bimonthly; 1978, biannually; 1979, annually.

REVISED RECORDS.--WDR CA-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,220.00 ft above U.S. Bureau of Reclamation datum, 6,218.86 ft above NGVD of 1929. Prior to October 1, 1957, nonrecording gages at several sites near outlet of lake at same datum except for water years 1907 and 1908, which were at a datum 5.5 ft higher. October 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to September 30, 1968, water-stage recorder on pier, 1,000 ft east of dam at lake outlet.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given represent usable contents. Usable capacity, 744,600 acre-ft between elevations 6,223 ft, natural rim of lake, and 6,229.1 ft, maximum permissible elevation by Federal Court decree. Lake elevations are referred to U.S. Bureau of Reclamation datum because that datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft, July 14, 15, 17, 18, 1907; minimum, 6220.26 ft, November 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,225.11 ft, June 7, 12, 15; minimum, 6,223.52 ft, September 30.

Capacity table (elevation, in feet, and contents, in acre-feet)

(Based on topographic information available in April 1959)

6,223	0	6,225	243,000	6,227	486,800	6,229.1	744,600
6,224	121,400	6,226	364,800	6,228	609,300		

GAGE HEIGHT, FEET , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.52	4.02	3.95	4.14	4.15	4.18	4.37	4.72	5.01	5.05	4.67	4.06
2	4.52	4.01	4.15	4.21	4.14	4.18	4.37	4.73	5.03	5.03	4.65	4.04
3	4.50	3.98	4.14	4.21	4.14	4.17	4.38	4.73	e5.06	5.01	4.62	4.02
4	4.49	3.98	4.12	4.21	4.14	4.16	4.40	4.74	5.09	5.01	4.59	3.99
5	4.47	3.97	4.11	4.23	4.13	4.16	4.40	4.74	5.10	4.99	4.53	3.95
6	4.46	3.96	4.12	4.25	4.12	4.30	4.41	4.75	5.10	4.99	4.51	3.92
7	4.43	3.93	4.11	4.24	4.17	4.31	4.43	4.77	5.11	4.95	4.50	3.88
8	4.41	3.93	4.09	4.25	4.15	4.31	4.43	4.76	5.07	4.96	4.48	3.86
9	4.39	3.90	4.08	4.26	4.14	4.30	4.44	4.75	5.10	4.95	4.47	3.85
10	4.37	3.90	4.07	4.25	4.14	4.33	4.45	4.77	5.10	4.94	4.44	3.83
11	4.35	3.89	4.06	4.24	4.13	4.32	4.46	4.77	5.09	4.93	4.43	3.82
12	4.31	3.92	4.05	4.24	4.13	4.32	4.48	4.78	5.11	4.93	4.43	3.82
13	4.29	3.89	4.07	4.24	4.13	4.32	4.49	4.79	5.10	4.92	4.42	3.81
14	4.29	3.89	4.11	4.23	4.13	4.31	4.52	4.81	5.10	4.90	4.40	3.79
15	4.26	3.87	4.08	4.22	4.13	4.31	4.51	4.82	5.11	4.89	4.39	3.77
16	4.26	3.85	4.07	4.21	4.13	4.31	4.55	4.84	5.09	4.87	4.38	3.73
17	4.23	3.83	4.10	4.19	4.16	4.31	4.58	4.85	5.09	4.90	4.35	3.73
18	4.23	3.84	4.09	4.20	4.15	4.31	4.61	4.86	5.09	4.89	4.34	3.70
19	4.21	e3.80	4.09	4.19	4.19	4.30	4.61	4.88	5.10	4.88	4.31	3.69
20	4.18	3.80	4.09	4.19	4.21	4.31	4.61	4.90	5.10	4.87	4.27	3.68
21	4.18	3.86	4.09	4.18	4.20	4.31	4.61	4.92	5.10	4.84	4.23	3.67
22	4.16	3.90	4.09	4.18	4.21	4.32	4.62	4.92	5.10	4.83	4.23	3.66
23	4.13	3.84	4.10	4.18	4.20	4.35	4.62	4.93	5.09	4.81	4.20	3.65
24	4.12	3.97	4.08	4.16	4.20	4.35	4.63	4.92	5.10	4.78	4.18	3.64
25	4.10	3.96	4.07	4.17	4.19	4.35	4.64	4.93	5.10	4.76	4.17	3.64
26	4.09	3.94	4.08	4.19	4.20	4.35	4.65	4.94	5.09	4.76	4.15	3.61
27	4.07	3.92	4.06	4.17	4.20	4.35	4.64	4.94	5.07	4.74	4.13	3.60
28	4.04	3.91	4.11	4.18	4.19	4.34	4.65	4.95	5.06	4.73	4.11	3.57
29	4.03	3.96	4.13	4.17	---	4.35	4.72	e4.96	5.06	4.72	4.08	3.55
30	4.05	3.93	4.16	4.16	---	4.35	4.71	e4.97	5.05	4.70	4.08	3.52
31	4.03	---	4.15	4.15	---	4.36	---	4.98	---	4.69	4.07	---
MEAN	4.26	3.91	4.09	4.20	4.16	4.30	4.53	4.84	5.09	4.88	4.35	3.77
MAX	4.52	4.02	4.16	4.26	4.21	4.36	4.72	4.98	5.11	5.05	4.67	4.06
MIN	4.03	3.80	3.95	4.14	4.12	4.16	4.37	4.72	5.01	4.69	4.07	3.52
a	124,600	110,800	137,800	137,800	142,500	163,400	206,400	240,400	248,700	204,000	128,900	62,500
b	-59,800	-13,800	+27,000	0	+4,700	+20,900	+43,000	+34,000	+8,300	-44,700	-75,100	-66,400

CAL YR 2001 MEAN 5.53 MAX 6.55 MIN 3.80 b -293,900
WTR YR 2002 MEAN 4.37 MAX 5.11 MIN 3.52 b -121,900

e Estimated
a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°09'59", long 120°08'36", in NE $^1/_4$ NW $^1/_4$ sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050102, on left bank, 510 ft downstream from dam at outlet of Lake Tahoe at Tahoe City, and at mi 116.2 upstream from Marble Bluff Dam.

DRAINAGE AREA.--507 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1895 to February 1896, March 1900 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Prior to October 1961, published as "at Tahoe."

REVISED RECORDS.--WDR CA-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft above NGVD of 1929. Prior to November 12, 1912, nonrecording gage at site 370 ft upstream at different datum. November 12, 1912, to September 30, 1937, nonrecording gage; October 1, 1937, to August 21, 1957, water-stage recorder at datum 2.26 ft higher; and August 22, 1957, to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

REMARKS.--Records good. Flow completely regulated by dam at outlet of Lake Tahoe (station 10337000), 510 ft upstream. There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,690 ft^3/s, January 2, 1997, gage height, 9.59 ft; no flow for parts of many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	203	171	100	57	54	68	71	71	230	293	228
2	292	198	143	101	57	54	71	72	71	288	293	222
3	290	192	102	102	57	54	73	72	71	294	292	210
4	289	187	131	101	57	54	75	72	71	302	289	197
5	288	185	156	100	78	54	75	72	71	311	287	180
6	287	176	156	103	128	57	73	72	71	311	285	170
7	286	174	139	79	127	56	72	72	71	324	284	162
8	284	163	79	57	127	54	73	71	71	332	289	154
9	258	161	58	57	127	54	71	71	71	332	294	147
10	213	157	85	56	138	53	71	70	71	338	294	144
11	212	157	104	56	148	53	71	70	71	349	294	141
12	214	159	104	56	148	54	70	70	71	351	293	137
13	233	161	104	56	148	54	70	70	71	352	293	135
14	233	157	104	56	148	53	71	70	71	358	298	131
15	233	155	104	73	142	53	69	70	71	361	302	124
16	232	145	110	71	136	53	66	70	71	360	301	120
17	238	139	117	55	126	53	65	70	71	361	300	112
18	233	136	117	56	119	53	64	71	71	363	298	109
19	233	130	121	57	119	53	63	70	71	363	296	100
20	232	124	133	57	81	53	64	70	88	362	298	96
21	233	125	138	58	52	55	64	70	95	362	306	95
22	244	153	141	57	53	56	64	70	126	361	301	94
23	247	155	141	57	53	55	70	70	144	365	294	91
24	242	167	150	57	53	55	74	70	158	367	288	89
25	240	189	161	58	53	55	75	70	217	374	274	86
26	233	182	163	57	53	56	75	70	230	379	270	81
27	220	177	161	57	54	57	74	70	230	378	259	75
28	214	166	143	58	54	58	73	70	229	378	247	70
29	202	181	100	58	---	59	82	71	229	377	246	65
30	204	178	100	57	---	59	78	71	202	377	238	59
31	207	---	102	57	---	60	---	71	---	328	232	---
TOTAL	7571	4932	3838	2080	2693	1701	2124	2189	3297	10688	8828	3824
MEAN	244.2	164.4	123.8	67.10	96.18	54.87	70.80	70.61	109.9	344.8	284.8	127.5
MAX	305	203	171	103	148	60	82	72	230	379	306	228
MIN	202	124	58	55	52	53	63	70	71	230	232	59
AC-FT	15020	9780	7610	4130	5340	3370	4210	4340	6540	21200	17510	7580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

MEAN	181.8	196.0	232.3	239.9	295.6	260.4	178.0	167.1	237.1	276.0	313.0	266.1
MAX	413	1575	2209	2561	2375	2235	1806	1746	1673	1071	638	687
(WY)	1910	1983	1984	1997	1997	1986	1983	1958	1969	1983	1918	1983
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1932	1927	1925	1925	1925	1925	1919	1919	1921	1931	1931	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1909 - 2002	
ANNUAL TOTAL	88978		53765			
ANNUAL MEAN	243.8		147.3		234.7	
HIGHEST ANNUAL MEAN					1150	1983
LOWEST ANNUAL MEAN					0.15	1994
HIGHEST DAILY MEAN	424	Aug 31	379	Jul 26	2630	Jan 3 1997
LOWEST DAILY MEAN	58	Dec 9	52	Feb 21	0.00	Jan 4 1914
ANNUAL SEVEN-DAY MINIMUM	74	May 2	53	Feb 21	0.00	Jan 23 1914
MAXIMUM PEAK FLOW			383	Jul 25	2690	Jan 2 1997
MAXIMUM PEAK STAGE			4.32	Jul 25	9.59	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	176500		106600		170000	
10 PERCENT EXCEEDS	398		298		471	
50 PERCENT EXCEEDS	233		109		142	
90 PERCENT EXCEEDS	78		56		0.00	

PRECIPITATION RECORDS

PERIOD OF RECORD.— January to September 2002.

INSTRUMENTATION.—Heated tipping-bucket gage.

EXTREMES FOR PERIOD OF RECORD.—Maximum recorded daily precipitation, 1.49 in., March 6, 2002; no precipitation for many days.

PRECIPITATION, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	---	---	---	---	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
6	---	---	---	---	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00
7	---	---	---	---	0.35	0.28	0.00	0.00	0.00	0.00	0.00	0.00
8	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	---	---	---	---	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
10	---	---	---	---	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
11	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	---	---	---	---	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
13	---	---	---	---	0.12	0.08	0.00	0.00	0.00	0.00	0.00	0.00
14	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	---	---	---	---	0.12	0.04	0.00	0.00	0.00	0.00	0.00	0.00
16	---	---	---	---	0.08	0.03	e0.15	0.00	0.00	0.00	0.00	0.00
17	---	---	---	---	0.08	0.00	e0.06	0.00	0.00	0.12	0.00	0.00
18	---	---	---	0.00	0.00	0.00	e0.06	0.00	0.00	0.04	0.00	0.00
19	---	---	---	0.00	0.74	0.00	0.00	0.08	0.00	0.00	0.00	0.00
20	---	---	---	0.00	0.08	0.00	0.00	0.24	0.00	0.00	0.00	0.00
21	---	---	---	0.08	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
22	---	---	---	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
23	---	---	---	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00
24	---	---	---	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
25	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	---	---	---	0.51	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
27	---	---	---	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
28	---	---	---	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	---	---	---	0.00	---	0.00	0.16	0.00	0.00	0.00	0.00	0.00
30	---	---	---	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	---	---	---	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	---	---	---	1.61	2.52	0.59	0.36	0.00	0.16	0.00	0.00
MAX	---	---	---	---	0.74	1.49	0.16	0.24	0.00	0.12	0.00	0.00
MIN	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated

10337500 TRUCKEE RIVER AT TAHOE CITY, CA--Continued

(Lake Tahoe Interagency Monitoring Program)

PERIOD OF RECORD.—Water years 1978–81, 1994, 2002.

CHEMICAL DATA: Water years 1978–81.

WATER TEMPERATURE: June 1993 to September 1994.

AIR TEMPERATURE: July to September 2002.

INSTRUMENTATION.—Air temperature sensor and digital recorder.

EXTREMES FOR PERIOD OF RECORD.—Maximum recorded temperature, 31.6°C, August 13, 2002; minimum recorded, –0.7°C, September 30, 2002.

AIR TEMPERATURE, DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	27.8	9.5	28.1	8.0
2	---	---	---	---	---	---	---	---	26.8	10.3	28.1	8.1
3	---	---	---	---	---	---	---	---	23.9	8.7	25.2	8.2
4	---	---	---	---	---	---	---	---	20.8	8.3	20.5	9.0
5	---	---	---	---	---	---	---	---	19.4	7.8	18.7	11.3
6	---	---	---	---	---	---	---	---	20.3	3.7	13.7	4.2
7	---	---	---	---	---	---	---	---	21.9	4.7	14.5	-0.5
8	---	---	---	---	---	---	---	---	24.4	4.6	18.4	1.3
9	---	---	---	---	---	---	---	---	28.0	5.7	21.2	2.4
10	---	---	---	---	---	---	---	---	28.6	7.5	24.1	3.2
11	---	---	---	---	---	---	---	---	28.0	8.0	24.5	4.1
12	---	---	---	---	---	---	---	---	29.3	8.8	24.9	4.6
13	---	---	---	---	---	---	28.3	11.4	31.6	9.7	25.4	5.0
14	---	---	---	---	---	---	28.0	11.5	30.7	10.8	26.0	5.4
15	---	---	---	---	---	---	26.5	10.2	30.0	10.4	23.6	6.8
16	---	---	---	---	---	---	27.2	9.2	29.6	9.0	19.6	2.3
17	---	---	---	---	---	---	24.1	10.3	27.8	7.7	18.6	4.3
18	---	---	---	---	---	---	19.7	8.6	26.8	6.7	18.3	4.1
19	---	---	---	---	---	---	23.9	7.7	23.8	5.7	21.7	3.1
20	---	---	---	---	---	---	26.4	9.8	18.9	5.3	24.4	3.8
21	---	---	---	---	---	---	27.4	10.4	20.7	2.7	25.3	4.0
22	---	---	---	---	---	---	25.5	8.1	21.7	4.8	26.1	5.0
23	---	---	---	---	---	---	26.5	5.2	21.1	3.9	26.8	4.8
24	---	---	---	---	---	---	27.4	9.3	23.8	3.2	24.7	4.6
25	---	---	---	---	---	---	25.4	5.5	23.7	3.7	23.8	2.1
26	---	---	---	---	---	---	27.4	5.5	22.4	5.5	23.1	2.4
27	---	---	---	---	---	---	28.2	9.5	21.6	6.2	18.6	5.7
28	---	---	---	---	---	---	29.7	9.9	24.8	6.5	15.5	2.8
29	---	---	---	---	---	---	29.5	9.4	24.9	6.0	14.2	1.3
30	---	---	---	---	---	---	30.1	10.1	24.0	7.5	14.1	-0.7
31	---	---	---	---	---	---	28.4	9.3	25.1	8.3	---	---
MONTH	---	---	---	---	---	---	---	---	31.6	2.7	28.1	-0.7

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1978 to September 1980, June 1983, December 2000 to September 2001.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1993 to September 1994.

REMARKS.--In December 2000, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor nutrient and sediment outflow from Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0°C, July 24, 27, August 2, 1993; minimum, freezing point on several days in February, 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
DEC									
31...	1200	102	608	10.0	102	90	8.0	6.5	.004
MAR									
05...	1025	53	607	10.2	100	92	7.5	5.0	<.003
JUN									
06...	1220	71	609	8.8	113	91	--	16.5	.003
SEP									
19...	1120	100	610	8.2	107	94	18.5	17.0	.004

Date	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC							
31...	.05	.003	.009	<.001	51	<1	<.28
MAR							
05...	.08	.003	.008	.001	17	<1	<.14
JUN							
06...	.11	.002	.011	.001	69	2	.38
SEP							
19...	.07	.002	.005	.001	31	4	1.1

Remark Codes Used in This report:
< -- Less than

PYRAMID AND WINNEMUCCA LAKES BASIN

10338000 TRUCKEE RIVER NEAR TRUCKEE, CA

LOCATION.--Lat 39°17'17", long 120°12'16", in SW $^1/_4$ NE $^1/_4$ sec.28, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 1.4 mi downstream from Cabin Creek, 2.5 mi southwest of Truckee, and at mi 103.62 upstream from Marble Bluff Dam.

DRAINAGE AREA.--553 mi^2.

PERIOD OF RECORD.--December 1944 to September 1961, June 1977 to September 1982, October 1992 to September 1995, October 1996 to current year. Monthly discharge only for some periods, published in WSP 1314.
SPECIFIC CONDUCTANCE: July 1977 to September 1982.
WATER TEMPERATURE: July 1977 to September 1982, March 1993 to September 1994.

REVISED RECORDS.--WDR CA-77-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,857.66 ft above NGVD of 1929.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), operating capacity, 744,600 acre-feet. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,900 ft^3/s, January 2, 1997, gage height, 9.97 ft, from rating curve extended above 3,100 ft^3/s on basis of slope-area measurements at gage heights 7.62 ft and 7.92 ft; minimum daily, 3.4 ft^3/s, several days in August 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	207	188	e129	100	133	235	222	393	254	310	239
2	294	202	e168	e129	100	123	264	220	327	345	311	236
3	291	197	133	e131	99	119	313	251	299	352	309	223
4	290	189	140	e131	98	118	354	291	312	351	308	208
5	290	188	173	e131	98	119	e368	328	336	361	304	191
6	290	181	175	e130	182	180	344	356	329	360	303	181
7	290	175	173	e114	153	168	333	369	311	368	298	172
8	290	167	113	e107	153	140	345	348	278	380	299	162
9	277	164	80	e101	151	128	359	329	234	376	305	157
10	220	160	e90	e98	157	124	350	308	208	378	305	154
11	219	166	e115	e95	172	118	362	280	204	390	305	150
12	216	166	121	e95	174	125	389	294	210	390	305	144
13	233	169	121	e94	176	122	394	332	222	389	304	143
14	236	159	126	e95	178	116	498	362	219	390	309	137
15	236	159	124	108	178	112	482	383	200	391	314	133
16	235	152	125	e106	170	112	338	384	188	391	313	126
17	238	144	139	95	166	108	286	418	183	390	312	114
18	236	137	137	94	153	102	248	444	192	393	310	114
19	232	136	135	92	162	100	223	396	184	391	308	105
20	232	124	152	91	189	104	210	336	190	389	307	99
21	232	139	152	85	141	109	208	279	201	385	318	97
22	239	e159	157	86	142	120	213	247	210	384	312	94
23	245	e161	160	87	e144	130	227	233	237	385	310	93
24	241	e175	162	87	137	119	249	237	235	389	300	92
25	240	e196	173	84	134	116	289	263	292	391	289	86
26	233	e188	177	80	134	118	320	292	320	400	283	84
27	226	e184	177	88	136	127	287	320	313	397	273	79
28	216	e178	180	90	135	142	252	348	304	395	261	73
29	207	194	129	88	---	168	262	376	298	394	258	68
30	215	e190	e128	96	---	192	247	405	292	393	250	62
31	216	---	e128	109	---	210	---	417	---	361	244	---
TOTAL	7667	5106	4451	3146	4112	4022	9249	10068	7721	11703	9237	4016
MEAN	247.3	170.2	143.6	101.5	146.9	129.7	308.3	324.8	257.4	377.5	298.0	133.9
MAX	312	207	188	131	189	210	498	444	393	400	318	239
MIN	207	124	80	80	98	100	208	220	183	254	244	62
AC-FT	15210	10130	8830	6240	8160	7980	18350	19970	15310	23210	18320	7970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	200.6	206.2	287.5	336.9	366.6	345.1	406.3	562.7	486.4	308.1	288.4	258.3
MAX	387	551	1483	3190	2537	1421	1734	2403	1843	635	492	453
(WY)	1948	1951	1997	1997	1997	1952	1958	1958	1998	1998	1959	1954
MIN	7.27	11.3	14.2	8.82	12.2	58.1	98.3	122	34.5	6.40	3.56	4.72
(WY)	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1945 - 2002	
ANNUAL TOTAL	103416		80498			
ANNUAL MEAN	283.3		220.5		342.5	
HIGHEST ANNUAL MEAN					941	1997
LOWEST ANNUAL MEAN					32.4	1994
HIGHEST DAILY MEAN	444	Aug 18	498	Apr 14	8900	Jan 1 1997
LOWEST DAILY MEAN	80	Dec 9	62	Sep 30	3.4	Aug 18 1994
ANNUAL SEVEN-DAY MINIMUM	109	Dec 8	78	Sep 24	3.4	Aug 22 1994
MAXIMUM PEAK FLOW			690	Apr 14	11900	Jan 2 1997
MAXIMUM PEAK STAGE			2.58	Apr 14	9.97	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	205100		159700		248100	
10 PERCENT EXCEEDS	408		372		569	
50 PERCENT EXCEEDS	288		204		249	
90 PERCENT EXCEEDS	160		100		54	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10338400 DONNER LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'30", long 120°16'53", in SE $^1/_4$ NW $^1/_4$ sec.14, T.17 N., R.15 E., Nevada County, Hydrologic Unit 16050102, on north shore, 2.5 mi upstream from outlet gates, and 4.9 mi west of Truckee.

DRAINAGE AREA.--14.0 mi^2.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--January 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Westpac Utilities).

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1928. Usable capacity, 9,490 acre-ft between elevations 5,923.8 and 5,935.8 ft, maximum storage level. Water is used for irrigation and power development downstream. Records, including extremes, represent usable contents. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,800 acre-ft, January 2 1997, elevation, 5,938.64 ft; minimum, 2,510 acre-ft, January 24, 28-31, 1991, elevation, 5,927.23 ft.

EXTREMES FOR CURRENT YEAR.—Maximum contents, 9,620 acre-ft, May 30 and 31, maximumelevation, 5,935.95 ft; minimum, May 30, minimum 3,080 acre-ft, November 20, elevation, 5,928.02 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Westpac Utilities, dated Aug. 22, 1980)

5,923.8	0	5,930.0	4,690	5,934	7,970	5,938	12,000
5,926.0	1,600	5,932	6,310	5,936	9,670	5,940	14,700
5,928.0	3,120						

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

AY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4820	3210	3530	3520	3550	3790	4080	4970	9540	9360	8940	8390
2	4710	3210	3720	3590	3530	3770	4190	5000	9460	9340	8940	8360
3	4610	3210	3720	3650	3510	3770	4350	5090	9460	9340	8940	8340
4	4510	3200	3650	3660	3500	3760	4490	5210	9470	9310	8870	8320
5	4410	3180	3650	3680	3510	3770	4610	5380	9510	9310	8870	8280
6	4320	3180	3620	3790	3460	3970	4630	5530	9540	9340	8870	8250
7	4220	3170	3590	3860	3510	4020	4660	5750	9550	9330	8840	8220
8	4140	3140	3550	3880	3520	3990	4770	5920	9550	9310	8820	8220
9	4050	3140	3530	3870	3510	3950	4760	6130	9540	9290	8810	8200
10	3970	3140	3500	3870	3500	3970	4800	6280	9510	9280	8790	8180
11	3890	3170	3480	3870	3490	3950	4870	6440	9490	9270	8810	8140
12	3830	3180	3450	3830	3480	3950	4900	6630	9480	9270	8770	8080
13	3760	3190	3450	3830	3490	3950	5000	6850	9470	9260	8770	7960
14	3700	3180	3490	3800	3490	3920	5150	7040	9460	9230	8730	7810
15	3650	3190	3470	3780	3500	3890	5160	7260	9430	9220	8700	7680
16	3590	3180	3450	3770	3490	3860	5120	7500	9400	9210	8660	7530
17	3540	3160	3510	3750	3510	3860	5010	7740	9370	9200	8650	7400
18	3490	3140	3480	3720	3500	3820	4880	7990	9350	9190	8660	7260
19	3450	3130	3450	3700	3570	3820	4770	8190	9380	9170	8600	7130
20	3410	3080	3480	3670	3610	3800	4680	8370	9400	9160	8590	6980
21	3380	3310	3470	3670	3680	3820	4580	8490	9400	9150	8560	6800
22	3340	3450	3480	3640	3730	3840	4510	8610	9390	9110	8540	6640
23	3300	3450	3460	3620	3770	3870	4480	8700	9390	9100	8530	6480
24	3280	3620	3450	3610	3780	3870	4510	8810	9380	9070	8500	6330
25	3260	3620	3440	3560	3770	3860	4590	8940	9380	9050	8490	6170
26	3240	3570	3410	3670	3800	3860	4690	9100	9370	9040	8480	6000
27	3210	3540	3410	3640	3780	3850	4770	9270	9370	9030	8480	5920
28	3190	3520	3420	3630	3760	3860	4800	9440	9370	9020	8450	5780
29	3180	3520	3450	3590	---	3890	4900	9550	9360	9000	8440	5690
30	3240	3490	3480	e3580	---	3950	4930	9620	9360	8990	8420	5690
31	3230	---	3530	e3560	---	4030	---	9620	---	8970	8410	---
MAX	4820	3620	3720	3880	3800	4030	5160	9620	9550	9360	8940	8390
MIN	3180	3080	3410	3520	3460	3760	4080	4970	9350	8970	8410	5690
a	5928.15	5928.50	5928.55		5928.83	5929.18	5930.31	5935.94	5935.65	5935.19	5934.53	5931.25
b	-1700	+260	+40	+30	+200	+270	+900	+4690	-260	-390	-560	-2720

CAL YR 2001 MAX 9500 MIN 3060 b +440
WTR YR 2002 MAX 9620 MIN 3080 b +760

e Estimated
a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PERIOD OF RECORD.—October 2001 to September 2002.
INSTRUMENTATION.—Heated tipping-bucket gage.
EXTREMES FOR PERIOD OF RECORD.—Maximum daily precipitation, 2.50 in., Dec. 2, 2001; no precipitation for many days.

PRECIPITATION, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.78	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	---	0.00	2.50	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	---	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
5	---	0.00	0.08	0.54	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
6	---	0.00	0.00	0.47	0.00	2.23	0.00	0.00	0.00	0.00	0.00	0.08
7	---	0.00	0.00	0.00	0.66	0.54	0.00	0.00	0.00	0.00	0.00	0.00
8	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	---	0.00	0.04	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
10	---	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00
11	---	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	---	0.78	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.24	0.00	0.20	0.15	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.11	0.08	0.31	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	1.09	0.04	0.16	0.04	0.11	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.04	0.00	0.00
19	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.15	0.00	0.00	0.00	0.00
20	0.00	0.00	0.50	0.00	0.12	0.00	0.00	0.32	0.00	0.00	0.00	0.00
21	0.00	2.42	0.04	0.27	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
22	0.00	1.29	0.43	0.00	0.00	0.35	0.00	0.04	0.00	0.00	0.00	0.00
23	0.00	0.03	0.00	0.00	0.04	0.35	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	1.96	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.04	1.56	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.04	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
28	0.00	0.43	0.51	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.35	0.11	0.00	---	0.00	0.39	0.00	0.00	0.00	0.00	0.00
30	1.60	0.04	0.67	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.15	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	8.03	8.19	4.05	2.34	4.64	1.29	0.58	0.00	0.04	0.00	0.08

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'25", long 120°14'00", in SW $^1/_4$ NW $^1/_4$ sec.17, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, in Donner Memorial State Park, on left bank, 10 ft downstream from bridge on Donner Memorial State Park road, 0.2 mi downstream from outlet of Donner Lake, 0.7 mi upstream from Cold Creek, and 2.5 mi west of Truckee.

DRAINAGE AREA.--14.3 mi^2.

PERIOD OF RECORD.--November 1909 to August 1910, January 1929 to October 1935, January 1936 to March 1938, July to October 1938, January 1939 to February 1943, June 1943 to December 1953, May 1955 to December 1957, October 1958 to current year. Monthly discharge only prior to October 1958, published in WSP 1314 and 1734.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control, completed October 3, 1989. Datum of gage is 5,924.40 ft above NGVD of 1929. November 1, 1909, to August 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records good. Flow completely regulated at dam at outlet of Donner Lake (station 10338400) since 1928. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 863 ft^3/s, January 2, 1997, gage height, 6.69 ft; no flow at times in many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	7.5	20	20	e21	33	54	44	107	2.5	1.5	2.8
2	57	7.5	26	22	20	33	59	44	90	2.6	1.7	2.6
3	54	7.2	31	24	19	32	67	44	50	2.2	1.8	2.6
4	52	6.4	28	24	19	31	79	46	39	2.0	1.2	3.0
5	50	6.1	25	24	18	31	93	46	34	2.0	1.1	3.2
6	48	6.1	24	30	17	38	99	50	30	1.7	1.6	2.9
7	45	5.8	24	35	17	47	100	31	30	1.4	1.8	2.9
8	44	4.8	22	36	19	49	105	12	28	2.0	2.0	2.8
9	40	4.5	20	36	19	47	110	8.0	26	2.8	2.2	2.8
10	37	4.3	19	36	19	45	114	6.0	26	2.4	2.2	4.7
11	35	4.8	19	36	17	44	120	2.4	26	2.3	e2.1	12
12	32	5.5	18	35	17	44	124	1.5	26	3.1	e2.1	29
13	31	5.7	17	33	17	44	128	0.97	26	2.8	2.0	55
14	29	5.1	18	33	17	42	136	4.1	26	2.7	1.8	66
15	26	5.1	17	31	17	41	151	3.7	26	2.6	1.9	66
16	25	4.6	17	29	17	39	146	1.3	26	2.5	1.9	66
17	23	4.2	18	29	18	39	139	0.99	25	2.9	e1.9	66
18	21	3.9	18	28	18	36	129	0.79	16	2.9	e1.9	64
19	19	3.8	17	26	19	34	120	0.81	5.7	2.7	e1.9	64
20	18	3.8	17	25	23	33	111	2.4	1.8	2.7	e2.0	71
21	15	5.2	17	24	25	33	102	1.8	4.1	2.7	1.7	84
22	14	16	17	24	28	34	97	1.4	6.0	2.4	2.0	83
23	13	16	17	24	31	39	92	1.2	5.9	2.3	2.2	80
24	11	20	17	22	32	39	91	2.7	5.6	1.6	2.0	79
25	10	24	16	22	32	39	92	2.5	5.6	2.3	2.0	76
26	9.4	22	16	23	32	39	73	2.1	3.8	2.6	2.2	74
27	8.7	21	15	26	32	37	46	1.6	1.6	1.5	3.0	60
28	7.8	19	15	25	32	38	46	1.5	1.5	1.4	3.6	48
29	7.0	19	16	e24	---	39	46	22	1.2	1.5	3.6	47
30	7.4	19	16	e23	---	43	45	64	1.1	2.1	3.2	38
31	7.8	---	19	e22	---	49	---	88	---	2.4	2.8	---
TOTAL	854.1	287.9	596	851	612	1211	2914	538.76	700.9	71.6	64.9	1258.3
MEAN	27.55	9.597	19.23	27.45	21.86	39.06	97.13	17.38	23.36	2.310	2.094	41.94
MAX	57	24	31	36	32	49	151	88	107	3.1	3.6	84
MIN	7.0	3.8	15	20	17	31	45	0.79	1.1	1.4	1.1	2.6
AC-FT	1690	571	1180	1690	1210	2400	5780	1070	1390	142	129	2500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

MEAN	29.87	27.04	30.36	32.98	32.69	37.38	53.27	84.83	46.35	12.13	7.792	25.47
MAX	85.7	195	214	284	198	182	144	243	244	67.2	52.7	99.1
(WY)	1973	1951	1951	1997	1986	1986	1940	1952	1983	1934	1932	1983
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1930	1930	1930	1929	1929	1929	1929	1929	1929	1937	1936	1930

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	4741.2		9960.46			
ANNUAL MEAN	12.99		27.29		35.86	
HIGHEST ANNUAL MEAN					83.3	1982
LOWEST ANNUAL MEAN					7.71	1977
HIGHEST DAILY MEAN	77	Sep 21	151	Apr 15	820	Jan 2 1997
LOWEST DAILY MEAN	1.0	Jun 11	0.79	May 18	0.00	Jan 1 1929
ANNUAL SEVEN-DAY MINIMUM	2.0	Jul 22	1.3	May 17	0.00	Jan 1 1929
MAXIMUM PEAK FLOW			153	Apr 15	863	Jan 2 1997
MAXIMUM PEAK STAGE			4.03	Apr 15	6.69	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	9400		19760		25980	
10 PERCENT EXCEEDS	39		66		99	
50 PERCENT EXCEEDS	5.4		19		15	
90 PERCENT EXCEEDS	2.7		2.0		0.10	

e Estimated

10338700 DONNER CREEK AT HIGHWAY 89, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'16", long 120°12'25", in NE $^1/_4$ SW $^1/_4$ sec.16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on right bank, 50 ft upstream from State Highway 89 bridge, 0.5 mi upstream from mouth, and 1.4 mi southwest of Truckee.

DRAINAGE AREA.--29.1 mi^2.

PERIOD OF RECORD.--March 1993 to current year.
WATER TEMPERATURE: August 1993 to September 1994.

GAGE.--Water-stage recorder. Elevation of gage is 5,870 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. About half the drainage area is regulated at dam at outlet of Donner Lake (station 10338400) 2.0 mi upstream. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, about 2,500 ft^3/s, January 2, 1997, gage height, 12.76 ft, backwater from debris, on the basis of the flood routing the peak discharge between Truckee River near Truckee and Truckee River above Prosser Creek; minimum daily, 2.3 ft^3/s, August 21, 22, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	8.6	23	31	28	56	113	96	229	20	4.1	4.3
2	50	8.2	32	34	26	54	128	97	184	19	4.1	4.1
3	48	7.9	35	38	26	52	152	111	143	17	4.1	4.0
4	46	7.2	32	35	25	52	189	130	135	15	3.6	4.3
5	44	7.1	30	35	25	52	197	144	139	14	3.4	4.5
6	41	6.7	29	62	24	74	187	157	136	13	3.7	4.4
7	39	6.2	28	64	25	81	186	148	128	12	3.9	4.4
8	37	5.7	26	60	27	77	200	120	109	12	e4.2	4.3
9	35	5.6	24	56	25	72	213	110	91	12	4.7	4.2
10	33	5.3	23	52	25	70	222	99	82	11	4.7	5.7
11	31	6.6	22	51	25	69	232	91	81	10	4.7	13
12	29	7.3	21	49	25	73	244	101	84	11	4.5	27
13	27	6.9	20	47	25	70	249	113	88	9.6	4.4	51
14	26	6.3	e21	46	25	66	310	127	83	9.1	4.1	63
15	24	6.1	20	44	25	63	307	136	74	8.5	4.2	62
16	22	5.9	20	41	26	61	238	132	69	8.1	4.2	61
17	21	5.6	22	40	26	59	214	145	68	8.0	3.8	62
18	19	5.3	21	38	26	56	193	152	62	8.2	4.0	60
19	18	5.2	20	36	31	54	176	128	49	7.7	4.1	60
20	16	5.2	20	35	47	54	163	106	43	7.2	4.5	66
21	15	10	20	34	50	56	154	83	41	6.6	3.9	78
22	14	37	20	34	53	60	149	74	39	6.1	4.0	79
23	12	21	20	32	59	65	151	71	37	5.8	4.2	75
24	11	42	19	31	56	64	158	78	35	5.1	4.0	72
25	10	35	18	31	55	63	175	90	33	5.4	3.9	70
26	9.5	29	18	31	56	62	158	99	32	5.7	4.0	68
27	9.0	25	19	e32	57	63	118	110	27	4.7	4.6	55
28	8.2	23	20	32	57	66	107	124	24	4.3	5.2	43
29	7.4	24	21	31	---	75	107	151	22	4.0	5.1	43
30	9.1	23	23	29	---	84	100	202	21	4.7	4.8	36
31	9.5	---	33	29	---	97	---	214	---	5.1	4.4	---
TOTAL	771.7	397.9	720	1240	980	2020	5490	3739	2388	289.9	131.1	1188.2
MEAN	24.89	13.26	23.23	40.00	35.00	65.16	183.0	120.6	79.60	9.352	4.229	39.61
MAX	51	42	35	64	59	97	310	214	229	20	5.2	79
MIN	7.4	5.2	18	29	24	52	100	71	21	4.0	3.4	4.0
AC-FT	1530	789	1430	2460	1940	4010	10890	7420	4740	575	260	2360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	33.30	22.60	42.58	86.95	73.61	103.7	148.7	230.8	157.8	48.29	10.65	41.62
MAX	49.0	45.5	201	438	200	251	220	379	398	180	38.1	60.2
(WY)	2000	1999	1997	1997	1996	1995	1993	1995	1995	1995	1995	1993
MIN	15.8	8.35	9.73	8.37	11.6	30.9	39.8	64.8	12.4	4.48	3.24	11.6
(WY)	1995	1994	2000	2001	1994	1994	1994	1994	2001	2001	1994	2000

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	9437.5		19355.8			
ANNUAL MEAN	25.86		53.03		80.56	
HIGHEST ANNUAL MEAN					142	1995
LOWEST ANNUAL MEAN					25.9	1994
HIGHEST DAILY MEAN	121	May 16	310	Apr 14	2380	Jan 2 1997
LOWEST DAILY MEAN	2.8	Aug 22	3.4	Aug 5	2.3	Aug 21 1994
ANNUAL SEVEN-DAY MINIMUM	2.9	Aug 28	3.8	Aug 1	2.5	Aug 19 1994
MAXIMUM PEAK FLOW			412	Apr 14	2500	Jan 2 1997
MAXIMUM PEAK STAGE			5.63	Apr 14	12.76	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	18720		38390		58360	
10 PERCENT EXCEEDS	67		137		203	
50 PERCENT EXCEEDS	15		32		42	
90 PERCENT EXCEEDS	4.1		4.7		7.2	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE $^1/_4$ NW $^1/_4$ sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.2 mi downstream from Martis Creek Lake Dam, 1.8 mi upstream from mouth, and 3.5 mi east of Truckee.

DRAINAGE AREA.--39.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to November 1990, June 1993 to current year.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,730 ft above NGVD of 1929, from topographic map. Prior to July 10, 1972, at site 1.0 mi downstream at different datum.

REMARKS.--Records good. Flow is completely regulated by Martis Creek Lake (station 10339380) since October 7, 1971. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,880 ft^3/s, February 1, 1963, gage height, 6.16 ft, site and datum then in use; minimum, 1.3 ft^3/s, July 30, 1961. Maximum discharge since construction of Martis Creek Lake Dam in 1971, 663 ft^3/s, February 28, 1986, gage height, 5.66 ft; maximum gage height, 6.01 ft, April 2, 1974; minimum daily, 0.20 ft^3/s, November 9–14, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	7.3	9.2	17	8.9	26	49	e26	9.3	4.2	3.1	3.6
2	4.8	6.7	e21	18	8.4	21	54	23	8.9	4.1	3.3	3.5
3	4.8	6.5	22	30	8.0	20	60	23	9.0	4.0	3.1	3.5
4	4.9	6.1	18	22	8.1	22	63	22	8.9	3.8	3.1	3.1
5	5.1	6.0	14	17	8.4	23	64	23	8.0	3.8	2.9	3.0
6	5.4	6.2	12	25	8.1	49	64	22	7.5	3.8	2.9	3.1
7	5.6	6.1	12	33	8.7	61	63	22	7.3	3.7	3.0	3.1
8	5.8	6.1	11	30	10	39	63	21	6.6	3.6	3.2	3.3
9	5.7	6.1	11	23	9.5	32	62	20	6.5	3.6	3.3	3.4
10	5.0	6.3	10	19	9.2	30	55	19	7.2	3.5	3.3	3.5
11	5.2	8.1	9.9	16	9.1	29	51	19	7.1	3.5	3.3	3.5
12	5.1	9.3	9.6	15	9.2	39	52	17	6.6	3.6	2.6	3.5
13	5.0	9.8	9.6	13	9.6	39	50	17	6.5	3.7	2.5	3.5
14	5.0	8.4	9.9	12	9.9	32	50	17	6.0	3.7	4.1	3.5
15	5.0	7.4	9.2	11	11	27	55	17	5.4	3.5	4.4	3.4
16	5.2	6.9	9.1	9.8	12	24	44	16	5.2	3.3	3.9	3.3
17	5.2	6.4	9.7	9.8	14	23	40	15	5.0	3.1	3.8	3.4
18	5.1	6.0	9.5	9.5	12	21	37	15	5.0	3.5	3.6	2.8
19	5.5	5.8	9.3	9.4	13	22	34	14	5.0	3.9	3.6	3.7
20	5.3	6.0	9.5	9.2	28	24	32	15	5.0	3.9	3.3	3.6
21	5.3	7.2	9.4	9.5	34	26	29	15	5.0	3.8	3.3	3.5
22	5.2	19	9.4	9.5	36	30	28	14	4.8	3.7	3.3	3.5
23	5.3	14	9.4	8.8	50	38	26	14	4.9	3.5	3.4	3.4
24	5.1	28	8.2	8.7	38	35	26	13	4.7	3.4	3.5	3.4
25	e5.2	26	8.3	8.9	33	30	26	12	4.7	3.2	3.5	3.3
26	e5.2	13	9.1	9.3	31	29	28	11	4.7	3.1	3.5	3.3
27	5.3	9.6	9.1	9.7	31	31	27	10	4.7	3.1	3.5	3.4
28	5.5	9.2	9.7	9.1	29	34	24	10	4.6	3.0	3.6	3.5
29	5.4	9.6	11	9.0	---	39	e32	10	4.4	3.0	3.5	3.7
30	6.5	8.8	12	8.6	---	43	e30	9.6	4.3	3.0	3.6	3.9
31	8.6	---	17	8.5	---	46	---	9.4	---	3.0	3.6	---
TOTAL	166.2	281.9	348.1	448.3	497.1	984	1318	511.0	182.8	109.6	104.6	102.2
MEAN	5.361	9.397	11.23	14.46	17.75	31.74	43.93	16.48	6.093	3.535	3.374	3.407
MAX	8.6	28	22	33	50	61	64	26	9.3	4.2	4.4	3.9
MIN	4.8	5.8	8.2	8.5	8.0	20	24	9.4	4.3	3.0	2.5	2.8
AC-FT	330	559	690	889	986	1950	2610	1010	363	217	207	203

e Estimated

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1971, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	8.05	12.0	18.5	30.6	28.0	36.5	60.2	59.5	22.6	6.40	4.90	5.51
MAX	16.4	18.0	86.5	116	83.4	78.8	148	202	96.6	18.0	10.8	10.1
(WY)	1963	1971	1965	1970	1963	1967	1969	1967	1967	1967	1967	1967
MIN	3.73	4.81	5.38	4.28	9.60	11.1	15.4	9.80	3.21	1.79	1.81	2.37
(WY)	1962	1962	1962	1962	1964	1961	1961	1961	1960	1961	1964	1960

SUMMARY STATISTICS	WATER YEARS 1959 - 1971	
ANNUAL MEAN	24.4	
HIGHEST ANNUAL MEAN	47.2	1969
LOWEST ANNUAL MEAN	6.89	1961
HIGHEST DAILY MEAN	903	Jan 31 1963
LOWEST DAILY MEAN	1.3	Jul 30 1961
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 29 1961
MAXIMUM PEAK FLOW	1880	Feb 1 1963
MAXIMUM PEAK STAGE	6.16	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	17650	
10 PERCENT EXCEEDS	57	
50 PERCENT EXCEEDS	11	
90 PERCENT EXCEEDS	2.7	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

MEAN	9.110	16.31	20.57	29.60	35.53	46.81	52.31	56.10	34.59	14.20	9.918	8.923
MAX	20.8	80.0	95.5	214	149	181	139	219	169	75.0	76.0	40.2
(WY)	1983	1984	1982	1997	1986	1986	1982	1983	1983	1986	1995	1995
MIN	3.09	1.57	1.25	6.42	8.10	8.35	8.52	7.40	3.96	2.67	2.01	2.40
(WY)	1972	1978	1978	1978	1994	1974	1980	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1972 - 2002	
ANNUAL TOTAL	3315.59		5053.8			
ANNUAL MEAN	9.084		13.85		27.83	
HIGHEST ANNUAL MEAN					74.5	1983
LOWEST ANNUAL MEAN					6.90	1977
HIGHEST DAILY MEAN	30	Mar 22	64	Apr 5	626	Mar 1 1986
LOWEST DAILY MEAN	0.89	Jun 27	2.5	Aug 13	0.20	Nov 9 1977
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 2	3.0	Aug 7	0.21	Nov 9 1977
MAXIMUM PEAK FLOW			70	Mar 6	663	Feb 28 1986
MAXIMUM PEAK STAGE			2.98	Mar 6	6.01	Apr 2 1974
ANNUAL RUNOFF (AC-FT)	6580		10020		20160	
10 PERCENT EXCEEDS	18		32		69	
50 PERCENT EXCEEDS	8.3		8.9		12	
90 PERCENT EXCEEDS	3.9		3.4		4.4	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Water years 1975-95.
WATER TEMPERATURE: Water years 1975 to current year.
SEDIMENT DATA: Water years 1975-95.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1974 to current year.

INSTRUMENTATION.--Digital water-temperature recorder since October 1974.

REMARKS.—Interruption in the record was due to recording equipment damage caused by vandals. Water temperature is affected by regulation from Martis Creek Lake Dam (station 10339380). Unpublished chemical-quality, water-temperature, and sediment data prior to October 1974, available at the U.S. Geological Survey office in Carson City, NV

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 25.5°C, July 11, 12, 1993; minimum recorded, 0.0°C, February 16, 17, 1982, January 11-13, 16, 1995.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 22.0°C, July 10, 11, 14–16; minimum recorded, 1.5°C, January 30.

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DEPTH BOTTOM AT SAMPLE LOC-ATION, (FEET) (81903)	SAM-PLING DEPTH (FEET) (00003)	TEMPER-ATURE WATER (DEG C) (00010)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)
NOV					
01...*	1445	--	.30	10.5	2.00
01...*	1446	--	.30	10.5	5.00
01...*	1447	--	.30	10.5	9.00
01...*	1448	--	.30	10.5	11.0
01...*	1449	--	.30	10.5	14.0
MAR					
01...*	1045	--	.30	3.8	2.00
01...*	1046	--	.30	3.8	6.00
01...*	1047	--	.30	3.8	10.0
01...*	1048	--	.30	3.9	14.0
01...*	1049	--	.30	3.9	18.0
AUG					
01...*	1440	1.00	.30	23.6	2.00
01...*	1442	1.30	.30	22.5	4.00
01...*	1446	1.20	.30	23.0	6.00
01...*	1448	1.35	.30	23.0	8.00
01...*	1450	.92	.30	22.5	10.0
01...*	1452	.67	.30	22.5	12.0
01...*	1454	.80	.30	22.5	14.0
01...*	1456	.82	.30	23.0	16.0
01...*	1458	.80	.30	23.0	18.0
01...*	1500	.72	.30	23.6	20.0

* Instantaneous discharge at the time of cross-sectional measurements: Nov. 1, 7.4 ft^3/s; Mar.1, 25 ft^3/s; Aug. 1, 3.3 ft^3/s.

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	11.0	10.0	4.0	3.5	3.0	3.0	3.5	2.5	4.0	3.0
2	15.5	13.5	10.5	9.5	3.5	2.0	3.0	2.5	3.5	2.5	4.5	3.5
3	15.5	13.5	10.5	9.0	3.0	2.0	2.5	2.5	3.5	2.0	4.5	3.5
4	15.5	13.5	10.5	9.0	3.0	2.5	3.0	2.0	3.5	2.5	4.5	3.5
5	15.0	13.5	10.5	9.0	3.5	2.5	3.0	2.5	3.5	2.0	5.0	4.0
6	15.0	13.5	10.0	9.0	3.5	3.0	3.0	2.0	3.5	2.5	4.5	4.0
7	14.5	13.0	10.0	8.5	3.5	3.0	2.5	2.0	3.5	2.5	4.0	3.0
8	14.5	13.0	9.5	8.0	4.0	3.0	2.5	2.0	3.5	2.5	3.5	2.5
9	14.0	12.5	9.0	8.0	4.0	3.0	3.0	2.5	3.5	2.5	3.5	2.5
10	13.5	12.0	9.0	8.0	4.0	3.0	3.0	2.5	3.5	2.5	3.5	2.5
11	13.0	12.0	8.5	8.0	4.0	3.0	3.5	2.5	3.5	2.5	3.5	2.5
12	13.0	11.5	9.0	8.0	4.0	3.0	3.5	2.5	3.5	2.5	3.5	3.0
13	13.0	11.5	8.5	8.0	4.0	3.0	3.5	2.5	3.0	2.5	4.0	3.0
14	12.5	11.0	8.5	8.0	3.5	3.0	3.5	2.5	3.5	2.5	4.0	3.5
15	12.0	11.0	8.5	8.0	3.5	3.0	3.5	2.5	3.0	2.5	4.0	3.0
16	12.5	11.0	8.5	7.5	4.0	3.0	4.0	2.5	3.5	2.5	4.0	3.0
17	12.0	11.0	8.5	7.5	3.5	3.0	4.0	2.5	3.0	2.5	4.0	3.0
18	12.0	10.5	8.0	7.5	3.5	3.0	4.0	2.5	3.5	2.5	4.0	3.0
19	11.5	10.5	7.5	7.0	4.0	3.0	3.5	2.5	3.0	2.5	4.0	3.0
20	11.5	10.5	7.5	7.0	3.5	3.0	3.5	2.5	3.0	2.5	4.0	3.0
21	11.5	10.5	7.0	6.5	3.5	3.0	3.5	2.0	3.0	2.5	4.5	3.5
22	11.5	10.5	7.0	6.5	3.5	3.0	3.5	2.0	3.0	2.5	5.0	3.5
23	11.5	10.5	6.5	6.5	3.5	3.0	3.5	2.0	3.0	2.5	5.0	4.0
24	11.0	10.0	6.5	5.0	3.5	3.0	3.5	2.0	3.0	2.5	5.0	4.0
25	---	---	5.0	4.5	3.5	3.0	3.5	2.5	3.0	2.5	5.5	4.5
26	---	---	5.0	4.0	3.5	3.0	3.0	2.0	3.5	2.5	5.5	4.5
27	11.5	10.0	4.5	4.0	3.5	3.0	3.5	2.0	3.5	2.5	5.5	4.5
28	11.5	10.0	4.5	3.5	3.5	3.0	3.0	2.0	4.0	3.0	6.0	4.5
29	11.5	10.0	4.5	3.5	3.5	3.0	3.5	2.0	---	---	5.5	4.5
30	11.0	10.0	4.0	3.5	3.5	3.0	3.5	1.5	---	---	6.5	5.5
31	11.5	10.0	---	---	---	---	3.5	2.0	---	---	9.0	5.5
MONTH	---	---	11.0	3.5	---	---	4.0	1.5	4.0	2.0	9.0	2.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	18.5	16.5	21.5	18.0	21.0	18.0	18.0	15.5
2	---	---	10.5	9.0	19.0	16.0	21.5	18.0	21.0	18.0	17.5	15.5
3	---	---	12.5	9.5	19.0	16.0	21.5	18.0	21.0	18.0	20.0	15.5
4	---	---	12.5	10.5	19.5	16.5	21.5	18.0	21.0	18.0	19.5	15.5
5	---	---	14.0	11.0	20.0	16.5	21.5	18.0	20.5	18.0	19.5	15.0
6	---	---	14.0	11.5	20.5	16.5	21.5	18.0	20.0	16.5	19.0	14.5
7	---	---	14.0	12.0	20.0	17.0	21.5	18.0	20.0	16.5	18.5	13.5
8	---	---	14.0	12.0	20.0	16.5	21.5	18.0	20.0	16.0	18.0	---
9	---	---	14.5	12.0	19.0	16.5	21.5	18.0	20.0	16.0	18.0	13.5
10	---	---	13.5	12.5	18.5	16.0	22.0	18.0	20.0	16.5	18.0	13.5
11	---	---	13.5	12.0	19.0	15.5	22.0	18.5	20.0	16.5	18.0	13.5
12	---	---	14.5	11.5	19.0	15.5	21.0	19.0	20.5	16.5	18.0	13.5
13	---	---	15.5	12.5	19.5	16.0	21.5	18.5	21.0	16.0	18.0	14.0
14	---	---	15.5	13.0	20.0	16.0	22.0	18.5	20.0	16.5	17.5	14.0
15	---	---	15.5	13.0	20.0	16.0	22.0	18.5	20.0	17.0	18.0	14.5
16	---	---	16.0	13.5	20.0	16.5	22.0	18.5	20.0	17.0	18.0	14.0
17	---	---	17.0	14.0	20.0	16.5	21.0	18.5	19.5	16.5	17.5	14.0
18	---	---	17.5	14.5	20.5	17.0	20.0	18.5	19.5	16.0	18.5	13.5
19	---	---	17.0	14.5	20.5	17.0	21.0	18.5	19.5	16.0	17.0	13.5
20	---	---	15.0	13.5	20.5	17.5	21.0	18.0	19.0	16.0	17.0	13.5
21	---	---	14.5	13.0	20.5	17.5	21.0	18.5	19.0	16.0	17.0	13.5
22	---	---	14.5	12.5	20.5	17.5	21.0	18.0	18.5	16.0	17.0	13.5
23	---	---	14.5	12.5	21.0	17.5	21.0	18.0	18.5	15.5	17.0	13.5
24	---	---	15.0	12.5	21.0	17.5	21.0	18.0	18.0	15.5	17.0	13.5
25	---	---	16.0	13.0	21.0	17.5	21.0	17.5	18.0	15.5	16.5	13.0
26	---	---	16.5	13.5	21.0	18.0	20.5	17.5	18.0	15.5	16.5	13.0
27	---	---	17.0	14.0	21.0	17.5	21.0	17.5	18.0	15.5	16.5	13.5
28	---	---	17.5	14.5	21.0	18.0	21.0	17.5	18.0	15.5	16.0	13.5
29	---	---	18.0	15.0	21.0	18.0	21.0	17.5	18.0	15.5	16.0	13.0
30	---	---	18.5	15.5	21.0	18.0	20.5	18.0	17.5	15.5	15.5	13.0
31	---	---	19.0	16.0	---	---	21.0	18.0	18.0	15.5	---	---
MONTH	---	---	---	---	21.0	15.5	22.0	17.5	21.0	15.5	20.0	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10340300 PROSSER CREEK RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'46", long 120°08'12", in NW $^1/_4$ SW $^1/_4$ sec.30, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house on Prosser Creek Dam on Prosser Creek, 1.4 mi upstream from mouth, and 4.2 mi northeast of Truckee.

DRAINAGE AREA.--50.3 mi^2.

PERIOD OF RECORD.--January 1963 to current year. January 1963 to September 1987 (monthend elevations and contents only). Prior to October 1976, published as "near Boca."

REVISED RECORDS.--WDR CA-76-3: 1975. WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good. Reservoir is formed by rolled-earth and rockfill dam. Storage began January 30, 1963. Usable capacity, 28,641 acre-ft between elevations 5,660.6 ft, top of inactive contents, and 5,741.2 ft, crest of spillway. Inactive contents, 1,201 acre-ft, includes 83 acre-ft dead contents below elevation 5,637.0 ft. Figures given represent total contents at 0800 hours. Reservoir is used for flood control, enhancement of fishery, and recreation. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 33,719 acre-ft, May 19, 1996, elevation, 5,746.11 ft; minimum since reservoir first filled, 66 acre-ft, October 10-12, 1983, elevation, 5,635.75 ft.

EXTREMES (at 0800 hours) FOR CURRENT YEAR.—Maximum contents, 22,600 acre-ft, June 20, 21, maximum elevation, 5,730.55 ft, June 20; minimum, 8,050 acre-ft, December 21, elevation, 5,698.09 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated August 1962)

5,630	17	5,670	2,230	5,700	8,636	5,730	22,220
5,640	143	5,680	3,791	5,710	12,147	5,740	28,949
5,650	491	5,690	5,901	5,720	16,643	5,750	37,046
5,660	1,148						

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8180	8200	e8740	8300	8300	8730	e9930	13900	20000	22400	20100	17400
2	8180	8210	e8790	8360	8300	8700	9910	13900	20200	22400	20000	17200
3	8170	8220	e8820	8440	8310	8680	9910	14000	20400	22400	19900	17100
4	8160	8220	e8860	8490	8310	8640	10000	14100	20500	22400	19800	16900
5	8150	8230	8870	8550	8310	8560	10200	14400	20700	22300	19700	16800
6	8140	8240	8890	8630	8320	8500	10400	14600	20900	22300	e19600	16600
7	8120	8230	8910	8830	8320	8560	10400	14900	21100	22200	19500	16500
8	8120	8230	8920	8990	8340	8550	10500	e15200	21300	22200	19500	16400
9	8110	8240	8940	9100	8350	8480	10500	15400	21400	22100	19400	16200
10	8100	8230	8950	9180	8360	8430	10700	15600	21400	22000	19300	16100
11	8100	8260	8850	9180	8370	8350	10800	15700	21500	22000	19300	15900
12	8100	8270	8740	9160	8380	8370	11000	e15900	21600	21900	19200	15800
13	8110	8290	8640	9130	8390	8450	11200	16000	21800	21800	19100	15700
14	8110	8310	e8520	9100	8410	8510	11500	16300	22000	21800	19100	15500
15	8110	8320	e8410	9060	8420	8600	11900	16500	22100	21700	19000	15400
16	8110	8330	e8310	9020	8440	8720	12200	16800	22300	21600	18900	15200
17	8110	8310	e8210	8980	8470	8830	12200	17100	22400	21500	18900	15100
18	8110	8280	8180	8920	8480	8930	12200	17400	22400	21400	18800	15000
19	8120	8260	8120	8870	8500	9030	12300	17700	22500	21300	18700	14800
20	8120	8230	8100	8820	8580	9140	12400	18000	22600	21300	18700	14700
21	8120	8210	8050	8770	8710	9260	12500	18200	22600	21200	18600	14500
22	e8130	8330	8060	8730	8710	9390	12600	18200	22500	21100	18500	14400
23	8120	8460	8080	8670	8740	9510	12800	18300	22500	21000	18500	14300
24	8130	8490	8080	8610	8760	9570	13000	18400	22500	20900	18400	14100
25	8130	8650	8080	8550	8760	e9610	13200	18400	22400	20800	18300	13900
26	8140	8680	8090	8500	8750	9640	13400	18600	22400	20700	18100	13800
27	8140	8690	8100	8460	8740	9680	13500	18700	22400	20600	18000	13700
28	8140	8700	8120	8400	8740	9720	13600	18900	22400	20500	17900	13600
29	8150	e8740	8140	8350	---	9760	13700	19100	22400	20400	e17800	13400
30	8150	e8740	8170	8280	---	9850	13800	19400	22400	20300	17600	13300
31	8180	---	8220	8290	---	9880	---	19700	---	20200	17500	---
MEAN	8131	8360	8450	8733	8485	8988	11742	16752	21787	21506	18894	15310
MAX	8180	8740	8950	9180	8760	9880	13800	19700	22600	22400	20100	17400
MIN	8100	8200	8050	8280	8300	8350	9910	13900	20000	20200	17500	13300
a	5698.53		5698.67	5698.89	5700.34	5703.88	5714.04	5725.74	5730.35	5726.64	5721.71	5712.77
b	-20	+560	-520	+70	+450	+1140	+3920	+5900	+2700	-2200	-2700	-4200

CAL YR 2001 MEAN 9892 MAX 12500 MIN 8050 b -1690
WTR YR 2002 MEAN 13119 MAX 22600 MIN 8050 b +5100

e Estimated
a Gage height, in feet, at end of month.
b Change in contents, in acre-feet.

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM, NEAR TRUCKEE, CA

LOCATION.—Lat 39°22'24", long 120°07'50", in NW $^1/_4$ NE $^1/_4$ sec.31, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank, 300 ft downstream from Station Creek, 0.5 mi downstream from Prosser Creek Dam, 0.9 mi upstream from mouth, and 4.2 mi northeast of Truckee.

DRAINAGE AREA.—52.9 mi^2.

PERIOD OF RECORD.—October 1902 to June 1903 (gage heights only), October 1942 to December 1950, June 1951 to current year. Prior to October 1976, published as "near Boca." Monthly discharge only for October 1942 to December 1950 published in WSP 1734; daily discharge in files of U.S. Geological Survey. Records for April 1889 to November 1890, published in the 11th and 12th Annual Reports, Part 2, have been found to be unreliable and should not be used.
WATER TEMPERATURE: Water years 1993–98.

REVISED RECORDS.—WDR CA-79-3: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 5,602.31 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). See WSP 2127 for history of changes prior to September 1956. October 1956 to May 1976, water-stage recorder at site 0.8 mi downstream at datum 29.69 ft lower.

REMARKS.—Records good. Flow regulated by Prosser Creek Reservoir (station 10340300) since January 30, 1963. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Water years 1943–63, prior to construction of Prosser Creek Dam, maximum discharge, 4,560 ft^3/s, December 23, 1955, gage height, 10.13 ft, present datum, from rating curve extended above 910 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft from floodmarks, present datum, November 20, 1950; minimum discharge, 0.4 ft^3/s, July 18, 1961, result of work on dam upstream. Maximum discharge since construction of Prosser Creek Dam in 1963, 2,030 ft^3/s, January 3, 1997, gage height, 6.72 ft, from rating curve extended above 880 ft^3/s on basis of valve setting at Prosser Creek Dam; minimum daily, 0.02 ft^3/s, January 2, 1975, result of temporary closing of Prosser Creek Dam for spillway maintenance.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	4.9	19	20	23	66	173	95	87	54	54	69
2	9.3	4.9	21	21	23	66	197	80	87	55	54	69
3	9.2	4.9	19	21	23	66	197	80	88	55	53	68
4	9.1	5.0	19	20	23	78	198	80	89	54	53	68
5	9.2	6.3	20	21	23	94	198	81	89	54	53	68
6	9.2	7.1	20	21	23	96	198	81	89	54	43	68
7	9.2	7.3	20	21	23	94	199	81	89	54	34	68
8	9.0	7.3	19	21	23	95	199	81	89	54	34	68
9	7.7	7.3	19	20	23	94	183	81	89	54	34	69
10	5.5	7.2	45	38	23	93	170	81	72	55	34	69
11	4.5	7.5	65	51	23	72	171	82	45	55	34	71
12	4.6	7.5	64	50	23	52	171	82	33	54	33	71
13	4.8	7.4	64	50	23	51	172	82	33	54	33	70
14	4.7	7.4	63	49	23	33	172	82	33	54	33	70
15	4.6	7.2	63	50	23	13	172	83	33	53	33	70
16	4.5	14	63	50	23	11	172	83	33	54	33	70
17	4.5	19	50	49	23	11	158	83	51	53	33	69
18	4.6	19	39	49	23	11	125	83	64	54	32	69
19	4.6	19	39	49	23	11	74	84	64	54	32	69
20	4.8	19	39	49	25	11	61	84	81	54	32	69
21	4.9	19	28	49	51	15	61	84	93	54	32	69
22	5.0	20	19	49	67	31	61	84	93	54	32	69
23	5.0	19	19	49	67	47	61	85	93	54	32	69
24	4.8	20	19	49	67	55	72	85	85	54	47	69
25	4.6	19	19	49	67	55	93	85	76	54	58	68
26	4.6	19	19	49	67	55	103	85	71	53	58	68
27	4.5	19	19	48	67	67	104	85	71	53	58	68
28	4.6	19	20	48	66	88	104	86	65	54	57	67
29	4.8	19	20	48	---	98	105	87	55	54	57	67
30	5.0	19	20	35	---	124	104	87	55	54	64	67
31	4.9	---	20	23	---	145	---	87	---	54	69	---
TOTAL	185.7	381.2	992	1216	981	1898	4228	2589	2095	1674	1338	2063
MEAN	5.990	12.71	32.00	39.23	35.04	61.23	140.9	83.52	69.83	54.00	43.16	68.77
MAX	9.4	20	65	51	67	145	199	95	93	55	69	71
MIN	4.5	4.9	19	20	23	11	61	80	33	53	32	67
AC-FT	368	756	1970	2410	1950	3760	8390	5140	4160	3320	2650	4090

10340500 PROSSER CREEK BELOW PROSSER CREEK DAM, NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1962, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	13.1	34.5	47.9	36.1	45.1	75.4	203	261	157	48.5	12.1	8.45
MAX	22.4	268	321	155	89.7	175	406	669	395	176	44.5	19.6
(WY)	1946	1951	1956	1956	1943	1943	1952	1952	1952	1952	1952	1952
MIN	6.63	8.62	9.81	10.0	11.0	20.0	94.5	106	55.9	10.0	3.79	3.90
(WY)	1961	1960	1960	1948	1948	1948	1955	1959	1947	1961	1961	1947

SUMMARY STATISTICS	WATER YEARS 1943 - 1962	
ANNUAL MEAN	76.8	
HIGHEST ANNUAL MEAN	162	1952
LOWEST ANNUAL MEAN	38.1	1961
HIGHEST DAILY MEAN	3490	Dec 23 1955
LOWEST DAILY MEAN	2.7	Aug 24 1961
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 19 1947
MAXIMUM PEAK FLOW	4560	Dec 23 1955
MAXIMUM PEAK STAGE	11.00	Nov 20 1950
ANNUAL RUNOFF (AC-FT)	55620	
10 PERCENT EXCEEDS	212	
50 PERCENT EXCEEDS	27	
90 PERCENT EXCEEDS	7.0	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	90.15	39.14	54.85	76.98	73.33	115.8	123.9	207.7	108.6	59.01	48.99	106.3
MAX	282	214	361	564	397	371	372	545	494	167	151	477
(WY)	1983	1982	1965	1997	1986	1986	1969	1983	1983	1985	1995	1983
MIN	5.41	6.84	5.32	7.96	17.5	27.1	21.7	17.2	8.39	6.33	2.55	1.96
(WY)	1989	1989	1989	1989	1991	1977	1977	1985	1966	1966	1994	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	12391.2		19640.9			
ANNUAL MEAN	33.95		53.81		92.18	
HIGHEST ANNUAL MEAN					214	1983
LOWEST ANNUAL MEAN					24.4	1977
HIGHEST DAILY MEAN	164	Mar 27	199	Apr 7	1790	Feb 21 1986
LOWEST DAILY MEAN	4.5	Oct 11	4.5	Oct 11	0.02	Jan 2 1975
ANNUAL SEVEN-DAY MINIMUM	4.6	Oct 11	4.6	Oct 11	0.30	Apr 13 1977
MAXIMUM PEAK FLOW			204	Apr 6	2030	Jan 3 1997
MAXIMUM PEAK STAGE			3.70	Apr 6	6.72	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	24580		38960		66780	
10 PERCENT EXCEEDS	88		93		209	
50 PERCENT EXCEEDS	23		53		49	
90 PERCENT EXCEEDS	7.5		7.5		9.5	

10342900 INDEPENDENCE LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°27'07", long 120°17'23", in NW $^1/_4$ SW $^1/_4$ sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, on right bank, of outlet channel, 60 ft upstream from outlet gates, and 10.5 mi northwest of Truckee.

DRAINAGE AREA.--7.51 mi^2.

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sierra Pacific Power Co.).

REMARKS.--Lake levels regulated by an earthfill dam at the outlet constructed in 1939. Usable capacity, 17,300 acre-ft between elevations 6,921.0 ft, invert of outlet gate and 6,949.0 ft, normal maximum storage level. Water is used for irrigation and power development downstream. Records, including extremes, represent usable contents. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 18,300 acre-ft, June 5, 2002, elevation, 6,950.38 ft; minimum, 4,750 acre-ft, November 10, 11, 1988, elevation, 6,929.39 ft.

EXTREMES FOR CURRENT YEAR.—Maximum contents, 18,300 acre-ft, June 5, elevation, 6,950.38 ft; minimum, 14,700 acre-ft, November 20, elevation, 6945.29 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Sierra Pacific Power Co., dated November 5, 1941)

6,921	0	6,930	5,110	6,940	11,240	6,950	18,000
6,925	2,220	6,935	8,110	6,945	14,530		

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15400	14900	15200	15700	16100	16300	17000	17000	18100	18200	17900	17500
2	15300	14900	15400	15700	16100	16300	17000	17000	18200	18200	17900	17500
3	15300	14800	15400	15800	16100	16300	17100	17000	18200	18100	17900	17500
4	15200	14800	15400	15800	16100	16300	17200	17000	18200	18100	17800	17400
5	15200	14800	15500	15800	16100	16400	17300	17100	18300	18100	17800	17400
6	15100	14800	15500	15900	16100	16500	17300	17100	18200	18100	17800	17300
7	15100	14800	15500	15900	16100	16600	17300	17100	18200	18000	17800	17300
8	15000	14800	15500	15900	16100	16600	17300	17200	18100	18000	17800	17300
9	15100	14800	15400	15900	16100	16600	17300	17200	18100	18100	17800	17300
10	15100	14800	15400	15900	16100	16600	17300	17200	18000	18100	17800	17300
11	15000	14800	15400	15900	16100	16600	17300	17200	18000	18100	17800	17300
12	15000	14800	15400	15900	16100	16600	17300	17200	18000	18000	17800	17300
13	15000	14800	15500	15900	16100	16700	17300	17300	17900	18000	17700	17200
14	15000	14800	15500	15900	16100	16700	17400	17300	18000	18000	17700	17100
15	15000	14800	15500	15900	16100	16700	17400	17300	18000	18000	17700	17000
16	e15000	14800	15500	15900	16100	16700	17300	17400	18000	18000	17700	17000
17	e15000	14800	15600	15900	16200	16700	17300	17400	18000	18000	17700	16900
18	e15000	14800	15600	15900	16200	16700	17300	17500	18000	18000	17700	16800
19	15000	14800	15600	15900	16200	16700	17300	17500	18000	18000	17600	16700
20	15000	14700	15600	15900	16200	16700	17200	e17400	18100	18000	17600	16600
21	14900	14900	15600	15900	16200	16800	17100	e17400	18100	18000	17600	16600
22	14900	14900	15600	15900	16300	16800	17100	e17400	18100	18000	17600	16400
23	14900	14900	15600	15900	16300	16800	17100	17400	18200	18000	17600	16300
24	14900	15100	15600	15900	16300	16800	17000	17300	18200	18000	17600	16100
25	14900	15100	15600	15900	16300	16900	17100	17300	18200	18000	17500	16000
26	14900	15100	15600	16100	16300	16900	17100	17400	18200	18000	17500	15900
27	14900	15100	15600	16100	16300	16900	17100	17500	18200	18000	17500	15800
28	14800	15100	15700	16100	16300	16900	17000	17500	18200	17900	17500	15700
29	14800	15100	15700	16100	---	16900	17100	17700	18200	17900	17500	15500
30	14900	15100	15700	16100	---	16900	17000	17800	18200	17900	17500	15400
31	14900	---	15700	16100	---	16900	---	18000	---	17900	17500	---
MAX	15400	15100	15700	16100	16300	16900	17400	18000	18300	18200	17900	17500
MIN	14800	14700	15200	15700	16100	16300	17000	17000	17900	17900	17500	15400
a	6945.50	6945.84	6946.70	6947.24	6947.61	6948.47	6948.61	6949.96	6950.27	6949.88	6949.28	6946.26
b	+100	+200	+600	+400	+200	+600	+100	+1000	+200	-300	-400	-2100

CAL YR 2001 MAX 17500 MIN 13400 b +2300
WTR YR 2002 MAX 18300 MIN 14700 b +600

e Estimated
a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10343000 INDEPENDENCE CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°27'24", long 120°17'10", in SW $^1/_4$ NW $^1/_4$ sec.35, T.19 N., R.15 E., Sierra County, Hydrologic Unit 16050102, on left bank, 0.4 mi downstream from Independence Lake outlet, and 10.5 mi northwest of Truckee.

DRAINAGE AREA.--8.10 mi^2.

PERIOD OF RECORD.--November 1902 to September 1907, November 1909 to June 1910, August 1968 to current year.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.- - Water-stage recorder. Elevation of gage is 6,920 ft above NGVD of 1929, from topographic map. July 1, 1904, to June 30, 1910, nonrecording gage 75 ft downstream from Independence Lake outlet; prior to July 1, 1904, nonrecording gage 600 ft downstream at approximately same datum.

REMARKS.--Records good. Flow regulated by Independence Lake (station 10342900) since 1939. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 325 ft^3/s, January 3, 1997, gage height, 6.17 ft; maximum gage height, 8.16 ft, April 16, 1993, backwater from snow and ice; no flow September 28 to November 10, 1905, June 1, 1906.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	4.4	4.0	4.2	4.2	4.2	5.5	41	28	e15	2.9	1.7
2	21	4.4	e4.2	4.2	4.3	4.2	5.6	40	28	e15	2.6	e1.6
3	21	4.4	4.2	4.2	4.3	4.2	13	40	44	e14	2.7	e1.5
4	21	4.4	e4.0	4.2	4.2	4.2	20	41	59	14	2.8	e2.7
5	20	4.4	e4.0	4.4	4.2	4.2	21	42	74	12	2.7	3.5
6	21	4.4	4.0	4.4	4.2	4.3	33	43	83	11	2.7	3.4
7	21	4.2	4.0	4.4	4.3	4.3	43	45	81	10	2.6	3.3
8	12	4.2	4.1	4.4	4.2	4.2	44	46	78	7.3	2.1	3.2
9	3.5	4.2	4.2	4.4	4.2	4.2	51	47	74	4.2	2.2	3.1
10	3.2	4.2	4.2	4.4	4.4	4.3	58	48	69	3.5	2.2	5.0
11	3.1	4.2	4.2	4.4	4.4	4.3	61	47	66	3.3	2.1	8.6
12	3.1	4.3	4.2	4.4	4.4	4.4	61	47	63	3.2	2.2	17
13	3.1	4.2	4.2	4.4	4.4	4.4	62	48	49	3.3	2.5	31
14	3.1	4.2	4.3	4.4	4.4	4.4	67	50	34	3.1	2.6	40
15	3.1	4.2	4.2	4.4	4.4	4.4	77	54	34	3.0	2.7	39
16	3.1	4.1	4.2	4.3	4.4	4.4	74	58	34	3.1	2.5	39
17	3.0	4.0	4.2	4.3	4.4	4.4	71	62	33	3.1	2.7	39
18	2.9	4.0	4.2	4.3	4.4	4.4	66	69	25	2.7	2.8	38
19	2.8	4.0	4.1	4.2	4.4	4.4	60	72	14	2.2	2.5	38
20	2.8	4.0	4.2	4.2	4.4	4.4	55	72	5.6	2.2	2.2	39
21	2.6	4.0	4.2	4.3	4.4	4.7	51	69	5.3	2.0	2.1	51
22	2.3	4.1	4.3	4.2	4.4	5.0	49	65	5.0	1.8	2.4	61
23	2.2	4.0	4.2	4.2	4.4	5.0	48	62	5.0	2.0	2.5	62
24	3.3	4.1	4.2	4.2	4.4	5.0	47	60	4.7	1.6	2.1	61
25	4.4	4.0	4.2	4.2	4.3	5.0	46	41	4.4	2.4	1.7	61
26	4.4	4.0	4.2	4.4	4.2	5.0	47	27	11	2.8	2.2	61
27	4.4	4.0	4.2	4.3	4.2	5.2	44	27	18	2.4	2.4	61
28	4.4	4.0	4.2	4.4	4.2	5.2	42	27	17	2.0	2.3	60
29	4.4	4.0	4.2	4.4	---	5.2	43	27	17	1.9	2.0	60
30	4.4	4.0	4.2	4.4	---	5.2	42	28	16	2.2	1.7	60
31	4.4	---	4.2	4.3	---	5.3	---	29	---	3.0	1.7	---
TOTAL	235.0	124.6	129.2	133.8	121.0	142.0	1407.1	1474	1079.0	159.3	73.4	955.6
MEAN	7.581	4.153	4.168	4.316	4.321	4.581	46.90	47.55	35.97	5.139	2.368	31.85
MAX	21	4.4	4.3	4.4	4.4	5.3	77	72	83	15	2.9	62
MIN	2.2	4.0	4.0	4.2	4.2	4.2	5.5	27	4.4	1.6	1.7	1.5
AC-FT	466	247	256	265	240	282	2790	2920	2140	316	146	1900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

MEAN	15.20	20.32	11.90	12.96	11.64	14.89	20.56	43.57	54.62	25.89	19.14	21.21
MAX	45.8	97.6	58.2	161	58.0	94.5	72.9	112	188	89.2	114	133
(WY)	1976	1984	1982	1997	1986	1996	1986	1982	1983	1983	1988	1973
MIN	0.47	1.36	0.70	1.04	1.07	1.45	1.50	1.51	2.09	1.78	2.05	0.58
(WY)	1980	1989	1993	1993	1974	1977	1977	1977	1977	1977	1976	1979

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1968 - 2002	
ANNUAL TOTAL	2585.6		6034.0			
ANNUAL MEAN	7.084		16.53		22.64	
HIGHEST ANNUAL MEAN					46.7	1983
LOWEST ANNUAL MEAN					7.07	2001
HIGHEST DAILY MEAN	26	May 19	83	Jun 6	295	Jan 4 1997
LOWEST DAILY MEAN	1.9	Jul 24	1.5	Sep 3	0.02	Sep 26 1973
ANNUAL SEVEN-DAY MINIMUM	2.3	Jul 18	1.8	Aug 28	0.02	Sep 26 1973
MAXIMUM PEAK FLOW			85	Jun 5	325	Jan 3 1997
MAXIMUM PEAK STAGE			3.68	Jun 5	8.16	Apr 16 1993
ANNUAL RUNOFF (AC-FT)	5130		11970		16400	
10 PERCENT EXCEEDS	21		58		61	
50 PERCENT EXCEEDS	4.7		4.4		11	
90 PERCENT EXCEEDS	3.2		2.6		2.2	

e Estimated

PYRAMID AND WINNEMUCCA LAKES

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA

(Hydrologic Benchmark Station)

LOCATION.--Lat 39°25'54", long 120°14'13", in NE $^1/_4$ NE $^1/_4$ sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank, 2.2 mi upstream from bridge on State Highway 89, and 7.5 mi north of Truckee.

DRAINAGE AREA.--10.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.
PRECIPITATION DATA: October 1990 to September 1996.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,320 ft above NGVD of 1929, from topographic map. Prior to December 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

REMARKS.--Records good including estimated daily discharge. No storage or diversion upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,230 ft^3/s, January 1, 1997, gage height, 5.20 ft, from poor high-water mark on gage house. Rating curve extended above 160 ft^3/s on basis of slope-area measurement at gage height 4.28 ft; minimum daily, 1.0 ft^3/s, September 13, 1960.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 50 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 14	1730	68	2.80				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.1	3.0	4.6	2.9	5.2	15	17	14	3.2	1.8	1.6
2	1.8	2.1	3.5	5.7	2.9	e5.3	17	18	12	3.1	1.8	1.5
3	1.8	2.1	4.0	6.1	2.9	e5.1	21	20	12	2.9	1.8	1.5
4	1.8	2.0	3.4	4.8	2.9	4.7	24	22	11	2.9	1.8	1.5
5	1.8	2.0	3.3	4.7	2.9	4.8	28	24	11	2.8	1.7	1.5
6	1.8	2.0	3.3	10	2.9	9.3	26	25	11	2.8	1.8	1.6
7	1.8	2.0	3.5	8.0	3.0	8.3	25	26	10	2.7	1.8	1.7
8	1.8	2.1	3.3	6.6	3.0	6.7	27	24	9.8	2.6	1.7	1.7
9	1.8	2.1	3.3	5.8	e3.0	5.9	28	23	9.1	2.6	1.7	1.7
10	1.8	2.1	3.3	5.2	e2.9	5.6	30	22	8.4	2.5	1.6	1.6
11	1.9	3.7	3.1	4.9	2.9	5.7	30	20	7.8	2.4	1.6	1.6
12	1.8	3.4	3.1	4.6	2.9	6.4	32	20	7.3	2.4	1.6	1.6
13	1.9	2.9	3.1	4.5	3.0	6.0	33	20	7.0	2.4	1.6	1.6
14	1.9	2.6	3.2	4.3	3.0	5.5	44	21	6.6	2.3	1.6	1.5
15	1.9	2.4	3.0	e4.2	3.0	e5.4	38	21	6.2	2.2	1.6	1.5
16	1.8	2.4	3.0	e4.1	3.0	5.3	27	20	5.8	2.2	1.6	1.6
17	1.8	2.3	3.1	3.8	3.1	4.9	23	20	5.6	2.2	1.6	1.6
18	1.8	2.3	3.0	e3.7	3.1	e4.9	19	21	5.5	2.4	1.5	1.6
19	1.9	2.3	3.0	3.5	3.6	4.9	17	19	5.4	2.4	1.5	1.6
20	1.9	2.3	3.1	3.6	6.4	5.1	16	21	5.2	2.3	1.6	1.6
21	1.9	5.2	3.0	3.3	5.9	5.8	17	18	4.9	2.2	1.6	1.6
22	1.9	11	3.0	e3.2	6.0	6.7	18	16	4.7	2.0	1.6	1.5
23	1.9	4.1	3.0	3.2	6.8	6.6	20	15	4.5	2.0	1.6	1.5
24	1.9	12	3.0	3.1	5.8	5.8	21	14	4.3	1.9	1.6	1.5
25	1.9	5.4	3.0	3.1	5.5	5.6	23	14	4.1	1.9	1.6	1.5
26	1.9	3.8	3.0	3.1	5.5	5.8	24	13	4.0	1.9	1.6	1.6
27	1.9	3.3	3.0	3.2	5.5	6.7	21	13	3.8	1.9	1.6	1.6
28	1.9	3.1	3.3	e3.1	5.4	8.2	19	13	3.7	1.8	1.6	1.6
29	1.9	3.1	3.5	3.1	---	10	22	13	3.5	1.8	1.6	1.6
30	2.9	2.9	3.7	3.0	---	12	19	13	3.4	1.8	1.6	1.7
31	2.4	---	5.6	2.9	---	13	---	14	---	1.8	1.6	---
TOTAL	59.0	101.1	101.7	137.0	109.7	201.2	724	580	211.6	72.3	50.9	47.4
MEAN	1.903	3.370	3.281	4.419	3.918	6.490	24.13	18.71	7.053	2.332	1.642	1.580
MAX	2.9	12	5.6	10	6.8	13	44	26	14	3.2	1.8	1.7
MIN	1.8	2.0	3.0	2.9	2.9	4.7	15	13	3.4	1.8	1.5	1.5
AC-FT	117	201	202	272	218	399	1440	1150	420	143	101	94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.448	5.067	7.088	8.529	8.131	10.67	24.50	43.42	25.19	7.209	3.127	2.734
MAX	11.9	27.7	44.0	87.3	51.0	50.1	51.6	117	142	37.4	11.8	7.56
(WY)	1963	1984	1965	1997	1963	1986	1986	1969	1983	1983	1983	1983
MIN	1.46	1.83	2.03	1.81	2.54	2.74	6.13	3.45	1.82	1.36	1.20	1.11
(WY)	1995	1993	1977	1962	1994	1962	1975	1988	1992	1994	1994	1960

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1954 - 2002	
ANNUAL TOTAL	1436.7		2395.9			
ANNUAL MEAN	3.936		6.564		12.44	
HIGHEST ANNUAL MEAN					30.0	1983
LOWEST ANNUAL MEAN					2.65	1977
HIGHEST DAILY MEAN	16	Apr 26	44	Apr 14	800	Jan 1 1997
LOWEST DAILY MEAN	1.6	Jul 27	1.5	Aug 18	1.0	Sep 13 1960
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 3	1.5	Aug 30	1.1	Sep 9 1960
MAXIMUM PEAK FLOW			68	Apr 14	1230	Jan 1 1997
MAXIMUM PEAK STAGE			2.80	Apr 14	5.20	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	2850		4750		9010	
10 PERCENT EXCEEDS	9.4		20		32	
50 PERCENT EXCEEDS	3.0		3.1		4.5	
90 PERCENT EXCEEDS	1.7		1.6		1.9	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.—
CHEMICAL DATA: Water years 1968–72, 1986–96.
SPECIFIC CONDUCTANCE: November 2000 to current year.
WATER TEMPERATURE: Water years 1970–1974, November 2000 to current year.
SEDIMENT DATA: Water years 1968–75, 1981–96.

PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: November 2000 to current year.
WATER TEMPERATURE: October 1970 to September 1974, November 2000 to current year.

INSTRUMENTATION.—Water-temperature and specific conductance recorder since November 2000.

REMARKS.—Specific conductance records rated fair. Temperature records are excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum recorded, 212 microsiemens, August 6, 2002; minimum recorded, 46 microsiemens, April 14, 2002.
WATER TEMPERATURE: Maximum recorded, 20.5°C, June 28, 30, 1973; minimum recorded, –0.5°C, many days in November 2000 through March 2001.

EXTREMES FOR CURRENT YEAR.—
SPECIFIC CONDUCTANCE: Maximum recorded, 212 microsiemens, August 6; minimum recorded, 46 microsiemens, April 14.
WATER TEMPERATURE: Maximum recorded, 20.0°C, July 10, 14; minimum recorded, 0.0°C, many days October–March.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	138	134	136	133	115	108	103	100	115	112	93	91
2	138	135	135	132	112	94	103	84	116	112	95	92
3	138	136	135	132	109	102	97	86	116	113	96	93
4	138	136	134	131	112	109	101	97	117	113	95	93
5	138	135	134	131	112	108	102	92	117	113	95	91
6	138	135	133	130	113	109	92	76	116	113	92	73
7	138	135	133	130	112	109	85	80	115	109	82	77
8	137	134	133	130	112	110	90	85	115	110	85	82
9	137	135	133	129	113	111	93	90	117	114	87	85
10	137	134	132	129	114	112	95	93	117	113	89	84
11	137	133	131	121	115	113	97	95	116	113	89	84
12	137	134	127	116	115	114	98	97	115	113	86	82
13	136	134	126	119	115	110	100	98	115	111	86	83
14	136	133	128	124	115	108	101	99	114	112	90	86
15	136	133	129	126	117	113	103	100	114	111	92	86
16	136	133	129	126	117	113	105	102	113	111	92	89
17	136	133	130	127	115	109	106	102	113	110	92	90
18	136	134	130	127	115	114	109	104	113	110	96	89
19	137	133	130	126	116	114	109	105	113	96	94	89
20	136	133	130	126	115	112	110	105	96	89	92	89
21	136	133	129	88	116	115	109	104	94	91	90	84
22	136	133	98	78	116	111	111	107	94	88	86	82
23	136	133	110	98	116	114	114	109	90	86	86	81
24	136	133	111	68	117	115	114	108	91	89	88	86
25	135	132	100	83	117	114	112	109	92	91	89	86
26	135	132	108	100	116	114	111	106	92	90	89	85
27	136	131	112	108	116	113	112	108	91	90	86	81
28	135	132	113	109	115	109	115	110	92	90	82	76
29	135	132	114	108	112	109	116	111	---	---	79	73
30	144	134	116	114	110	98	116	111	---	---	75	71
31	137	134	---	---	100	91	116	111	---	---	72	68
MONTH	144	131	136	68	117	91	116	76	117	86	96	68

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	70	65	58	56	58	55	105	99	143	135	153	150
2	68	62	58	55	60	56	106	101	182	141	153	150
3	65	60	56	53	61	58	108	102	165	145	153	150
4	63	57	56	51	62	60	110	104	180	149	152	150
5	59	55	54	50	63	60	111	106	200	150	152	149
6	58	56	55	49	62	60	113	107	212	150	152	149
7	58	55	53	50	63	60	114	109	191	151	151	149
8	58	54	54	51	65	62	115	110	192	152	151	148
9	56	53	54	51	68	64	118	112	188	152	150	148
10	56	53	55	52	68	67	120	114	160	153	151	148
11	56	52	56	53	71	68	121	115	168	155	151	148
12	55	51	55	52	73	71	160	116	165	156	151	148
13	54	50	54	51	75	73	133	117	171	157	151	148
14	53	46	54	51	77	74	162	118	200	158	151	148
15	51	48	54	51	78	75	129	119	190	158	152	148
16	53	51	54	52	79	76	124	119	181	157	151	148
17	55	53	54	51	81	78	141	119	159	155	151	147
18	56	55	54	51	82	78	124	118	160	155	150	147
19	57	56	54	51	84	79	163	118	156	154	150	147
20	58	57	56	54	86	81	151	120	155	153	150	147
21	58	56	57	55	87	83	165	120	154	152	150	147
22	58	55	58	56	88	84	130	123	155	152	150	147
23	57	54	58	57	90	86	134	123	154	152	150	147
24	56	54	59	57	93	87	132	124	153	151	149	147
25	56	53	59	57	94	89	154	125	153	151	149	146
26	54	53	60	57	95	91	161	124	153	151	149	146
27	56	53	60	58	97	92	148	125	153	150	149	146
28	56	55	60	57	99	93	157	127	152	150	149	145
29	56	55	61	57	101	95	175	131	152	150	149	145
30	57	55	60	56	103	97	175	132	153	150	148	144
31	---	---	58	55	---	---	139	134	152	150	---	---
MONTH	70	46	61	49	103	55	175	99	212	135	153	144

WATER-QUALITY RECORDS

WATER TEMPERATURE, (DEGREES C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.5	6.0	5.5	2.0	1.5	0.0	3.5	2.5	1.5	0.5	2.5	0.0
2	11.5	6.0	6.0	2.5	1.0	0.0	3.0	1.5	1.5	0.0	2.5	0.0
3	11.5	0.0	5.5	2.5	0.0	0.0	2.0	1.0	1.5	0.0	3.0	0.0
4	10.5	5.5	6.0	2.5	1.0	0.0	2.0	0.0	1.5	0.0	3.5	0.5
5	9.5	5.0	6.0	3.0	2.0	0.5	3.5	1.5	1.5	0.0	4.0	1.0
6	10.0	5.5	6.0	2.5	2.5	1.5	2.5	1.5	1.5	0.0	2.0	0.0
7	9.5	5.0	5.0	2.0	2.0	1.0	3.0	1.5	2.5	0.0	1.5	0.0
8	9.5	5.5	4.5	1.5	2.5	1.0	3.0	1.5	2.0	0.5	2.5	0.0
9	8.0	3.5	4.5	1.0	3.0	2.0	3.5	2.0	1.5	0.0	3.0	0.0
10	7.5	2.5	5.0	2.0	2.5	1.5	2.5	1.5	2.0	0.0	3.0	0.0
11	9.0	5.5	6.0	4.0	2.5	1.0	3.0	0.5	3.0	0.5	4.5	1.0
12	8.0	3.5	6.0	4.0	2.5	1.0	2.5	1.5	3.0	1.5	3.5	1.5
13	8.0	3.0	5.5	3.5	3.0	0.0	1.5	0.0	3.5	1.5	3.0	0.0
14	8.0	3.5	6.0	3.5	0.5	0.0	1.5	0.0	3.5	2.0	2.5	0.0
15	8.5	3.5	5.5	2.5	1.0	0.0	1.0	0.0	3.5	1.5	1.5	0.0
16	8.5	4.5	6.0	4.0	2.5	0.0	0.5	0.0	3.5	1.5	2.0	0.0
17	8.5	5.0	5.5	3.5	2.5	0.5	1.5	0.0	3.5	1.5	2.5	0.0
18	8.0	3.5	4.5	2.0	1.5	0.5	0.0	0.0	3.5	1.5	2.0	0.0
19	8.0	3.5	5.5	2.0	3.0	1.5	0.5	0.0	3.5	2.0	4.0	0.0
20	8.0	3.5	6.0	4.0	2.5	1.0	1.5	0.0	3.5	1.5	5.0	0.5
21	8.5	4.0	5.0	3.5	2.5	1.5	1.5	0.0	3.5	1.0	5.5	1.5
22	7.5	3.5	4.0	2.5	2.0	1.0	0.5	0.0	4.0	1.5	5.0	1.0
23	7.5	4.5	4.0	1.0	2.5	1.5	0.0	0.0	3.5	1.5	3.0	0.5
24	6.5	2.0	3.0	1.0	2.0	0.5	1.0	0.0	3.5	0.5	3.5	1.5
25	6.5	3.0	3.0	0.5	2.5	0.0	2.0	1.0	3.5	0.5	4.5	0.0
26	7.0	3.0	2.0	0.0	3.5	2.5	1.5	0.0	4.0	0.5	5.5	1.0
27	8.0	4.5	1.5	0.0	3.5	2.5	1.5	0.0	3.5	1.0	5.5	0.5
28	8.0	5.0	2.5	0.0	3.5	2.5	0.5	0.0	3.5	0.0	5.5	1.0
29	7.0	5.0	2.0	0.0	3.5	2.5	0.0	0.0	---	---	5.5	1.0
30	7.0	5.5	2.5	0.5	3.5	2.5	0.0	0.0	---	---	5.5	1.0
31	6.5	4.0	---	---	2.5	2.0	0.5	0.0	---	---	5.5	1.0
MONTH	11.5	0.0	6.0	0.0	3.5	0.0	3.5	0.0	4.0	0.0	5.5	0.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	1.0	6.5	2.0	12.0	7.0	18.5	8.0	18.5	9.5	15.0	7.5
2	5.5	1.0	9.5	2.0	13.0	4.0	18.5	9.5	18.0	9.5	15.5	8.0
3	5.5	1.0	10.0	2.5	14.0	5.0	18.0	9.0	17.5	9.0	14.5	8.0
4	6.0	1.0	10.0	2.5	15.0	6.0	18.0	8.0	17.0	10.0	14.5	8.5
5	5.0	1.0	10.0	2.5	16.0	6.5	18.0	8.0	16.0	8.5	14.0	8.5
6	5.5	1.0	10.0	2.5	16.0	6.5	18.5	8.0	15.5	7.0	12.0	7.5
7	6.0	1.0	9.0	2.5	15.5	6.5	18.5	9.0	15.5	6.5	11.0	4.5
8	6.0	1.5	9.0	2.0	14.0	6.5	18.5	8.0	15.5	6.0	11.5	4.5
9	4.0	2.0	9.5	2.5	12.5	4.5	19.5	8.5	16.0	7.0	12.0	5.0
10	6.5	2.0	7.5	3.0	14.0	4.5	20.0	9.5	16.5	7.5	12.0	5.0
11	6.0	1.5	10.0	2.5	15.0	5.0	18.0	10.0	16.5	8.0	12.5	6.0
12	7.0	1.5	10.5	2.5	16.0	6.5	16.5	11.0	17.5	8.5	12.5	6.0
13	7.5	1.5	9.0	3.5	16.5	7.0	19.5	10.5	17.5	9.0	13.0	6.0
14	7.5	2.0	11.5	3.5	16.5	7.0	20.0	10.5	17.5	9.5	12.5	6.0
15	4.0	1.0	11.5	4.0	16.0	5.5	18.5	10.0	17.5	9.5	13.0	8.0
16	3.5	0.5	12.0	3.5	16.0	5.5	19.5	10.5	17.0	9.0	11.5	5.5
17	3.5	0.5	12.5	4.5	16.5	7.5	17.0	9.5	16.5	8.0	11.0	5.5
18	3.0	1.0	12.0	5.5	17.0	8.0	13.5	9.5	16.0	7.0	11.5	5.0
19	5.0	1.0	10.0	5.0	17.0	7.5	16.5	9.0	15.0	7.0	11.5	5.0
20	6.0	0.5	6.5	3.5	17.0	8.0	18.0	9.0	14.0	6.5	12.0	5.0
21	8.5	1.0	9.0	3.0	17.0	8.0	18.0	10.0	14.0	5.5	12.0	5.5
22	9.0	1.0	10.5	2.0	15.5	8.0	18.5	9.0	14.0	6.0	12.0	6.0
23	9.5	1.5	11.0	3.0	17.0	7.5	17.5	7.5	14.0	5.5	12.0	6.0
24	8.5	2.0	12.0	3.5	17.0	7.0	18.0	9.0	14.0	5.5	11.5	5.5
25	9.0	3.0	12.5	4.5	17.5	8.0	17.0	7.5	14.0	5.5	11.0	4.5
26	6.5	3.0	12.5	4.0	18.5	9.5	17.5	7.5	14.0	6.0	10.5	4.5
27	6.5	2.0	12.5	5.0	18.0	8.0	18.0	9.0	14.0	6.5	11.0	7.0
28	7.0	2.0	14.0	5.5	18.0	8.5	18.5	9.0	14.0	6.5	9.0	5.0
29	6.0	1.5	15.0	5.5	18.5	8.5	18.0	8.5	14.5	7.0	9.0	4.5
30	7.5	2.0	15.0	6.0	18.5	8.5	17.5	9.5	15.0	7.5	8.5	4.0
31	---	---	14.5	5.5	---	---	18.5	9.0	14.5	8.0	---	---
MONTH	9.5	0.5	15.0	2.0	18.5	4.0	20.0	7.5	18.5	5.5	15.5	4.0

WATER-QUALITY RECORDS

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DEPTH BOTTOM AT SAMPLE LOCATION, (FEET) (81903)	SAMPLING DEPTH (FEET) (00003)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (US/CM) (00095)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)
JUL						
09...*	1300	1.10	.50	15.5	113	1.00
09...*	1301	1.20	.50	15.5	114	3.00
09...*	1302	1.30	.50	15.5	114	5.00
09...*	1303	1.30	.50	15.5	114	7.00
09...*	1304	1.20	.50	15.0	114	9.00
09...*	1305	1.10	.50	15.0	114	11.0

* Instantaneous discharge at the time of cross-sectional measurements: July 9, 26 ft^3/s.

10344300 STAMPEDE RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°28'14", long 120°06'11", in SE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.29, T.19 N., R.17 E., Sierra County, Hydrologic Unit 16050102, Tahoe National Forest, in control house near base of spillway of Stampede Dam on Little Truckee River, 0.2 mi upstream from Worn Mill Canyon, and 11.0 mi northeast of Truckee.

DRAINAGE AREA.--136 mi^2.

PERIOD OF RECORD.--August 1969 to current year. August 1969 to September 1977 (monthend elevations and contents only). October 1977 to September 1987 (daily contents). Prior to October 1976, published as "near Boca."

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good. Reservoir is formed by rolled-earth and rockfill dam. Storage began August 1, 1969. Total capacity, 226,500 acre-ft at elevation 5,948.7 ft, spillway crest. Inactive contents, 5,010 acre-ft, includes 660 acre-ft dead contents below elevation 5,798.3 ft. Figures given, including extremes, represent total contents at 0800 hours. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES (at 0800 hours) FOR PERIOD OF RECORD.—Maximum contents, 254,493 acre-ft, June 1, 1983, elevation, 5,956.55 ft; minimum since reservoir first filled, 30,772 acre-ft, January 31, February 1, 1978, elevation, 5,853.60 ft.

EXTREMES (at 0800 hours) FOR CURRENT YEAR.—Maximum contents, 160,200 acre-ft, October 1, elevation, 5,927.51 ft, October 1; minimum, 109,700 acre-ft, September 19, elevation, 5,907.35 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated July 1971)

5,850	27,915	5,880	60,185	5,910	115,865	5,940	197,630
5,860	36,470	5,890	76,008	5,920	140,141	5,950	231,005
5,870	47,090	5,900	94,535	5,930	167,355	5,960	267,386

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160200	156500	155500	154100	153900	153500	151800	143200	133000	120600	113600	110800
2	160100	156500	155800	154200	154000	153400	151900	e142100	132400	120500	113500	110700
3	160000	156300	156000	154200	154000	153300	152100	141000	131800	120300	113300	110700
4	159800	156300	156000	154200	154000	153300	152400	140100	131200	120100	113200	110500
5	159700	156200	156000	154200	154000	153300	152900	139300	130500	119900	113000	110400
6	159600	156100	155800	154200	154000	153300	153300	138600	129900	119700	e112800	110300
7	159400	156000	155700	154200	154000	e153600	153700	138200	129400	119500	112700	110200
8	159300	155900	155600	154200	154200	153600	154100	137900	128800	119200	112600	110100
9	159100	155900	155500	154300	154100	153500	154400	137700	128100	119000	112500	110000
10	158900	155800	155400	154200	154100	153400	154600	137400	127300	118800	112400	110000
11	158800	155800	155300	154200	154100	e153300	154500	137000	126500	118600	112400	109900
12	158600	155800	155100	154200	154100	153300	154400	e136600	125800	118400	e112300	109900
13	158500	155800	155000	154100	154000	153200	154200	136200	125400	118100	112300	109800
14	158400	155700	155200	154200	154000	153100	154100	136000	124800	117900	112200	109800
15	158200	155600	155000	154100	153900	153000	154300	136000	124200	117700	112100	109900
16	158100	155600	154800	154000	153900	152800	154400	136000	123800	117400	112100	109800
17	158000	155500	e154900	154000	153900	152700	154100	136000	123200	117200	112000	109800
18	157900	155400	154700	153900	153800	152500	153600	135900	122800	117000	111900	109800
19	e157800	155300	154700	153900	153700	152300	153100	136100	122400	116800	111800	109700
20	157700	155200	154700	153800	153700	152200	152500	136200	122200	116500	111700	109800
21	157600	155100	154500	153900	153700	152100	151900	136100	122000	116100	e111600	109800
22	e157400	155400	154400	153900	153700	152000	151200	135800	121800	115800	e111500	109800
23	157400	155500	154400	153800	153700	e152000	150500	135600	121700	115400	111400	109900
24	157100	155700	154300	153700	153700	152000	149600	135200	121700	115000	111300	e109900
25	157100	155800	154200	153800	153600	e152000	148900	134900	121500	114700	111300	109900
26	156900	155700	154200	153800	153600	151900	148000	134500	121400	114400	111200	110000
27	156900	155600	154100	154000	153600	151900	147200	134100	121200	e114300	111100	110100
28	156800	155700	154200	153900	153600	151800	146100	133900	121100	114200	111000	110100
29	156700	e155700	154200	153900	---	151700	145200	133700	120900	114000	111000	110100
30	156700	155600	154200	153900	---	151700	144300	133700	120800	113900	110900	110100
31	156600	---	154200	153900	---	151700	---	133300	---	113800	110800	---
MAX	160200	156500	156000	154300	154200	153600	154600	143200	133000	120600	113600	110800
MIN	156600	155100	154100	153700	153600	151700	144300	133300	120800	113800	110800	109700
a	5926.27	5925.88	5925.37	5925.28	5925.16	5924.48	5921.64	5917.38	5912.18	5909.10	5907.82	5907.49
b	-3700	-1000	-1400	-300	-300	-1900	-7400	-11000	-12500	-7000	-3000	-700

CAL YR 2001 MAX 200700 MIN 154100 b -46800
WTR YR 2002 MAX 160200 MIN 109700 b -50200

e Estimated
a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA

LOCATION.--Lat 39°26'09", long 120°05'00", in SW $^1/_4$ SW $^1/_4$ sec.3, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank, 1 mi upstream from Boca Reservoir, 1.5 mi upstream from Dry Creek, 3.0 mi downstream from Stampede Dam, and 5.5 mi northeast of Truckee.

DRAINAGE AREA.--146 mi^2.

PERIOD OF RECORD.--June 1903 to October 1910, September 1939 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734. Published as "at Pine Station," June 1903 to December 1907, as "at Starr," January 1908 to October 1910, and as "near Boca," September 1939 to September 1976.

REVISED RECORDS.--WSP 1564: 1903-4, 1906-7, 1910, drainage area at site used in 1903-7.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,618.67 ft above NGVD of 1929 (U.S. Bureau of Reclamation Benchmark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records good. Flow regulated by Independence Lake (station 10342900) since 1939 and Stampede Reservoir (station 10344300) since 1969. There is one transbasin diversion to Sierra Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Water years 1939–68, prior to construction of Stampede Dam, maximum discharge, 13,300 ft^3/s, February 1, 1963, gage height, 9.00 ft, from rating curve extended above 1,600 ft^3/s, on basis of slope-area measurement of peak flow; minimum daily, 3.0 ft^3/s, November 30, 1954. Maximum discharge since construction of Stampede Dam in 1969, 3,850 ft^3/s, January 3, 1997, gage height, 5.26 ft; minimum daily, 0.30 ft^3/s, September 16–21, 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	52	86	67	e34	105	230	781	590	97	68	32
2	83	54	90	68	e34	104	225	781	590	97	68	32
3	83	54	67	68	e34	104	222	735	589	97	67	32
4	83	54	81	67	e34	104	222	702	589	97	67	32
5	83	54	83	67	e34	105	225	701	588	110	67	32
6	83	54	85	67	e34	112	224	641	588	118	59	32
7	83	54	85	67	e34	133	223	521	587	118	41	32
8	83	54	85	67	33	147	268	480	585	118	33	32
9	83	54	86	67	e34	147	355	479	584	118	33	32
10	83	54	86	67	e34	147	441	485	583	118	32	32
11	83	55	86	67	60	148	536	490	525	118	33	32
12	71	55	86	67	80	153	581	489	428	118	32	32
13	62	54	86	66	80	153	581	442	388	118	32	32
14	62	54	86	65	80	150	582	393	387	118	32	32
15	62	54	85	65	81	149	584	393	387	117	32	32
16	62	54	86	65	81	149	585	393	387	117	32	32
17	62	54	86	65	81	149	584	393	328	118	32	32
18	62	54	86	58	81	147	584	393	272	143	32	32
19	62	54	86	52	82	148	583	393	223	164	32	32
20	62	54	85	52	83	149	582	393	169	159	32	32
21	62	55	73	51	84	151	581	393	121	163	32	32
22	62	57	65	52	97	155	581	391	100	163	32	32
23	77	54	65	e51	107	151	638	392	99	163	32	32
24	64	59	65	e51	107	150	676	391	99	162	32	32
25	58	56	65	51	106	148	739	391	99	127	32	32
26	51	54	65	52	106	149	782	390	98	75	32	32
27	50	54	65	51	107	150	784	390	98	67	32	32
28	50	70	66	e44	106	196	782	388	98	68	32	32
29	50	86	66	e34	---	231	786	388	98	68	32	32
30	51	84	67	e34	---	231	783	442	98	68	32	32
31	51	---	67	e34	---	230	---	545	---	68	32	---
TOTAL	2094	1709	2421	1799	1948	4645	15549	14979	10375	3570	1208	960
MEAN	67.55	56.97	78.10	58.03	69.57	149.8	518.3	483.2	345.8	115.2	38.97	32.00
MAX	83	86	90	68	107	231	786	781	590	164	68	32
MIN	50	52	65	34	33	104	222	388	98	67	32	32
AC-FT	4150	3390	4800	3570	3860	9210	30840	29710	20580	7080	2400	1900

e Estimated

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1968, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	76.0	83.5	123	87.3	131	170	399	543	310	78.1	29.8	25.8
MAX	394	630	725	264	835	374	855	1304	1045	433	180	76.5
(WY)	1963	1951	1965	1956	1963	1967	1952	1952	1967	1967	1940	1959
MIN	13.5	13.0	11.6	9.45	22.0	39.0	106	171	45.7	6.06	4.45	5.93
(WY)	1962	1940	1960	1962	1948	1948	1961	1961	1954	1949	1949	1948

SUMMARY STATISTICS	WATER YEARS 1939 - 1968		
ANNUAL MEAN	170		
HIGHEST ANNUAL MEAN	321		1952
LOWEST ANNUAL MEAN	58.9		1961
HIGHEST DAILY MEAN	8810	Feb 1	1963
LOWEST DAILY MEAN	3.0	Nov 30	1954
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 17	1949
MAXIMUM PEAK FLOW	13300	Feb 1	1963
MAXIMUM PEAK STAGE	9.00	Feb 1	1963
ANNUAL RUNOFF (AC-FT)	123200		
10 PERCENT EXCEEDS	454		
50 PERCENT EXCEEDS	70		
90 PERCENT EXCEEDS	13		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	72.92	42.44	73.08	105.5	86.66	140.0	309.2	542.7	332.0	170.7	115.8	57.84
MAX	503	132	711	1089	400	418	923	1371	1733	1301	573	359
(WY)	1974	1975	1984	1997	1996	1996	1986	1969	1983	1983	1975	1971
MIN	0.56	0.75	2.85	16.7	10.6	13.8	25.6	30.6	28.1	24.1	1.65	0.47
(WY)	1970	1970	1970	1980	1970	1970	1970	1988	1988	1981	1969	1969

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1969 - 2002	
ANNUAL TOTAL	39752		61257			
ANNUAL MEAN	108.9		167.8		171.2	
HIGHEST ANNUAL MEAN					427	1983
LOWEST ANNUAL MEAN					53.4	1992
HIGHEST DAILY MEAN	246	May 14	786	Apr 29	2590	Jan 12 1997
LOWEST DAILY MEAN	50	Oct 27	32	Aug 10	0.30	Sep 16 1969
ANNUAL SEVEN-DAY MINIMUM	51	Oct 26	32	Aug 12	0.31	Sep 15 1969
MAXIMUM PEAK FLOW			797	Apr 29	3850	Jan 3 1997
MAXIMUM PEAK STAGE			2.42	Apr 29	5.26	Jan 3 1997
ANNUAL RUNOFF (AC-FT)	78850		121500		124000	
10 PERCENT EXCEEDS	148		540		476	
50 PERCENT EXCEEDS	100		83		53	
90 PERCENT EXCEEDS	57		32		28	

10344490 BOCA RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'20", long 120°05'43", in NE $^1/_4$ NW $^1/_4$ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house at Boca Dam on Little Truckee River, 1,800 ft upstream from mouth, and 6.3 mi northeast of Truckee.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--December 1938 to current year. Prior to October 1976 published as "at Boca." Monthend contents only for December 1938 to September 1957, published in WSP 1734.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began December 8, 1938. Usable capacity, 40,868 acre-ft between elevations 5,521 ft, outlet sill, and 5,605 ft, top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft. Dead contents, 241 acre-ft. Records, including extremes, represent usable contents at 0800 hours. Water is used for irrigation in the State of Nevada and for power development. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 41,440 acre-ft, December 23, 1955, elevation, 5,605.55 ft; minimum, 37 acre-ft, March 4-9, 1955, elevation, 5,521.65 ft.

EXTREMES (at 0800 hours) FOR CURRENT YEAR.—Maximum contents, 40,100 acre-ft, July 25–27, maximum elevation, 5,604.27 ft, July 25; minimum, 5,020 acre-ft, November 22, elevation, 5,550.21 ft.

Capacity table (elevation, in feet, and contents in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated November 1970)

5,540	2,356	5,555	6,725	5,580	20,002	5,600	36,128
5,545	3,513	5,560	8,778	5,590	27,488	5,605	40,868
5,550	4,970	5,570	13,768				

RESERVOIR STORAGE (ACRE-FEET) , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8580	7650	5520	6660	7890	8790	17400	31800	35100	38800	39800	39000
2	8520	7570	5640	6740	7750	8960	17900	32500	34800	38900	39800	38800
3	8480	7490	5810	6890	7620	9120	18300	33200	34500	38900	39700	38600
4	8420	7420	5870	7040	7490	9270	18700	33700	34400	38900	39700	38400
5	8370	7350	5950	7150	7360	9430	19200	34200	34300	38800	39700	38000
6	8330	7270	6030	7250	7240	9620	19600	34700	34400	38800	39700	37700
7	8280	7190	6120	7400	7250	9900	20000	35100	34600	38900	39700	37300
8	8230	7070	6210	7540	7220	10200	20400	35300	34700	38900	39700	36900
9	8180	6930	6300	7680	7150	10400	20800	35500	34900	38900	39700	36500
10	8120	6760	6390	7810	7080	10700	21400	35600	35100	38900	39700	36000
11	8080	6610	6480	7940	7020	11000	21900	35800	35500	38900	39700	e35600
12	8050	6480	6540	8080	7030	11300	22600	e36000	35900	38900	39700	35200
13	8000	6360	6570	8210	7060	11600	23300	36300	36200	39000	39700	34700
14	7980	6240	6630	8290	7100	11900	e23900	36300	36400	39000	39700	34400
15	7980	6120	6660	8370	7120	12100	24500	36400	36700	39000	39700	34000
16	7970	5970	6700	8450	7160	12400	25100	36500	36900	39100	39700	33600
17	7950	5820	6730	8500	7190	12600	25800	36600	37200	39100	39700	33300
18	7950	5670	6760	8530	7230	12800	26400	36500	37300	39200	39700	32900
19	7930	5520	6790	8540	7260	13000	26900	36500	37400	39400	39700	32500
20	7920	5340	6830	8540	7320	13200	27400	36500	e37600	39500	39700	32100
21	7910	5160	6850	8530	7390	13400	27900	36500	37800	39600	39700	31700
22	e7900	5020	6840	8540	7520	13700	28300	36500	37800	39800	39700	31300
23	7890	5060	6840	8490	7710	14000	28600	36200	37900	39900	39700	30900
24	7910	5110	6820	8440	7900	14300	29000	35800	38000	40000	39600	30500
25	7900	5180	6800	8400	8080	e14600	29300	35600	38100	40100	39600	30100
26	7900	5210	6780	8360	8250	14900	29700	35400	38200	40100	39600	e29700
27	7910	5240	6760	8340	8440	15200	30200	35300	38300	40100	39600	29300
28	7910	5260	6750	8290	8620	15500	30600	35300	38400	40000	39600	28800
29	7860	5360	6750	8220	---	15900	30900	35400	38500	39900	39400	28400
30	7810	5440	6700	8140	---	16400	31200	35500	38700	39900	39300	27900
31	7740	---	6620	8020	---	16900	---	35400	---	39800	39100	---
MAX	8580	7650	6850	8540	8620	16900	31200	36600	38700	40100	39800	39000
MIN	7740	5020	5520	6660	7020	8790	17400	31800	34300	38800	39100	27900
a	5557.62	5551.45	5554.77	5558.31	5559.70	5575.34	5594.54	5599.26	5602.73	5603.93	5603.20	5590.49
b	-830	-2300	+1180	+1400	+600	+8280	+14300	+4200	+3300	+1100	-700	-11200

CAL YR 2001 MAX 21500 MIN 5020 b -4680
WTR YR 2002 MAX 40100 MIN 5020 b +19330

e Estimated
a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA

LOCATION.--Lat 39°23'13", long 120°05'40", in NE $^1/_4$ NW $^1/_4$ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank, 800 ft upstream from mouth, 1,000 ft downstream from Boca Dam, and 6.2 mi northeast of Truckee.

DRAINAGE AREA.--173 mi^2.

PERIOD OF RECORD.--April to October 1890 (monthly discharge only), January 1911 to September 1915, January 1939 to current year. Prior to October 1976 published as "at Boca." Monthly discharge only for January 1939 to September 1957, published in WSP 1734.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above NGVD of 1929, from topographic map. January 1, 1911, to September 30, 1915, nonrecording gage at site 650 ft downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good. Flow regulated by Boca Reservoir (station 10344490) since 1938, Independence Lake (station 10342900) since 1939, and Stampede Reservoir (station 10344300) since 1969. There is one transmountain diversion to Sierra Valley of about 6,000 acre-ft per year. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,800 ft^3/s, December 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	94	43	47	107	45	45	445	744	19	70	118
2	105	94	44	21	107	44	45	445	742	65	70	122
3	105	94	44	0.65	107	43	45	447	678	92	70	131
4	105	94	44	14	106	43	45	447	643	107	70	163
5	105	94	44	22	105	43	45	444	585	107	53	213
6	105	93	44	10	54	43	45	432	526	107	5.1	229
7	105	111	44	0.55	55	44	45	401	505	107	19	233
8	105	120	44	0.54	71	44	71	401	505	107	19	233
9	104	132	44	0.50	71	44	152	401	479	107	19	250
10	103	139	44	0.48	70	44	170	401	416	107	19	257
11	101	131	52	0.45	70	44	255	401	341	107	19	256
12	86	126	72	0.44	71	45	270	401	298	104	19	250
13	70	118	72	15	71	45	313	401	281	93	19	229
14	62	113	72	26	71	45	314	376	281	93	19	222
15	62	128	72	26	71	45	302	335	279	93	19	219
16	62	135	74	32	71	45	255	377	261	93	19	227
17	62	135	76	50	71	56	296	415	262	93	19	230
18	62	135	76	50	71	74	351	415	245	94	19	230
19	62	145	76	51	71	80	331	414	120	94	19	237
20	62	149	76	52	72	80	375	415	71	94	19	238
21	62	148	76	53	53	63	378	415	65	94	19	228
22	62	81	76	67	43	48	399	497	61	94	19	227
23	62	43	76	75	43	44	480	551	42	94	19	229
24	62	43	76	75	43	44	520	522	42	94	19	238
25	58	43	76	75	44	44	536	504	39	94	19	240
26	43	43	76	75	44	44	553	477	23	94	32	249
27	43	43	76	75	44	45	544	434	22	94	39	259
28	61	43	77	75	44	45	665	399	20	94	64	286
29	74	43	85	75	---	45	644	359	19	94	110	286
30	87	43	120	e89	---	45	561	374	19	94	107	285
31	94	---	77	e104	---	45	---	702	---	88	107	---
TOTAL	2433	2953	2048	1257.61	1921	1508	9050	13448	8614	2911	1158.1	6814
MEAN	78.48	98.43	66.06	40.57	68.61	48.65	301.7	433.8	287.1	93.90	37.36	227.1
MAX	105	149	120	104	107	80	665	702	744	107	110	286
MIN	43	43	43	0.44	43	43	45	335	19	19	5.1	118
AC-FT	4830	5860	4060	2490	3810	2990	17950	26670	17090	5770	2300	13520

e Estimated

10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1915, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.8	38.1	29.2	83.4	75.5	196	721	790	582	169	36.5	26.3
MAX	34.2	58.4	39.3	283	173	558	1367	1260	1211	435	66.3	35.7
(WY)	1915	1913	1914	1914	1914	1914	1914	1911	1911	1911	1911	1912
MIN	14.1	28.4	23.2	20.5	28.4	56.3	106	379	212	50.7	20.1	14.4
(WY)	1914	1915	1912	1913	1912	1912	1912	1912	1913	1912	1915	1915

SUMMARY STATISTICS	WATER YEARS 1911 - 1915		
ANNUAL MEAN	193		
HIGHEST ANNUAL MEAN	387		1914
LOWEST ANNUAL MEAN	94.7		1912
HIGHEST DAILY MEAN	2360	Apr 15	1914
LOWEST DAILY MEAN	.00	Sep 26	1911
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 26	1911
ANNUAL RUNOFF (AC-FT)	140100		
10 PERCENT EXCEEDS	800		
50 PERCENT EXCEEDS	49		
90 PERCENT EXCEEDS	16		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1969, BY WATER YEAR (WY)

MEAN	89.7	106	144	156	160	132	264	426	315	159	146	120
MAX	303	611	856	649	606	442	808	1647	974	389	408	414
(WY)	1968	1951	1951	1965	1963	1967	1952	1952	1967	1967	1958	1952
MIN	.000	.12	.20	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1940	1967	1960	1939	1939	1939	1939	1939	1939	1939	1939	1939

SUMMARY STATISTICS	WATER YEARS 1939 - 1969		
ANNUAL MEAN	190		
HIGHEST ANNUAL MEAN	435		1952
LOWEST ANNUAL MEAN	65.8		1961
HIGHEST DAILY MEAN	5520	Dec 24	1955
LOWEST DAILY MEAN	.00	Jan 1	1939
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	1939
MAXIMUM PEAK FLOW	8800	Dec 24	1955
ANNUAL RUNOFF (AC-FT)	137700		
10 PERCENT EXCEEDS	430		
50 PERCENT EXCEEDS	107		
90 PERCENT EXCEEDS	.02		

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2002, BY WATER YEAR (WY)

MEAN	106.7	77.33	96.20	115.9	91.44	126.5	277.1	479.6	308.9	204.3	152.8	115.4
MAX	441	327	568	1296	433	522	975	1148	1788	1131	585	418
(WY)	1972	1984	1984	1997	1997	1996	1986	1985	1983	1983	1975	1971
MIN	0.000	0.020	0.11	0.001	1.60	0.13	0.39	0.31	2.63	0.75	13.6	0.55
(WY)	1995	1991	1978	1995	1995	1995	1988	1988	1977	1981	1984	1970

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1970 - 2002	
ANNUAL TOTAL	42950.55		54115.71			
ANNUAL MEAN	117.7		148.3		179.8	
HIGHEST ANNUAL MEAN					470	1983
LOWEST ANNUAL MEAN					55.6	1992
HIGHEST DAILY MEAN	252	Jun 8	744	Jun 1	2530	Jan 9 1997
LOWEST DAILY MEAN	0.24	Apr 26	0.44	Jan 12	0.00	Sep 13 1994
ANNUAL SEVEN-DAY MINIMUM	0.28	Apr 21	1.9	Jan 6	0.00	Sep 13 1994
MAXIMUM PEAK FLOW			749	May 31	2720	Jan 8 1997
MAXIMUM PEAK STAGE			3.91	May 31	6.14	Jan 8 1997
ANNUAL RUNOFF (AC-FT)	85190		107300		130300	
10 PERCENT EXCEEDS	203		406		457	
50 PERCENT EXCEEDS	126		77		91	
90 PERCENT EXCEEDS	31		22		0.60	

PYRAMID AND WINNEMUCCA LAKES BASIN

10344505 TRUCKEE RIVER AT BOCA BRIDGE, NEAR TRUCKEE, CA

LOCATION.—Lat 39°23'07", long 120°05'12", in SE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on right bank, 0.4 mi downstream from mouth of Little Truckee River, 0.7 mi southeast of Boca Dam, 6.5 mi northeast of Truckee, and 10.6 mi north of Kings Beach.

DRAINAGE AREA.—173 mi^2.

PERIOD OF RECORD.—August to September 2002.

GAGE.—Water-stage recorder. Elevation of gage is 5,527 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. Flow regulated by Lake Tahoe and Donner, Martis Creek, and Independence Lakes, and Prosser Creek, Stampede, and Boca Reservoirs (stations 10337000, 10338400, 10339380, 10342900, 10340300, 10344300, and 10344490, respectively), and by several powerplants. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 563 ft^3/s, September 6, 2002; minimum, 373 ft^3/s, August 28, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	450
2	---	---	---	---	---	---	---	---	---	---	---	448
3	---	---	---	---	---	---	---	---	---	---	---	450
4	---	---	---	---	---	---	---	---	---	---	---	468
5	---	---	---	---	---	---	---	---	---	---	---	507
6	---	---	---	---	---	---	---	---	---	---	---	514
7	---	---	---	---	---	---	---	---	---	---	---	508
8	---	---	---	---	---	---	---	---	---	---	---	495
9	---	---	---	---	---	---	---	---	---	---	---	510
10	---	---	---	---	---	---	---	---	---	---	---	510
11	---	---	---	---	---	---	---	---	---	---	---	512
12	---	---	---	---	---	---	---	---	---	---	---	517
13	---	---	---	---	---	---	---	---	---	---	---	519
14	---	---	---	---	---	---	---	---	---	---	---	525
15	---	---	---	---	---	---	---	---	---	---	---	518
16	---	---	---	---	---	---	---	---	---	---	---	517
17	---	---	---	---	---	---	---	---	---	---	---	509
18	---	---	---	---	---	---	---	---	---	---	---	504
19	---	---	---	---	---	---	---	---	---	---	---	505
20	---	---	---	---	---	---	---	---	---	---	---	497
21	---	---	---	---	---	---	---	---	---	---	---	502
22	---	---	---	---	---	---	---	---	---	---	---	497
23	---	---	---	---	---	---	---	---	---	---	---	494
24	---	---	---	---	---	---	---	---	---	---	---	497
25	---	---	---	---	---	---	---	---	---	---	---	494
26	---	---	---	---	---	---	---	---	---	---	---	497
27	---	---	---	---	---	---	---	---	---	---	---	494
28	---	---	---	---	---	---	---	---	---	---	412	497
29	---	---	---	---	---	---	---	---	---	---	449	491
30	---	---	---	---	---	---	---	---	---	---	444	481
31	---	---	---	---	---	---	---	---	---	---	443	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	14927
MEAN	---	---	---	---	---	---	---	---	---	---	---	497.6
MAX	---	---	---	---	---	---	---	---	---	---	---	525
MIN	---	---	---	---	---	---	---	---	---	---	---	448
AC-FT	---	---	---	---	---	---	---	---	---	---	---	29610

PYRAMID AND WINNEMUCCA LAKES BASIN

10345490 GRAY CREEK NEAR FLORISTON, CA

LOCATION.—Lat 39°22'22", long 120°01'49", in NE $^1/_4$NE $^1/_4$ sec.36, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank, about 400 ft upstream from Truckee River, and about 1.6 mi southwest of Floriston.

DRAINAGE AREA.—17.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—November 2001 to September 2002.

GAGE.—Water-stage recorder. Elevation of gage is 5,420 ft above sea level, from topographic map.

REMARKS.—Records fair, including estimated daily discharges. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 116 ft^3/s, May 30, 2002, gage height, 2.79 ft, maximum gage height, 3.87 ft, backwater from ice, January 24, 2002; minimum, 5.7 ft^3/s, Jan. 25, 2002, gage height, 2.01 ft.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft^3/s, or maximum:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	1815	116	2.79

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e7.4	7.8	e7.4	e8.0	16	21	57	19	11	8.3
2	---	---	e7.8	8.9	7.2	e8.0	16	20	50	19	11	8.3
3	---	---	e8.5	9.2	7.3	e7.4	18	22	43	18	11	8.3
4	---	---	e8.0	e8.2	e7.1	e7.4	20	24	48	18	11	8.3
5	---	---	e7.8	8.1	6.9	8.1	18	28	56	18	11	8.3
6	---	---	e7.9	9.9	6.7	9.6	17	33	61	18	11	8.5
7	---	---	7.9	10	7.0	e9.8	17	34	62	18	10	8.6
8	---	---	e7.5	9.6	7.0	e8.3	18	32	58	17	10	8.5
9	---	---	7.4	9.0	7.6	e7.4	18	32	52	17	10	8.3
10	---	---	7.9	8.6	7.5	8.5	18	31	44	16	9.8	8.1
11	---	---	7.9	e8.0	7.0	8.7	19	29	41	16	9.7	8.0
12	---	---	7.9	8.1	7.1	9.2	20	32	37	16	9.5	8.0
13	---	---	7.3	e8.0	7.2	e8.5	22	36	36	16	9.4	7.9
14	---	---	e7.3	e8.0	7.3	e8.2	30	40	34	15	9.3	7.9
15	---	---	e8.2	e8.0	7.4	e7.8	40	46	32	15	9.3	7.8
16	---	---	e8.2	e7.8	7.4	e7.8	29	50	28	14	9.1	7.9
17	---	---	e7.5	e8.0	7.4	e7.7	26	55	26	15	9.0	7.9
18	---	---	e7.3	e7.8	7.4	e7.9	24	49	26	e16	9.1	7.9
19	---	---	7.1	e7.8	7.5	e8.0	22	57	26	14	9.0	7.8
20	---	---	7.4	e7.8	8.0	8.3	21	41	26	14	9.0	7.8
21	---	---	7.2	e7.6	8.2	8.6	20	33	25	13	9.1	7.8
22	---	---	7.3	e7.4	8.6	9.1	21	27	25	13	9.1	7.7
23	---	---	7.9	e7.0	9.0	9.6	23	23	24	13	9.0	7.7
24	---	---	e7.7	e7.0	8.6	9.4	24	24	24	12	8.9	7.6
25	---	---	e7.5	e7.0	9.4	9.2	26	28	23	12	8.8	7.6
26	---	---	e7.3	6.9	9.4	9.4	27	32	22	12	8.7	7.6
27	---	---	7.2	7.1	8.5	9.9	24	32	21	12	8.7	7.6
28	---	e7.3	7.4	e7.2	e8.2	11	23	39	20	12	8.7	7.7
29	---	7.2	7.5	e7.2	---	12	24	56	19	11	8.6	7.8
30	---	e7.3	7.7	e7.2	---	15	22	68	20	11	8.5	7.8
31	---	---	7.7	e7.2	---	16	---	59	---	11	8.4	---
TOTAL	---	---	236.6	247.4	215.3	283.8	663	1133	1066	461	294.7	239.3
MEAN	---	---	7.632	7.981	7.689	9.155	22.10	36.55	35.53	14.87	9.506	7.977
MAX	---	---	8.5	10	9.4	16	40	68	62	19	11	8.6
MIN	---	---	7.1	6.9	6.7	7.4	16	20	19	11	8.4	7.6
AC-FT	---	---	469	491	427	563	1320	2250	2110	914	585	475

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 2001 to September 2002.
WATER TEMPERATURE: December 2001 to September 2002.
SPECIFIC CONDUCTANCE: December 2001 to September 2002.
PH: December 2001 to September 2002.
TURBIDITY: December 2001 to September 2002.
SEDIMENT: November 2001 to September 2002.

PERIOD OF DAILY RECORD.—December 2001 to September 2002.
WATER TEMPERATURE: December 2001 to September 2002.
SPECIFIC CONDUCTANCE: December 2001 to September 2002.
PH: December 2001 to September 2002.
TURBIDITY: December 2001 to September 2002.

INSTRUMENTATION.—Water-quality monitor since December 2001.

REMARKS.—Water temperature records rated excellent. Specific conductance, pH, and turbidity records rated good. Interruptions in record due to malfunction of recording equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURE: Maximum recorded, 21.5°C, July 10, 2002; minimum recorded, 0.0°C, several days in December 2001 and many days in 2002.
SPECIFIC CONDUCTANCE: Maximum recorded, 215 microsiemens, January 16, 2002; minimum recorded, 76 microsiemens, May 29, 2002.
PH: Maximum recorded, 8.7 standard units, March 26, 27, 2002; minimum recorded, 7.7 standard units, May 19, 2002.
TURBIDITY: Maximum recorded, 3400 NTU, Apr. 14, 2002; minimum recorded, 0.0 NTU, September 11, 14, 15, 21, 2002.

EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURE: Maximum recorded, 21.5°C, July 10; minimum recorded, 0.0°C, many days.
SPECIFIC CONDUCTANCE: Maximum recorded, 215 microsiemens, January 16; minimum recorded, 76 microsiemens, May 29.
PH: Maximum recorded, 8.7 standard units, MarchJanuary 26, 27; minimum recorded, 7.7 standard units, May 19.
TURBIDITY: Maximum recorded, 3400 NTU, Apr. 14; minimum recorded, 0.0 NTU, September 11, 14, 15, 21.

WATER TEMPERATURE, DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	4.5	2.0	1.0	0.0	2.0	0.0
2	---	---	---	---	---	---	4.5	2.5	1.0	0.0	2.0	0.0
3	---	---	---	---	---	---	3.0	0.0	1.0	0.0	3.5	0.0
4	---	---	---	---	---	---	1.0	0.0	0.5	0.0	6.0	0.0
5	---	---	---	---	---	---	4.0	0.0	1.0	0.0	7.0	0.5
6	---	---	---	---	---	---	5.0	2.5	1.5	0.0	4.5	0.0
7	---	---	---	---	2.0	0.0	5.0	2.0	2.0	1.0	4.5	0.0
8	---	---	---	---	3.0	0.0	4.5	1.5	2.0	0.0	2.0	0.0
9	---	---	---	---	2.5	0.5	4.5	1.5	1.5	0.0	5.0	0.0
10	---	---	---	---	1.5	0.0	2.5	0.0	2.0	0.0	4.5	1.0
11	---	---	---	---	1.5	0.0	3.0	0.0	3.0	0.5	8.0	1.0
12	---	---	---	---	1.0	0.0	3.0	0.0	3.5	1.0	6.0	1.5
13	---	---	---	---	3.5	0.5	0.0	0.0	3.0	1.0	3.5	0.0
14	---	---	---	---	1.5	0.0	0.0	0.0	4.0	1.5	4.0	0.0
15	---	---	---	---	0.0	0.0	0.0	0.0	3.5	0.5	0.0	0.0
16	---	---	---	---	0.0	0.0	0.0	0.0	4.5	1.0	1.0	0.0
17	---	---	---	---	2.0	0.0	0.0	0.0	3.0	0.5	3.5	0.0
18	---	---	---	---	0.5	0.0	0.0	0.0	4.0	1.0	2.0	0.0
19	---	---	---	---	2.5	0.0	0.0	0.0	4.5	1.5	7.0	0.0
20	---	---	---	---	2.0	0.0	0.0	0.0	5.5	2.0	8.5	0.5
21	---	---	---	---	1.5	0.5	0.0	0.0	6.0	1.0	9.0	1.5
22	---	---	---	---	2.5	0.5	0.0	0.0	6.5	1.5	9.0	1.5
23	---	---	---	---	2.0	0.0	0.0	0.0	4.5	1.5	6.0	1.5
24	---	---	---	---	0.0	0.0	0.0	0.0	5.5	0.0	7.5	1.5
25	---	---	---	---	0.0	0.0	1.5	0.0	5.0	0.0	8.0	0.5
26	---	---	---	---	3.5	0.0	1.5	0.5	6.0	0.0	9.5	1.0
27	---	---	---	---	3.5	2.0	2.0	0.0	6.0	0.5	10.0	0.5
28	---	---	---	---	3.0	1.5	0.0	0.0	5.5	0.0	10.5	1.5
29	---	---	---	---	4.5	2.0	0.0	0.0	---	---	10.5	2.0
30	---	---	---	---	4.0	2.5	0.0	0.0	---	---	10.5	1.5
31	---	---	---	---	4.0	2.5	0.0	0.0	---	---	11.0	1.5
MONTH	---	---	---	---	---	---	5.0	0.0	6.5	0.0	11.0	0.0

10345490 GRAY CREEK NEAR FLORISTON, CA--Continued

WATER TEMPERATURE, DEGREES C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	2.0	7.0	1.5	11.0	5.5	19.0	7.5	20.5	10.5	18.0	9.5
2	11.5	2.5	11.5	2.0	13.0	3.5	19.5	9.5	20.5	11.0	19.0	9.5
3	14.0	3.0	13.0	3.5	13.5	5.0	18.5	9.0	20.0	10.5	18.0	9.5
4	11.5	3.5	12.0	3.5	15.5	5.5	18.0	7.5	18.5	9.5	17.0	10.0
5	9.0	3.0	13.0	3.0	16.0	6.0	18.5	8.0	18.0	9.0	16.5	9.5
6	10.0	2.5	13.0	3.0	15.5	6.0	19.0	8.0	17.5	7.5	16.0	8.5
7	11.0	3.0	12.0	3.5	15.0	5.0	19.5	10.0	17.5	7.0	13.0	5.5
8	11.0	3.5	10.5	1.5	13.0	5.0	18.5	8.0	17.5	7.0	14.0	4.5
9	7.0	4.0	11.5	2.5	11.5	3.0	20.0	9.0	18.0	7.5	15.0	5.5
10	10.5	3.5	8.5	3.0	13.0	3.5	21.5	10.0	19.5	8.5	15.5	5.5
11	11.5	4.5	12.0	2.0	15.0	4.5	20.5	11.0	19.5	9.0	16.0	6.5
12	12.0	3.0	13.0	2.5	16.0	5.5	18.5	12.5	20.0	10.0	16.5	7.0
13	12.5	3.0	12.0	4.0	16.5	6.5	20.0	11.5	20.5	10.5	16.5	7.5
14	12.0	4.5	13.0	4.0	16.0	5.5	20.5	11.5	21.0	11.5	16.0	7.5
15	5.0	1.5	13.0	4.0	15.5	4.5	20.5	11.0	20.5	11.0	16.5	9.0
16	4.0	1.0	13.5	3.5	15.5	5.0	20.5	10.5	20.5	11.0	14.5	6.5
17	5.0	0.5	14.0	4.5	16.5	6.5	16.0	11.0	18.5	9.5	14.0	7.0
18	4.5	0.5	13.5	5.0	17.0	8.0	14.5	10.0	19.0	8.0	14.5	6.5
19	7.0	1.0	11.5	5.0	16.5	7.0	19.5	9.5	17.5	7.5	14.5	5.5
20	7.5	0.5	6.0	3.0	17.0	7.5	21.0	10.5	16.5	7.5	15.5	6.5
21	11.5	1.5	7.5	2.0	15.0	7.5	19.0	11.0	16.5	6.0	15.5	7.0
22	12.0	2.0	11.0	1.0	16.0	7.0	19.0	9.5	16.5	7.5	16.0	7.0
23	12.5	2.0	12.5	2.0	17.0	7.5	19.0	8.0	16.5	7.0	15.5	7.0
24	11.0	3.0	13.5	3.0	17.0	6.5	19.5	9.5	17.0	6.5	15.0	6.5
25	11.5	4.0	13.5	4.5	17.0	8.0	18.5	8.0	17.0	6.5	14.0	5.5
26	7.5	4.5	13.5	3.5	18.5	9.0	19.0	8.0	17.0	7.0	13.5	5.0
27	9.5	3.0	12.5	4.0	18.0	7.5	20.0	10.0	17.0	7.5	14.0	7.5
28	9.0	1.5	14.5	5.0	18.0	8.0	20.0	10.0	17.5	8.5	11.5	5.5
29	6.5	1.5	15.5	5.0	18.5	8.5	20.5	9.5	16.5	8.5	11.5	5.0
30	5.5	1.5	15.0	5.5	18.5	7.5	19.5	11.0	17.0	9.0	11.0	4.5
31	---	---	14.5	5.5	---	---	20.5	10.5	18.5	9.5	---	---
MONTH	14.0	0.5	15.5	1.0	18.5	3.0	21.5	7.5	21.0	6.0	19.0	4.5

10345490 GRAY CREEK NEAR FLORISTON, CA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEG. C, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	188	183	174	166	193	165
2	---	---	---	---	---	---	189	173	174	162	203	171
3	---	---	---	---	---	---	193	186	172	161	194	163
4	---	---	---	---	---	---	205	179	171	161	171	157
5	---	---	---	---	---	---	191	183	177	164	171	165
6	---	---	---	---	---	---	184	177	178	172	168	154
7	---	---	---	---	182	144	196	183	177	157	168	161
8	---	---	---	---	184	172	198	196	179	166	174	163
9	---	---	---	---	177	171	198	193	179	167	177	165
10	---	---	---	---	176	162	198	187	180	166	173	169
11	---	---	---	---	179	168	192	174	178	175	174	171
12	---	---	---	---	180	168	190	185	180	175	175	170
13	---	---	---	---	170	129	203	177	180	173	178	171
14	---	---	---	---	137	112	199	177	182	176	182	172
15	---	---	---	---	136	123	207	193	182	174	195	166
16	---	---	---	---	136	130	215	197	184	178	188	168
17	---	---	---	---	146	134	200	181	181	176	180	170
18	---	---	---	---	151	144	202	184	178	174	190	165
19	---	---	---	---	152	146	192	182	177	157	184	170
20	---	---	---	---	153	147	192	177	165	155	179	175
21	---	---	---	---	161	150	182	177	163	153	181	176
22	---	---	---	---	172	161	186	180	157	152	183	177
23	---	---	---	---	172	160	191	181	176	154	184	177
24	---	---	---	---	174	164	185	177	178	170	185	181
25	---	---	---	---	175	170	180	162	180	156	186	181
26	---	---	---	---	181	161	174	155	179	138	188	183
27	---	---	---	---	166	159	159	152	178	176	187	184
28	---	---	---	---	176	163	160	153	188	172	188	172
29	---	---	---	---	181	175	166	160	---	---	172	153
30	---	---	---	---	184	176	171	165	---	---	155	122
31	---	---	---	---	186	176	173	157	---	---	147	127
MONTH	---	---	---	---	---	---	215	152	188	138	203	122
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	143	113	130	121	91	83	105	101	133	129	---	---
2	171	102	131	128	94	85	105	101	132	129	---	---
3	167	120	136	122	95	89	106	103	133	130	---	---
4	162	131	123	111	97	86	107	103	133	130	---	---
5	155	138	136	111	95	82	108	104	132	129	138	---
6	154	143	133	117	93	84	108	105	132	128	137	133
7	161	147	126	104	96	86	109	105	132	127	135	132
8	162	138	113	103	97	90	110	106	133	130	132	130
9	152	139	107	100	97	92	112	107	133	129	132	129
10	154	141	111	100	97	91	113	108	133	130	132	129
11	147	127	118	109	94	88	115	109	134	130	132	127
12	144	128	118	99	93	86	112	110	135	132	132	130
13	149	123	111	95	92	86	113	110	136	133	132	129
14	143	120	107	96	93	87	116	111	137	134	132	131
15	139	123	106	95	93	89	116	112	138	134	132	130
16	148	139	108	88	93	90	117	113	138	135	135	128
17	154	147	103	90	94	90	116	114	138	135	135	133
18	157	154	95	84	94	90	---	---	139	135	134	133
19	164	157	98	85	93	90	123	120	139	135	134	133
20	170	164	95	90	95	91	125	121	138	134	133	132
21	170	143	99	94	95	92	125	122	137	132	136	130
22	154	134	102	99	96	92	126	122	136	133	136	134
23	136	110	102	97	98	95	127	122	136	132	135	134
24	118	109	103	91	99	96	129	125	138	133	134	133
25	115	107	100	84	100	96	128	125	139	135	133	127
26	112	104	93	82	102	97	129	126	139	134	138	127
27	112	104	92	81	102	99	130	126	138	---	139	138
28	117	111	91	79	103	100	131	127	---	---	139	136
29	123	113	89	76	102	101	132	128	---	---	138	137
30	123	119	88	78	103	100	132	129	---	---	138	137
31	---	---	86	81	---	---	132	129	---	---	---	---
MONTH	171	102	136	76	103	82	---	---	---	---	---	---

10345490 GRAY CREEK NEAR FLORISTON, CA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	8.3	8.2	8.3	8.2	8.5	8.4
2	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.4
3	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.4	8.4
4	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.4
5	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.4
6	---	---	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.4
7	---	---	---	---	8.3	8.3	8.3	8.2	8.4	8.3	8.5	8.4
8	---	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3	8.5	8.4
9	---	---	---	---	8.4	8.3	8.3	8.3	8.3	8.3	8.5	8.4
10	---	---	---	---	8.4	8.3	8.3	8.2	8.3	8.3	8.5	8.4
11	---	---	---	---	8.4	8.3	8.3	8.2	8.4	8.3	8.6	8.4
12	---	---	---	---	8.3	8.3	8.3	8.2	8.4	8.3	8.6	8.4
13	---	---	---	---	8.4	8.0	8.3	8.2	8.4	8.3	8.5	8.4
14	---	---	---	---	8.2	8.2	8.3	8.2	8.4	8.3	8.5	8.4
15	---	---	---	---	8.2	8.2	8.3	8.3	8.4	8.3	8.5	8.4
16	---	---	---	---	8.2	8.1	8.3	8.3	8.4	8.3	8.5	8.4
17	---	---	---	---	8.2	8.2	8.3	8.2	8.4	8.3	8.5	8.4
18	---	---	---	---	8.2	8.2	8.3	8.2	8.4	8.3	8.5	8.4
19	---	---	---	---	8.2	8.2	8.3	8.2	8.4	8.3	8.6	8.4
20	---	---	---	---	8.2	8.2	8.3	8.2	8.4	8.3	8.6	8.4
21	---	---	---	---	8.2	8.2	8.3	8.2	8.5	8.3	8.6	8.4
22	---	---	---	---	8.2	8.2	8.3	8.2	8.5	8.3	8.6	8.4
23	---	---	---	---	8.2	8.2	8.3	8.2	8.5	8.4	8.6	8.4
24	---	---	---	---	8.2	8.2	8.2	8.2	8.5	8.4	8.6	8.4
25	---	---	---	---	8.2	8.2	8.3	8.2	8.5	8.4	8.6	8.4
26	---	---	---	---	8.2	8.2	8.3	8.3	8.5	8.3	8.7	8.4
27	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.4	8.7	8.4
28	---	---	---	---	8.3	8.2	8.3	8.3	8.5	8.3	8.6	8.2
29	---	---	---	---	8.3	8.2	8.3	8.2	---	---	8.4	8.1
30	---	---	---	---	8.3	8.2	8.2	8.2	---	---	8.4	8.1
31	---	---	---	---	8.3	8.2	8.3	8.2	---	---	8.3	8.1
MONTH	---	---	---	---	---	---	8.3	8.2	8.5	8.2	8.7	8.1
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.1	8.3	8.2	7.9	7.8	8.1	8.0	8.3	8.1	8.3	8.2
2	8.3	8.1	8.4	8.2	7.9	7.8	8.1	8.0	8.3	8.1	8.4	8.2
3	8.3	8.1	8.4	8.2	8.0	7.8	8.1	8.0	8.3	8.1	8.4	8.2
4	8.3	8.1	8.4	8.2	8.0	7.8	8.1	8.0	8.2	8.1	8.4	8.2
5	8.2	8.1	8.4	8.2	8.0	7.8	8.1	8.0	8.2	8.1	8.3	8.2
6	8.3	8.1	8.3	8.2	8.0	7.8	8.1	8.0	8.2	8.1	8.3	8.2
7	8.3	8.1	8.3	8.2	7.9	7.8	8.1	8.0	8.3	8.1	8.3	8.2
8	8.3	8.1	8.3	8.1	8.0	7.8	8.2	8.0	8.3	8.1	8.3	8.2
9	8.2	8.1	8.3	8.2	7.9	7.8	8.2	8.0	8.3	8.1	8.3	8.2
10	8.3	8.2	8.3	8.2	8.0	7.9	8.2	8.0	8.3	8.1	8.3	8.2
11	8.3	8.1	8.3	8.2	8.0	7.9	8.2	8.1	8.3	8.2	8.3	8.2
12	8.3	8.1	8.3	8.2	8.0	7.9	8.2	8.1	8.3	8.2	8.3	8.2
13	8.3	8.1	8.3	8.1	8.1	7.9	8.2	8.1	8.3	8.2	8.3	8.2
14	8.3	8.0	8.2	8.1	8.0	7.9	8.3	8.1	8.3	8.2	8.3	8.2
15	8.1	7.9	8.2	7.9	8.0	7.9	8.3	8.1	8.3	8.2	8.3	8.2
16	8.1	8.0	8.1	7.8	8.0	7.9	8.3	8.1	8.3	8.2	8.3	8.2
17	8.1	8.0	8.1	7.8	8.0	7.9	8.2	8.1	8.3	8.2	8.3	8.2
18	8.2	8.1	7.9	7.8	8.0	7.9	8.2	8.0	8.3	8.2	8.3	8.2
19	8.3	8.1	7.9	7.7	8.1	7.9	8.3	8.0	8.3	8.2	8.3	8.2
20	8.3	8.2	7.9	7.9	8.1	7.9	8.3	8.1	8.3	8.2	8.3	8.2
21	8.3	8.2	8.0	7.9	8.0	7.9	8.2	8.1	8.3	8.2	8.4	8.2
22	8.4	8.2	8.0	7.9	8.0	7.9	8.2	8.1	8.3	8.2	8.4	8.2
23	8.4	8.2	8.0	7.9	8.1	7.9	8.2	8.1	8.3	8.2	8.4	8.2
24	8.3	8.2	8.1	7.9	8.1	7.9	8.2	8.1	8.3	8.2	8.4	8.2
25	8.3	8.2	8.0	7.9	8.1	8.0	8.2	8.1	8.3	8.2	8.4	8.2
26	8.3	8.2	8.0	7.9	8.1	7.9	8.2	8.1	8.3	8.2	8.4	8.2
27	8.3	8.2	8.0	7.9	8.1	8.0	8.3	8.1	8.4	8.2	8.4	8.2
28	8.3	8.2	8.0	7.8	8.1	8.0	8.2	8.1	8.4	8.2	8.3	8.2
29	8.3	8.2	8.0	7.8	8.1	8.0	8.3	8.1	8.4	8.2	8.3	8.2
30	8.3	8.2	8.0	7.8	8.1	8.0	8.2	8.1	8.3	8.2	8.3	8.2
31	---	---	8.0	7.8	---	---	8.3	8.1	8.4	8.2	---	---
MONTH	8.4	7.9	8.4	7.7	8.1	7.8	8.3	8.0	8.4	8.1	8.4	8.2

10345490 GRAY CREEK NEAR FLORISTON, CA--Continued

TURBIDITY (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	21	6.0	---	---	280	2.1
2	---	---	---	---	---	---	98	0.1	---	---	210	1.6
3	---	---	---	---	---	---	44	9.0	---	---	140	1.8
4	---	---	---	---	---	---	97	2.8	---	---	31	4.2
5	---	---	---	---	---	---	22	6.3	---	---	110	5.7
6	---	---	---	---	---	---	42	11	---	---	150	6.3
7	---	---	---	---	64	7.5	42	11	29	2.8	42	6.5
8	---	---	---	---	73	4.6	20	7.6	22	2.9	210	2.0
9	---	---	---	---	25	6.6	29	5.4	62	3.8	68	2.4
10	---	---	---	---	29	6.0	22	4.6	29	3.2	98	4.6
11	---	---	---	---	28	4.4	52	4.0	12	3.1	31	3.8
12	---	---	---	---	52	3.4	11	2.6	12	2.9	23	6.8
13	---	---	---	---	19	4.9	32	1.7	33	2.9	50	5.1
14	---	---	---	---	34	1.4	13	1.3	32	3.9	42	3.4
15	---	---	---	---	18	0.6	6.8	0.7	19	3.4	85	1.3
16	---	---	---	---	28	1.3	8.3	0.7	24	3.6	83	1.9
17	---	---	---	---	80	7.7	13	2.3	50	3.0	37	1.7
18	---	---	---	---	39	3.8	11	1.5	38	2.9	150	0.9
19	---	---	---	---	18	5.1	18	2.3	31	3.3	65	2.3
20	---	---	---	---	16	4.1	13	2.6	47	7.0	76	4.9
21	---	---	---	---	21	3.6	19	4.5	25	6.4	82	4.8
22	---	---	---	---	14	2.6	7.8	1.9	48	5.3	75	6.5
23	---	---	---	---	12	3.7	8.5	1.9	62	7.7	25	6.4
24	---	---	---	---	19	1.4	8.3	2.1	120	5.4	30	5.2
25	---	---	---	---	24	1.4	---	---	22	4.3	18	4.4
26	---	---	---	---	71	7.4	---	---	24	4.2	13	4.2
27	---	---	---	---	22	5.3	---	---	170	5.0	31	4.1
28	---	---	---	---	98	5.3	---	---	40	3.6	57	6.7
29	---	---	---	---	22	5.3	---	---	---	---	150	12
30	---	---	---	---	49	4.1	8.4	2.3	---	---	160	21
31	---	---	---	---	46	8.9	16	1.8	---	---	190	25
MONTH	---	---	---	---	---	---	---	---	---	---	280	0.9

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	280	25	50	3.5	94	30	11	3.5	4.6	0.9	7.6	0.6
2	440	32	21	3.2	79	20	11	3.3	37	1.0	5.6	0.3
3	930	6.5	32	3.2	230	19	19	3.4	7.6	1.1	8.1	0.3
4	550	69	40	5.0	74	14	14	3.1	6.9	0.5	7.4	0.7
5	160	38	93	5.9	110	16	23	2.6	13	0.9	7.5	0.6
6	60	25	110	12	660	26	9.8	2.5	16	0.9	15	0.6
7	49	18	72	15	260	21	11	2.7	6.7	0.9	6.9	0.2
8	60	17	40	12	180	24	10	2.4	6.6	0.6	7.5	0.1
9	43	15	290	9.1	88	14	16	1.5	4.8	0.8	19	0.3
10	33	11	33	8.5	42	12	10	1.5	7.6	1.2	2.9	0.1
11	87	12	22	4.5	34	11	13	2.4	12	1.2	6.2	0.0
12	79	16	91	6.4	22	8.5	6.8	1.7	17	1.4	24	0.3
13	440	15	220	10	29	7.9	8.8	2.1	6.1	1.3	4.8	0.2
14	3400	34	---	---	25	7.6	17	1.9	9.7	1.1	8.1	0.0
15	---	---	---	---	18	7.7	6.0	1.6	7.3	1.1	14	0.0
16	---	---	---	---	16	7.0	12	1.7	9.9	1.1	9.8	0.1
17	---	---	---	---	19	7.2	9.7	0.7	7.1	0.7	6.7	0.1
18	---	---	---	---	18	7.2	---	---	10	0.6	13	0.1
19	---	---	---	---	16	7.5	180	2.0	7.3	0.6	4.8	0.1
20	31	8.0	130	15	20	6.1	10	2.0	9.5	0.9	16	0.1
21	32	5.7	26	10	18	7.3	8.6	1.5	6.9	0.5	8.5	0.0
22	29	6.7	19	7.6	19	5.5	7.3	1.3	7.5	0.5	7.9	0.3
23	40	6.8	220	6.0	32	5.7	11	1.7	4.1	0.5	6.0	0.1
24	56	7.6	52	8.1	16	4.5	6.9	1.6	7.1	0.5	6.1	0.0
25	47	8.3	77	7.1	31	5.5	9.2	1.4	6.3	0.1	4.7	0.2
26	36	10	190	9.8	19	5.6	8.5	1.2	15	0.7	8.7	0.1
27	26	7.4	110	11	17	4.7	7.9	1.3	12	0.5	14	0.1
28	20	4.9	110	11	17	4.3	11	1.6	8.0	0.5	4.0	0.1
29	21	5.5	400	17	14	3.8	12	1.7	6.9	0.6	7.2	0.2
30	16	4.2	590	24	16	3.5	12	1.4	5.6	0.4	14	0.1
31	---	---	220	35	---	---	16	1.4	5.9	0.5	---	---
MONTH	---	---	---	---	660	3.5	---	---	37	0.1	24	0.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV						
27...	1410	e7.8	0.0	102	e2.1	--
DEC						
06...	1720	e7.9	3.0	100	e2.1	--
JAN						
03...	1520	9.2	1.5	70	1.7	--
25...	1115	e7.0	0.0	26	e.49	--
FEB						
28...	1200	e8.2	4.0	112	e2.5	--
MAR						
28...	1340	10	10.0	34	.92	--
APR						
19...	1310	21	3.5	46	2.6	--
MAY						
07...	1835	33	9.0	286	25.5	--
16...	1740	60	12.5	596	96.6	28
16...	1940	66	9.5	864	154	39
19...	1935	49	7.5	314	41.5	20
31...	1005	35	7.5	245	23.2	--
JUN						
12...	1450	30	15.0	21	1.7	--
JUL						
16...	1255	15	18.0	6.0	.24	--
AUG						
07...	1400	11	16.5	4.0	.12	--
27...	1305	8.9	15.0	3.0	.07	--

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DEPTH BOTTOM AT SAMPLE LOC-ATION, (FEET) (81903)	SAM-PLING DEPTH (FEET) (00003)	TUR-BID-ITY (NTU) (00076)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)
JUL								
16...*	1251	1.50	.70	4.0	8.2	120	17.9	.50
16...*	1252	1.50	.70	4.0	8.2	120	17.9	1.50
16...*	1253	1.60	.70	4.0	8.2	120	17.9	2.50
16...*	1254	1.50	.70	4.0	8.2	120	18.0	3.50
16...*	1255	1.50	.70	4.0	8.2	120	18.0	4.50

* Instantaneous discharge at time of cross-sectional measurement: 15 ft^3/s.
e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE $^1/_4$ NE $^1/_4$ sec.12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank, 0.5 mi upstream from Mystic Canyon, 0.7 mi downstream from Farad Powerplant, 2.5 mi north of Floriston, 3.5 mi upstream from California-Nevada State line and at mi 81.89 upstream from Marble Bluff Dam.

DRAINAGE AREA.--932 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca," March to October 1890, "at or near Nevada-California State Line," September 1899 to August 1912, and as "at Iceland," August 1912 to December 1937.

CHEMICAL DATA: Water years 1951–61, 1964–81. Published as Truckee River at Floriston (station 10345900) January 1964 to September 1971.

BIOLOGICAL DATA: Water years 1975–77.

SPECIFIC CONDUCTANCE: Water years 1964–80, 1993–98.

WATER TEMPERATURE: Water years 1964–81, 1993–98.

SUSPENDED SEDIMENT: Water years 1974, 1978.

REVISED RECORDS.--WSP 1714: Drainage area. WDR CA-88-3: 1906-07 (monthly runoff).

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft above NGVD of 1929 (U.S. Bureau of Reclamation benchmark). See WSP 2127 for history of changes prior to August 26, 1957.

REMARKS.--Records good. Flow regulated by Lake Tahoe and Donner, Martis Creek, and Independence Lakes, and Prosser Creek, Stampede, and Boca Reservoirs (stations 10337000, 10338400, 10339380, 10342900, 10340300, 10344300, and 10344490), and by several powerplants. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,500 ft^3/s, November 21, 1950, gage height, 14.5 ft, present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 37 ft^3/s, September 15, 1933.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	344	316	330	e285	402	708	965	1640	384	468	447
2	483	339	393	301	284	384	798	932	1530	520	466	447
3	481	335	312	328	284	372	869	966	1370	550	465	444
4	479	324	280	301	280	377	989	1040	1320	557	460	450
5	475	323	319	293	275	400	1070	1100	1290	566	451	490
6	474	319	320	364	281	486	996	1140	1220	563	391	496
7	470	322	320	426	300	554	966	1130	1170	563	395	494
8	468	327	279	339	331	485	990	1080	1110	577	392	485
9	465	328	226	297	320	456	1120	1040	1010	571	399	494
10	410	334	226	282	318	446	1070	1010	874	569	398	495
11	395	342	297	286	340	417	1210	942	757	580	398	496
12	373	336	322	279	344	413	1270	953	704	580	397	502
13	370	339	322	282	348	424	1330	1010	693	568	388	499
14	366	317	336	291	350	391	1430	1050	702	565	388	510
15	364	325	320	281	355	343	1550	1040	673	568	398	502
16	360	329	320	296	350	329	1200	1090	629	566	395	502
17	359	327	340	301	354	328	1120	1170	627	569	393	499
18	361	320	319	279	333	334	1070	1240	642	587	392	494
19	356	327	315	277	339	336	921	1200	520	573	390	496
20	353	325	332	273	417	344	913	1080	450	567	388	491
21	348	330	327	279	398	342	892	975	473	562	398	495
22	351	474	321	289	401	361	901	989	463	555	395	492
23	359	329	321	291	448	411	1010	1040	474	553	397	490
24	354	424	316	298	423	411	1100	1010	463	556	394	492
25	352	430	332	293	408	397	1190	1030	481	554	402	491
26	326	357	339	294	406	392	1320	1050	501	566	403	493
27	319	333	341	290	412	409	1180	1040	489	563	404	491
28	316	319	349	284	408	452	1260	1040	473	561	410	495
29	326	327	320	295	---	512	1270	1060	452	561	451	490
30	338	325	341	292	---	578	1180	1150	446	561	445	483
31	363	---	366	e285	---	646	---	1560	---	550	446	---
TOTAL	12108	10230	9887	9296	9792	12932	32893	33122	23646	17285	12757	14645
MEAN	390.6	341.0	318.9	299.9	349.7	417.2	1096	1068	788.2	557.6	411.5	488.2
MAX	494	474	393	426	448	646	1550	1560	1640	587	468	510
MIN	316	317	226	273	275	328	708	932	446	384	388	444
AC-FT	24020	20290	19610	18440	19420	25650	65240	65700	46900	34280	25300	29050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	385.9	420.9	534.4	598.2	661.6	803.3	1273	1722	1267	659.5	512.9	469.0
MAX	982	2469	3596	6115	3254	4073	3887	5674	5214	2921	1084	1482
(WY)	1972	1984	1984	1997	1997	1986	1952	1952	1983	1983	1975	1983
MIN	51.0	55.6	80.4	77.7	85.3	142	369	349	142	53.9	53.9	47.3
(WY)	1978	1991	1991	1991	1933	1933	1977	1934	1931	1931	1931	1933

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1909 - 2002	
ANNUAL TOTAL	182936		198593			
ANNUAL MEAN	501.2		544.1		768.8	
HIGHEST ANNUAL MEAN					2443	1983
LOWEST ANNUAL MEAN					184	1931
HIGHEST DAILY MEAN	713	May 16	1640	Jun 1	13400	Dec 23 1955
LOWEST DAILY MEAN	226	Dec 9	226	Dec 9	37	Sep 15 1933
ANNUAL SEVEN-DAY MINIMUM	281	Dec 4	281	Dec 4	40	Sep 9 1933
MAXIMUM PEAK FLOW			1770	Apr 14	17500	Nov 21 1950
MAXIMUM PEAK STAGE			5.39	Apr 14	14.50	Nov 21 1950
ANNUAL RUNOFF (AC-FT)	362900		393900		557000	
10 PERCENT EXCEEDS	593		1070		1680	
50 PERCENT EXCEEDS	530		424		505	
90 PERCENT EXCEEDS	327		301		205	

e Estimated

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.— April 1999 to current year.
INSTRUMENTATION.—Recording-weighing gage.
EXTREMES FOR PERIOD OF RECORD.—Maximum daily precipitation, 1.97 in., January 24, 2000, December 2, 2001; no precipitation for many days in each year.
EXTREMES FOR CURRENT YEAR.—Maximum daily precipitation, 1.97 in., December 2; no precipitation for many days.

PRECIPITATION, TOTAL, INCHES , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	1.97	0.70	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
3	0.00	0.00	0.50	0.03	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.07	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.05	0.00	0.00	0.00	1.19	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.04	0.50	0.29	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.04	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.03	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
12	0.00	0.46	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.15	0.00	0.00
13	0.00	0.00	0.10	0.00	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.46	0.00	0.03	0.13	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.03	0.00	0.11	0.00	0.09	0.00	0.00	0.00	0.00	0.00
16	0.00	0.04	0.00	0.00	0.00	0.07	0.15	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.44	0.03	0.14	0.00	0.09	0.00	0.00	0.49	0.00	0.00
18	0.00	0.00	0.00	0.03	0.00	0.03	0.14	0.03	0.00	0.03	0.00	0.00
19	0.00	0.00	0.00	0.00	0.36	0.00	0.06	0.00	0.00	0.00	0.00	0.00
20	0.00	0.03	0.18	0.00	0.04	0.00	0.03	0.10	0.00	0.00	0.00	0.00
21	0.00	0.70	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.82	0.15	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00
23	0.00	0.00	0.05	0.00	0.03	0.14	0.00	0.06	0.00	0.04	0.00	0.00
24	0.00	1.27	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
26	0.00	0.03	0.00	0.32	0.00	0.00	0.22	0.09	0.03	0.00	0.00	0.00
27	0.00	0.00	0.00	0.16	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
28	0.00	0.18	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.23	0.07	0.00	---	0.03	0.60	0.00	0.00	0.00	0.00	0.00
30	0.40	0.00	0.26	0.03	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.03	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.40	4.10	4.87	1.55	1.27	2.55	1.59	0.46	0.07	0.71	0.00	0.00

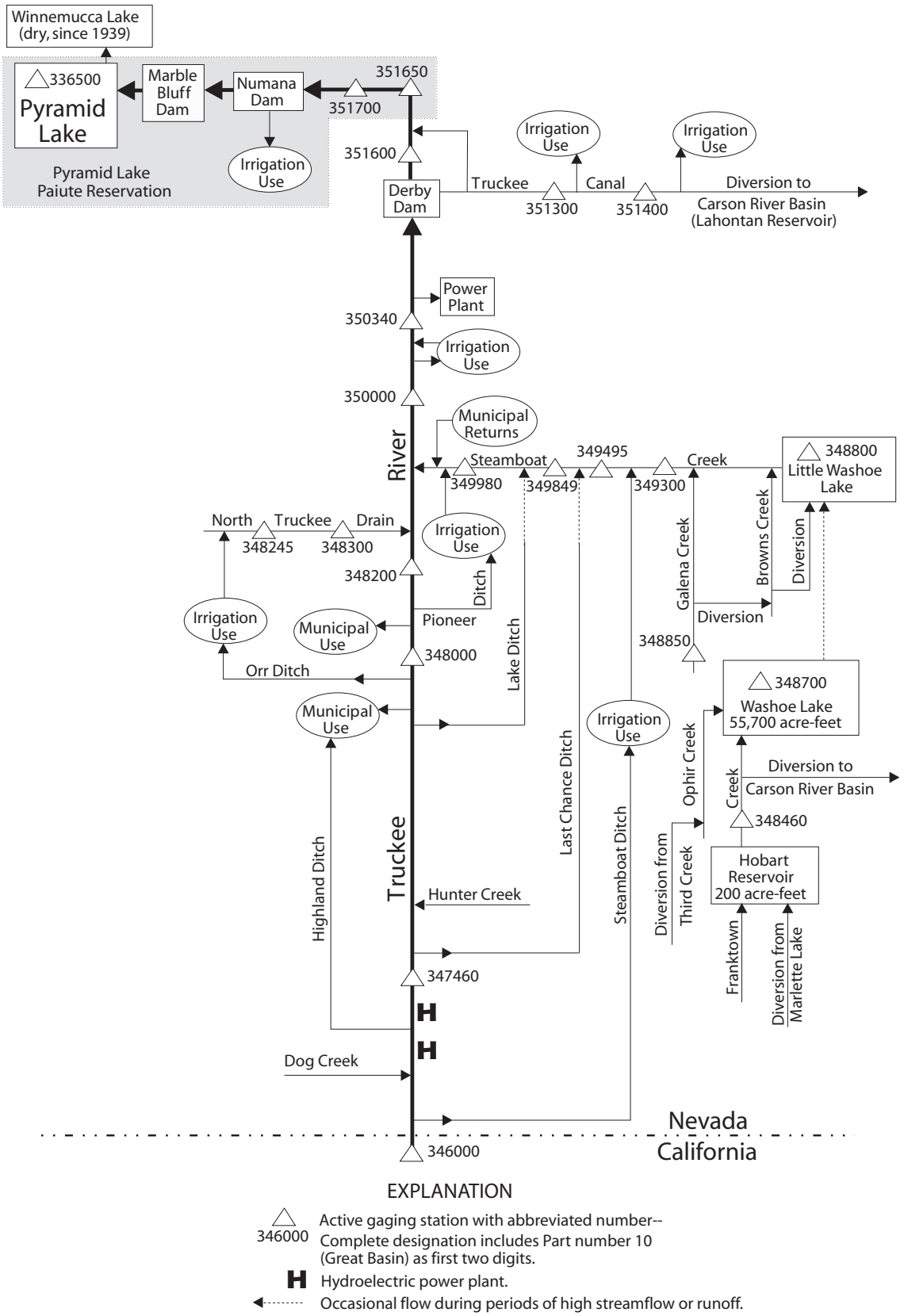


Figure 26. Schematic diagram of flow system and gaging stations in the Pyramid and Winnemucca Lakes basin downstream from station 346000.

PYRAMID AND WINNEMUCCA LAKES BASIN

10347460 TRUCKEE RIVER NEAR MOGUL, NV

LOCATION.--Lat 39°30'26", long 119°55'51", in SW $^1/_4$ SW $^1/_4$ sec.14 T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, on left bank, at bridge crossing,0.5 mi southwest of Mogul, and at mi 68.74, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,035 mi^2.

PERIOD OF RECORD.--February 1993 to September 1995, October 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,690 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 103403000, Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, and several power plants. Many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft^3/s, January 2, 1997, gage height, 15.85 ft; minimum daily, 2.4 ft^3/s, October 30, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,670 ft^3/s, April 15, gage height, 7.52 ft; minimum daily, 258 ft^3/s, August 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	391	369	398	364	385	665	939	1480	294	353	324
2	402	386	470	364	351	367	762	893	1380	393	333	330
3	397	377	412	405	345	356	829	890	1220	428	327	323
4	393	372	354	368	322	354	935	930	1150	443	322	307
5	390	369	362	364	327	376	1020	988	1130	449	314	356
6	389	366	382	390	322	437	942	1030	1070	449	271	358
7	384	362	381	513	344	570	907	1030	1030	446	258	359
8	382	373	351	424	385	486	915	984	987	462	260	354
9	386	368	296	365	367	449	1050	943	907	461	266	354
10	379	383	280	342	369	436	998	931	788	454	267	358
11	356	387	350	352	380	424	1110	861	658	466	267	361
12	344	384	377	342	393	403	1160	872	601	465	266	367
13	383	387	379	335	395	424	1220	917	580	455	263	366
14	402	368	395	350	403	400	1290	957	591	451	262	385
15	399	376	375	341	401	332	1480	933	562	497	267	381
16	397	372	384	337	402	328	1140	980	526	454	267	379
17	393	364	410	359	401	309	1070	1020	516	455	266	384
18	398	359	381	338	387	316	1040	1100	543	473	264	377
19	392	361	374	333	368	322	897	1090	450	479	264	376
20	390	366	379	349	419	327	888	979	356	455	263	374
21	384	363	387	333	408	330	870	882	361	455	269	374
22	387	508	371	335	392	338	865	875	355	452	271	373
23	395	397	376	338	432	389	961	936	363	447	276	371
24	393	433	368	362	421	406	1040	910	359	447	272	368
25	389	515	374	347	394	389	1110	901	355	438	287	370
26	368	419	388	351	383	382	1250	924	396	446	281	366
27	360	389	389	344	394	387	1110	919	385	444	296	365
28	345	377	395	340	392	418	1190	918	373	440	291	367
29	370	377	393	352	---	473	1210	922	351	436	328	365
30	371	379	378	340	---	533	1130	1010	332	431	328	360
31	408	---	422	338	---	605	---	1350	---	423	336	---
TOTAL	11909	11628	11702	11149	10661	12451	31054	29814	20155	13788	8855	10852
MEAN	384.2	387.6	377.5	359.6	380.8	401.6	1035	961.7	671.8	444.8	285.6	361.7
MAX	408	515	470	513	432	605	1480	1350	1480	497	353	385
MIN	344	359	280	333	322	309	665	861	332	294	258	307
AC-FT	23620	23060	23210	22110	21150	24700	61600	59140	39980	27350	17560	21520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	322.2	313.6	607.4	1170	971.8	1108	1190	1667	1312	683.7	448.2	392.4
MAX	565	487	2124	6233	3291	2313	1961	2939	2934	1537	763	602
(WY)	1999	1997	1997	1997	1997	1997	1998	1999	1998	1995	1995	1998
MIN	14.9	39.2	109	121	142	285	487	460	481	63.8	18.0	13.5
(WY)	1995	1994	1995	1994	1994	1994	2001	2001	2001	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	169857		184018			
ANNUAL MEAN	465.4		504.2		858.3	
HIGHEST ANNUAL MEAN					1707	1997
LOWEST ANNUAL MEAN					297	1994
HIGHEST DAILY MEAN	659	Mar 26	1480	Apr 15	15200	Jan 2 1997
LOWEST DAILY MEAN	280	Dec 10	258	Aug 7	2.4	Oct 30 1994
ANNUAL SEVEN-DAY MINIMUM	343	Dec 5	264	Aug 7	3.3	Oct 29 1994
MAXIMUM PEAK FLOW			1670	Apr 15	17500	Jan 2 1997
MAXIMUM PEAK STAGE			7.52	Apr 15	15.85	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	336900		365000		621800	
10 PERCENT EXCEEDS	553		979		2120	
50 PERCENT EXCEEDS	483		387		491	
90 PERCENT EXCEEDS	377		326		120	

PRECIPITATION RECORDS

PERIOD OF RECORD.— October 1998 to current year.

INSTRUMENTATION.—Recording-weighing gage since October 15, 1998.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily precipitation, 1.69 in., January 24, 2000; no precipitation most days.

EXTREMES FOR CURRENT YEAR.—Maximum daily precipitation, 1.50 in., December 2; no precipitation most days.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	1.50	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.09	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	---	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	---	0.50	0.15	0.00	0.00	0.00	0.00	0.00	0.00
8	0.02	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	---	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	---	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00
11	0.00	0.16	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.23	0.00	---	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.00
13	0.00	0.00	0.04	---	0.07	0.04	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.28	---	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.01	---	0.15	0.00	0.01	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.01	---	0.07	0.00	0.02	0.00	0.00	0.04	0.00	0.00
18	0.00	0.00	0.00	---	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00
20	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
21	0.00	0.26	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.60	0.01	0.00	0.00	0.02	0.00	0.07	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	1.07	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
26	0.00	0.00	0.00	0.25	0.00	0.00	0.10	0.00	0.13	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.06	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.07	0.00	0.01	---	0.00	0.49	0.00	0.00	0.00	0.00	0.00
30	0.25	0.00	0.02	0.00	---	0.00	0.10	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.27	2.46	2.03	---	0.84	0.87	0.87	0.21	0.15	0.08	0.00	0.00

PYRAMID AND WINNEMUCCA LAKES BASIN

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'49", long 119°47'41", in SW $^1/_4$ NE $^1/_4$ sec.12, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, adjacent to Scott Island, 700 ft downstream from Kirman Avenue bridge, 0.4 mi upstream from Kietzke Lane bridge, 5.4 mi upstream from Steamboat Creek, and at mi 59.52 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 mi^2, approximately.

PERIOD OF RECORD.--July 1906 to September 1921, June 1925 to September 1926, January 1930 to December 1934, January to December 1943, January 1946 to current year.

REVISED RECORDS.--WDR NV-97-1: 1996.

GAGE.--Water-stage recorder. Datum of gage is 4,444.53 ft above NGVD of 1929. July 1906 to September 1946, staff gages at sites 0.5 mi to 1.0 mi upstream at different datums. January 1946 to July 1999 at site 0.5 mi downstream, at datum 12.56 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, and several power plants. Many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft^3/s, December 23, 1955, gage height, 13.63 ft; maximum gage height 14.94 ft, January 2, 1997; no flow September 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,500 ft^3/s, April 15, gage height, 6.47 ft; minimum daily, 173 ft^3/s, August 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	322	317	352	306	386	633	917	1310	230	279	231
2	337	316	468	321	295	372	730	856	1230	263	255	235
3	319	309	395	357	291	361	778	840	1110	300	248	235
4	321	300	308	316	283	358	870	894	1020	317	246	229
5	321	297	307	312	281	373	958	942	1010	322	235	268
6	325	283	334	316	278	421	897	980	953	325	202	283
7	321	277	335	444	295	588	857	997	897	322	173	284
8	328	306	310	376	357	507	855	935	844	345	182	280
9	326	293	246	319	329	464	985	882	791	340	181	278
10	341	308	230	299	317	444	927	889	698	333	185	275
11	303	327	277	305	321	425	1010	829	587	336	184	285
12	294	320	318	295	335	402	1050	820	511	339	187	282
13	292	329	329	283	346	424	1090	840	479	336	183	278
14	296	313	348	303	350	404	1130	877	487	329	180	292
15	299	301	328	290	352	346	1360	853	462	356	185	285
16	302	316	335	285	347	340	1100	896	420	331	183	287
17	293	322	355	317	351	317	994	898	404	342	184	296
18	300	318	326	302	335	319	980	962	425	371	179	279
19	298	309	322	298	315	323	862	966	360	371	182	276
20	302	311	328	292	378	326	839	894	260	332	184	289
21	289	308	340	291	414	331	818	813	260	329	183	308
22	288	450	317	296	390	334	824	765	260	337	190	307
23	300	364	326	295	423	382	877	839	267	324	185	321
24	300	383	315	296	427	405	945	815	270	326	183	311
25	294	502	316	312	401	394	1010	801	257	321	198	312
26	280	375	333	302	388	378	1170	832	285	342	192	317
27	271	335	337	295	393	379	1060	841	277	356	202	315
28	258	323	340	290	403	417	1120	823	273	339	192	312
29	290	329	352	283	---	467	1160	818	255	335	231	319
30	283	330	327	280	---	519	1100	882	235	334	231	325
31	336	---	368	280	---	591	---	1170	---	325	234	---
TOTAL	9434	9876	10187	9602	9701	12497	28989	27366	16897	10208	6238	8594
MEAN	304.3	329.2	328.6	309.7	346.5	403.1	966.3	882.8	563.2	329.3	201.2	286.5
MAX	341	502	468	444	427	591	1360	1170	1310	371	279	325
MIN	258	277	230	280	278	317	633	765	235	230	173	229
AC-FT	18710	19590	20210	19050	19240	24790	57500	54280	33520	20250	12370	17050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 2002, BY WATER YEAR (WY)

MEAN	281.2	418.6	563.4	668.8	740.1	901.4	1232	1510	1062	432.0	257.8	254.0
MAX	977	2513	3638	6177	3336	4448	4138	5679	4883	2500	1261	1302
(WY)	1908	1984	1984	1997	1997	1986	1907	1952	1983	1983	1907	1983
MIN	27.7	36.1	53.9	64.9	85.5	127	198	95.4	44.7	16.0	10.4	5.03
(WY)	1993	1933	1933	1933	1933	1933	1977	1934	1931	1931	1931	1926

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1907 - 2002	
ANNUAL TOTAL	140992		159589			
ANNUAL MEAN	386.3		437.2		695.7	
HIGHEST ANNUAL MEAN					2350	1983
LOWEST ANNUAL MEAN					106	1931
HIGHEST DAILY MEAN	557	Mar 26	1360	Apr 15	16200	Dec 23 1955
LOWEST DAILY MEAN	230	Dec 10	173	Aug 7	0.00	Sep 12 1926
ANNUAL SEVEN-DAY MINIMUM	282	Oct 24	182	Aug 7	0.00	Sep 14 1926
MAXIMUM PEAK FLOW			1500	Apr 15	20800	Dec 23 1955
MAXIMUM PEAK STAGE			6.47	Apr 15	14.94	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	279700		316500		504000	
10 PERCENT EXCEEDS	485		895		1710	
50 PERCENT EXCEEDS	374		326		383	
90 PERCENT EXCEEDS	308		247		121	

PYRAMID AND WINNEMUCCA LAKES BASIN

10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in NW $^1/_4$ NE $^1/_4$ sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, 400 ft upstream from McCarran Boulevard bridge, 1 mi south of Southern Pacific Railroad in Sparks, 2.5 mi upstream from Steamboat Creek, and at mi 56.15 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,070 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,382.41 ft above NGVD of 1929 (U.S. Army Corps of Engineers benchmark).

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, and several powerplants. Many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 18,000 ft^3/s (comparison with upstream and downstream stations), January 2, 1997, recorded gage height, 17.06 ft (flow overbank and around gage); no flow many days August, September, and October 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft^3/s, April 15, gage height, 7.17 ft; minimum daily, 128 ft^3/s, August 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	284	279	313	e278	352	603	942	1370	196	241	181
2	282	280	454	289	261	338	719	865	1290	197	208	197
3	268	274	375	318	254	327	780	834	1140	246	196	196
4	271	265	275	282	247	324	909	888	1020	259	195	168
5	268	261	271	276	243	342	1020	938	1020	265	184	e210
6	271	248	299	277	242	383	957	979	949	271	157	241
7	268	240	303	402	257	555	908	1010	891	267	128	239
8	284	263	280	344	315	473	903	937	849	304	135	234
9	287	257	218	291	290	432	1050	877	790	292	131	235
10	300	264	201	264	280	410	993	883	685	284	136	238
11	262	283	238	263	282	396	1110	824	548	283	134	237
12	253	280	277	251	297	374	1160	804	467	281	143	e229
13	245	286	290	239	307	393	1230	828	428	281	134	e234
14	244	267	312	257	313	376	1280	863	437	277	131	247
15	247	256	290	246	314	322	1550	830	414	302	133	239
16	257	272	297	240	309	314	1200	882	376	282	131	244
17	242	279	317	274	313	291	1070	886	360	288	133	250
18	245	278	289	262	302	293	1050	949	383	337	131	232
19	242	271	281	258	279	296	904	960	324	339	132	230
20	247	279	288	262	335	300	869	889	219	294	133	241
21	235	273	302	250	381	e302	842	797	216	274	133	263
22	250	417	281	255	353	e314	848	711	218	274	142	263
23	269	343	289	256	383	347	914	800	224	269	136	284
24	270	366	278	259	393	371	994	774	245	268	141	273
25	264	480	278	269	367	362	1070	757	212	264	e140	273
26	252	350	295	264	355	348	1240	786	239	281	e137	273
27	238	303	301	259	357	348	1100	797	237	298	153	274
28	227	290	307	256	368	381	1160	777	223	284	146	271
29	249	291	320	254	---	428	1240	773	206	281	177	278
30	245	288	288	e251	---	480	1150	846	187	277	182	289
31	293	---	328	e258	---	558	---	1180	---	271	183	---
TOTAL	8042	8788	9101	8439	8675	11530	30823	26866	16167	8586	4716	7263
MEAN	259.4	292.9	293.6	272.2	309.8	371.9	1027	866.6	538.9	277.0	152.1	242.1
MAX	300	480	454	402	393	558	1550	1180	1370	339	241	289
MIN	227	240	201	239	242	291	603	711	187	196	128	168
AC-FT	15950	17430	18050	16740	17210	22870	61140	53290	32070	17030	9350	14410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

MEAN	247.9	437.8	624.1	759.1	870.1	1076	1163	1526	1017	431.9	234.8	258.2
MAX	728	2573	3716	6500	3342	4590	3104	3965	5039	2586	802	1199
(WY)	1983	1984	1984	1997	1997	1986	1983	1982	1983	1983	1983	1983
MIN	2.53	33.9	54.2	71.6	66.4	218	225	132	30.7	27.6	0.27	0.000
(WY)	1995	1991	1991	1991	1991	1992	1992	1992	1992	1992	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1977 - 2002	
ANNUAL TOTAL	128942		148996			
ANNUAL MEAN	353.3		408.2		729.2	
HIGHEST ANNUAL MEAN					2373	1983
LOWEST ANNUAL MEAN					88.7	1992
HIGHEST DAILY MEAN	633	Mar 26	1550	Apr 15	15000	Jan 2 1997
LOWEST DAILY MEAN	201	Dec 10	128	Aug 7	0.00	Aug 13 1992
ANNUAL SEVEN-DAY MINIMUM	244	May 22	132	Aug 14	0.00	Sep 4 1992
MAXIMUM PEAK FLOW			1760	Apr 15	18000	Jan 2 1997
MAXIMUM PEAK STAGE			7.17	Apr 15	17.06	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	255800		295500		528200	
10 PERCENT EXCEEDS	492		906		2030	
50 PERCENT EXCEEDS	318		283		340	
90 PERCENT EXCEEDS	265		199		84	

e Estimated

PERIOD OF RECORD.--Water years 1988 to September 1995; October 2000 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 1993 to September 1995; October 2000 to current year.
WATER TEMPERATURE: June 1988 to September 1995; October 2000 to current year.

INSTRUMENTATION.--Specific-conductance recorder from August 1993 to September 1995, four times per hour; October 2000 to April 2001, hourly; May 2001 to current year, four times per hour. Temperature recorder from June 1988 to July 1993, hourly; August 1993 to September 1995, four times per hour; October 2000 to April 2001, hourly; May 2001 to current year, four times per hour.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in the record were due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 687 microsiemens, January 5, 1995; minimum recorded, 69 microsiemens, May 19 and 31, 2002.
WATER TEMPERATURE: Maximum, 30.5°C, August 12, 1991; minimum, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 352 microsiemens, January 29; minimum recorded, 69 microsiemens, May 19 and 31.
WATER TEMPERATURE: Maximum recorded, 25.5°C, August 14; minimum, freezing point on many days during winter months.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	156	147	151	127	122	124	146	140	143	160	152	157
2	171	123	147	127	122	125	206	138	163	181	160	164
3	172	119	141	128	122	126	345	151	208	198	167	172
4	126	124	125	130	122	127	206	163	172	182	174	178
5	125	122	124	132	121	127	182	164	172	182	174	178
6	125	122	123	134	121	129	180	160	166	178	168	172
7	129	121	123	137	112	128	168	154	159	171	146	161
8	126	120	123	138	111	127	161	156	159	159	145	151
9	125	119	122	139	111	127	171	159	164	184	159	168
10	128	117	121	139	108	126	209	158	177	175	168	172
11	124	121	123	135	111	126	187	153	172	177	170	173
12	125	120	122	136	105	127	164	139	154	172	166	170
13	127	122	124	137	110	129	156	124	145	173	167	171
14	123	118	121	144	104	128	202	147	174	174	167	170
15	123	116	120	145	101	132	168	130	149	169	163	167
16	122	117	120	145	114	132	152	144	148	171	164	168
17	122	111	118	143	110	130	172	143	150	171	161	166
18	121	117	119	142	107	130	150	142	147	165	156	161
19	121	119	120	141	124	133	149	144	147	170	160	165
20	122	118	121	131	126	129	149	144	147	174	163	170
21	122	118	120	131	127	129	147	142	145	168	158	163
22	124	120	122	153	121	129	161	143	147	168	159	163
23	123	119	121	133	122	125	218	148	164	169	156	164
24	122	118	121	222	133	157	151	144	147	168	158	164
25	124	120	122	159	137	145	150	147	149	164	150	160
26	127	120	123	148	136	141	149	143	146	164	153	159
27	128	124	126	147	143	146	145	141	143	168	152	159
28	132	126	128	147	144	146	196	142	153	162	156	159
29	133	124	128	150	145	147	176	149	156	352	162	205
30	149	124	128	149	142	145	164	155	157	225	146	184
31	142	122	127	---	---	---	169	149	156	203	168	178
MONTH	172	111	125	222	101	132	345	124	157	352	145	168

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	178	158	170	164	140	152	128	121	125	---	---	---
2	176	160	168	147	142	145	124	117	121	112	97	102
3	175	159	167	153	143	148	124	112	116	101	99	100
4	176	157	168	154	141	148	118	105	111	119	95	99
5	180	164	170	150	140	145	107	100	104	150	119	143
6	183	161	172	164	139	144	112	103	107	154	130	140
7	250	152	160	160	134	145	116	106	109	170	85	116
8	270	148	174	168	139	146	---	---	---	88	84	86
9	160	153	156	---	---	---	---	---	---	90	85	87
10	161	150	154	---	---	---	---	---	---	105	88	93
11	152	147	149	---	---	---	---	---	---	91	87	88
12	148	143	146	---	---	---	---	---	---	90	87	89
13	152	145	147	---	---	---	---	---	---	89	84	86
14	152	144	148	---	---	---	---	---	---	85	82	84
15	158	145	149	---	---	---	---	---	---	83	78	81
16	157	145	150	---	---	---	---	---	---	80	76	78
17	168	148	154	---	---	---	---	---	---	80	74	77
18	155	147	152	---	---	---	---	---	---	78	70	74
19	168	150	156	---	---	---	---	---	---	76	69	73
20	164	150	156	---	---	---	---	---	---	78	74	77
21	167	152	159	156	146	152	---	---	---	84	78	81
22	166	152	159	157	155	156	---	---	---	84	82	83
23	160	152	157	157	150	154	---	---	---	95	82	83
24	167	145	157	163	150	153	---	---	---	117	83	105
25	180	148	160	154	147	151	---	---	---	93	81	85
26	196	147	175	155	148	152	---	---	---	97	76	85
27	172	148	159	153	147	150	---	---	---	80	77	79
28	162	150	157	154	142	148	---	---	---	86	72	79
29	---	---	---	145	136	141	---	---	---	76	71	74
30	---	---	---	142	132	135	---	---	---	77	73	75
31	---	---	---	133	125	129	---	---	---	78	69	73
MONTH	270	143	159	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	80	72	75	173	126	145	146	118	123	130	116	123
2	88	74	78	165	149	154	135	118	126	129	120	125
3	97	88	93	178	156	166	126	124	125	124	112	119
4	102	90	96	227	155	180	127	122	124	129	122	124
5	90	81	85	227	144	175	128	122	124	124	116	120
6	93	83	88	236	160	198	136	125	128	118	115	117
7	93	89	92	220	142	171	141	135	137	118	115	117
8	92	85	88	146	128	138	144	135	138	118	115	116
9	98	85	91	150	134	142	140	135	137	118	115	117
10	95	85	87	148	130	141	142	134	137	117	113	115
11	99	90	93	141	121	131	142	134	137	119	114	116
12	113	99	104	210	123	156	140	133	136	118	112	116
13	119	113	117	161	115	137	140	134	137	120	112	116
14	119	106	110	177	146	160	140	134	137	119	114	116
15	116	111	114	149	114	132	142	134	137	121	115	117
16	117	114	115	123	115	118	139	132	136	126	117	120
17	117	92	101	188	123	175	139	131	134	121	114	116
18	102	93	96	173	116	136	138	132	135	119	114	116
19	106	98	101	193	120	145	138	132	136	119	115	117
20	114	106	111	239	118	177	137	130	134	118	115	117
21	222	114	149	169	120	143	136	131	134	118	115	116
22	219	181	192	168	121	136	137	128	134	118	114	116
23	189	170	180	180	117	131	138	130	133	118	115	116
24	185	104	116	121	118	119	136	133	134	118	114	116
25	179	114	146	121	118	119	136	129	133	118	113	115
26	222	126	148	120	117	118	133	127	129	118	113	116
27	304	217	245	119	116	117	134	127	129	120	110	115
28	220	146	173	119	116	117	129	126	128	120	110	115
29	217	162	177	118	116	117	130	120	126	120	108	114
30	221	157	174	119	115	117	123	118	120	128	113	116
31	---	---	---	121	116	118	125	118	123	---	---	---
MONTH	304	72	121	239	114	143	146	118	132	130	108	117

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	14.0	16.0	10.0	8.0	9.5	5.0	3.5	4.0	5.5	4.5	5.5
2	18.0	14.0	16.0	10.0	7.5	9.0	4.5	1.5	3.5	6.0	4.5	5.0
3	18.0	14.0	16.0	10.0	7.5	9.0	2.5	0.5	1.5	5.5	4.0	5.0
4	17.5	14.5	16.0	10.0	7.5	9.0	2.0	0.5	1.5	4.0	2.5	3.0
5	16.0	14.0	15.0	10.5	8.0	9.5	3.0	1.0	2.0	4.0	2.0	3.0
6	16.5	13.0	14.5	10.5	8.0	9.0	5.5	2.5	4.0	6.0	3.5	4.5
7	16.5	12.5	14.5	9.5	7.5	8.5	4.5	3.0	4.0	6.0	4.0	5.0
8	16.0	13.0	14.0	8.5	6.5	7.5	3.5	2.5	3.0	5.0	3.5	4.5
9	14.0	11.5	13.0	8.0	5.5	7.0	3.5	2.0	2.5	5.0	4.0	4.5
10	13.0	10.0	11.5	8.5	5.5	7.0	3.0	2.0	2.5	5.0	3.0	4.5
11	13.0	11.0	12.0	10.0	7.0	8.5	3.0	2.0	2.5	4.5	2.5	3.5
12	13.5	10.0	11.5	8.5	7.5	8.0	3.5	1.5	2.5	5.0	2.5	4.0
13	13.5	10.0	12.0	8.0	6.5	7.5	4.0	2.5	3.5	4.0	2.0	3.0
14	13.5	10.0	12.0	9.0	6.5	8.0	4.0	1.5	3.0	3.0	1.0	2.0
15	13.5	10.0	12.0	8.5	6.5	7.5	1.5	0.0	0.5	2.0	0.5	1.0
16	13.5	10.5	12.0	9.5	7.5	8.0	1.0	0.0	0.5	2.0	0.0	1.0
17	13.0	11.5	12.5	8.5	7.0	8.0	3.0	0.5	2.0	1.0	0.0	0.5
18	13.0	10.0	12.0	7.5	6.0	7.0	3.0	1.0	2.0	1.5	0.0	0.5
19	13.0	9.5	11.5	7.0	5.0	6.0	3.0	1.0	2.0	0.5	0.0	0.0
20	13.5	10.5	12.0	7.5	5.5	6.5	4.0	2.5	3.0	1.5	0.0	0.5
21	13.0	10.0	11.5	7.5	6.0	7.0	3.5	2.0	3.0	3.0	0.0	1.5
22	13.0	10.0	11.5	8.0	6.0	7.5	3.0	2.0	2.5	2.0	0.5	1.5
23	13.0	10.5	11.5	6.0	4.5	5.5	3.5	2.0	3.0	1.0	0.0	0.5
24	11.0	9.0	10.0	5.5	3.5	4.5	3.0	1.5	2.5	1.5	0.0	0.5
25	11.0	8.0	9.5	5.0	3.0	3.5	1.5	0.5	1.0	3.0	0.0	1.5
26	12.0	8.5	10.0	3.5	2.0	3.0	2.5	1.0	2.0	4.5	2.0	3.0
27	11.5	9.5	10.5	3.5	2.0	2.5	4.5	2.5	3.5	2.5	0.5	1.5
28	11.5	10.0	10.5	3.5	2.0	2.5	4.5	3.5	4.0	1.0	0.0	0.0
29	12.0	9.5	11.0	4.5	3.0	3.5	5.0	4.0	4.5	1.0	0.0	0.5
30	12.0	10.5	11.5	4.5	3.0	3.5	5.5	5.0	5.5	0.5	0.0	0.0
31	11.0	8.0	9.5	---	---	---	6.5	5.0	5.5	0.5	0.0	0.0
MONTH	18.0	8.0	12.4	10.5	2.0	6.8	6.5	0.0	2.8	6.0	0.0	2.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	0.0	0.5	5.5	3.0	4.0	12.0	7.5	9.5	9.5	7.0	8.0
2	2.0	0.0	1.0	5.5	2.0	3.5	12.0	8.0	10.0	12.0	7.5	9.5
3	2.5	0.0	1.0	6.5	2.0	4.0	12.0	8.5	10.0	13.5	9.0	11.0
4	2.5	0.0	1.5	7.5	3.0	5.0	12.0	9.0	10.5	13.0	10.0	11.5
5	3.5	0.0	1.5	8.5	4.5	6.5	10.5	8.5	9.5	13.5	9.5	11.5
6	3.5	0.0	2.0	9.5	5.5	7.0	10.5	7.5	9.0	13.5	9.5	11.5
7	4.5	0.5	2.5	6.5	3.5	5.0	11.0	8.0	9.5	12.5	9.5	11.0
8	4.5	2.0	3.0	5.5	1.5	3.5	12.0	8.5	10.0	11.5	8.0	9.5
9	4.0	1.5	2.5	7.0	2.5	4.5	10.0	7.5	9.0	12.5	8.5	10.5
10	4.5	1.0	2.5	7.5	3.5	5.0	11.0	7.0	9.0	10.5	8.5	9.5
11	5.0	2.0	3.5	8.5	4.0	6.0	11.0	8.5	10.0	12.5	7.5	10.0
12	6.0	3.5	4.5	9.5	6.5	7.5	11.5	8.0	10.0	13.5	9.0	11.5
13	5.0	4.0	4.5	6.5	4.0	5.5	11.5	8.5	10.0	13.5	10.5	12.0
14	6.5	4.0	5.0	6.0	3.0	4.5	12.5	9.0	10.5	14.5	10.0	12.0
15	6.0	4.0	5.0	4.5	2.5	3.5	9.0	6.5	7.5	14.5	10.0	12.5
16	7.0	4.0	5.5	5.0	2.0	3.0	8.5	5.0	6.5	14.0	10.0	12.5
17	6.0	5.0	5.5	5.0	1.5	3.0	7.0	4.5	5.5	15.0	11.0	13.0
18	6.5	4.0	5.5	6.5	2.0	4.0	6.0	5.0	5.5	14.0	11.0	12.5
19	7.5	5.0	6.0	8.5	3.0	6.0	7.5	5.5	6.5	13.0	10.5	12.0
20	8.5	5.5	7.0	10.0	5.5	8.0	10.0	6.0	8.0	11.5	9.0	10.0
21	8.5	5.5	7.0	---	---	---	11.5	6.5	9.0	12.0	7.0	9.5
22	8.0	5.5	6.5	---	---	---	12.0	8.0	10.0	13.0	8.0	10.0
23	8.0	5.5	6.5	9.5	7.5	8.0	12.5	8.5	10.5	13.5	9.5	11.5
24	7.5	4.0	6.0	9.0	6.0	7.5	12.0	8.5	10.5	14.5	10.0	12.0
25	7.5	4.0	5.5	9.5	5.5	7.0	13.0	9.0	11.0	15.0	11.5	13.5
26	7.5	3.5	5.5	11.0	6.0	8.5	10.5	8.5	9.5	15.0	11.0	13.0
27	8.0	4.5	6.0	11.5	6.5	9.0	11.0	7.5	9.0	14.0	11.5	12.5
28	7.5	4.0	5.5	12.0	7.0	9.5	10.5	6.5	8.5	16.5	11.5	13.5
29	---	---	---	12.5	7.5	10.0	9.0	8.0	8.5	17.0	12.5	14.5
30	---	---	---	12.0	7.5	9.5	8.5	6.5	7.5	17.0	13.0	15.0
31	---	---	---	11.5	7.5	9.5	---	---	---	15.5	13.0	14.5
MONTH	8.5	0.0	4.2	---	---	---	13.0	4.5	9.0	17.0	7.0	11.6

10348200 TRUCKEE RIVER AT SPARKS, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	12.5	13.5	24.0	18.0	21.0	22.5	19.0	21.0	22.5	17.0	20.0
2	14.0	10.5	12.5	24.0	19.0	21.5	22.5	18.5	20.5	22.5	17.0	19.5
3	15.5	11.5	13.5	23.0	17.5	20.0	24.0	18.0	21.0	20.5	16.0	18.5
4	16.5	12.5	14.5	22.5	16.5	19.0	22.5	17.0	20.0	19.5	15.5	17.5
5	17.0	13.0	15.0	22.5	17.0	19.5	22.0	17.0	19.5	19.5	15.0	17.0
6	17.0	13.5	15.5	23.0	17.0	19.5	21.0	15.0	18.0	19.0	15.5	16.5
7	17.0	13.5	15.0	23.0	18.0	20.5	21.5	15.0	18.5	17.0	12.5	15.0
8	15.5	12.5	14.0	23.0	17.0	20.0	22.0	15.5	19.0	17.5	12.5	15.0
9	14.5	11.0	13.0	23.5	17.5	20.5	22.5	16.0	19.5	18.0	12.5	15.0
10	15.5	11.0	13.0	25.0	18.5	21.5	23.5	17.0	20.5	18.0	13.0	15.5
11	17.0	12.0	14.5	24.5	19.5	22.0	24.0	18.0	21.5	19.0	14.0	16.5
12	18.5	14.0	16.0	23.0	20.0	21.5	24.5	18.5	22.0	19.0	14.5	16.5
13	20.0	15.0	17.5	22.5	19.0	20.5	25.0	19.0	22.5	19.5	14.5	17.0
14	20.0	15.5	17.5	24.5	19.0	21.5	25.5	19.5	23.0	19.0	15.0	17.0
15	19.5	14.5	17.0	24.0	19.0	21.5	25.0	19.5	22.5	19.0	15.0	16.5
16	19.5	14.5	17.0	24.5	19.0	21.5	25.0	19.0	22.0	18.0	13.5	16.0
17	19.5	14.5	17.0	21.0	18.0	20.0	23.0	18.0	21.0	17.5	14.0	16.0
18	20.5	15.5	18.0	19.5	16.5	18.0	23.0	17.0	20.0	18.0	13.5	15.5
19	20.5	15.5	18.0	22.0	16.0	19.0	21.5	16.5	19.5	17.5	13.0	15.5
20	21.5	15.5	18.5	24.0	18.5	21.0	20.5	15.5	18.0	18.5	13.5	16.0
21	20.5	16.0	18.5	24.5	19.5	21.5	20.5	14.5	17.5	19.0	14.5	17.0
22	22.0	15.5	19.0	23.5	18.0	20.5	21.0	15.0	18.0	19.0	14.5	17.0
23	22.5	16.5	19.5	23.0	17.0	20.0	21.0	15.0	18.5	19.0	15.0	17.0
24	22.5	16.0	19.0	23.0	17.5	20.0	21.5	15.5	18.5	18.5	14.5	16.5
25	24.0	17.0	20.0	22.0	17.0	19.5	21.0	15.0	18.5	17.5	14.0	15.5
26	22.5	17.5	20.0	22.0	16.5	19.0	21.0	15.5	18.5	17.0	13.0	15.0
27	23.0	16.5	19.5	23.0	18.0	20.5	21.0	15.5	18.5	17.5	14.0	15.5
28	23.0	17.0	20.0	24.0	18.5	21.0	21.5	16.0	19.0	16.5	13.5	15.0
29	23.0	16.5	19.5	24.0	18.0	21.0	21.5	16.5	19.0	16.5	12.5	14.5
30	24.0	17.5	21.0	23.5	19.0	21.0	21.0	16.5	19.0	15.5	12.0	13.5
31	---	---	---	24.0	18.5	21.0	22.0	16.5	19.5	---	---	---
MONTH	24.0	10.5	16.9	25.0	16.0	20.5	25.5	14.5	19.8	22.5	12.0	16.3

PYRAMID AND WINNEMUCCA LAKES BASIN

10348245 NORTH TRUCKEE DRAIN AT SPANISH SPRINGS ROAD NEAR SPARKS, NV

LOCATION.--Lat 39°34'08", long 119°43'32", in NE $^1/_4$ SW $^1/_4$ sec.27, T.20 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank upstream of culvert crossing Spanish Springs Road, at south end of Spanish Springs Valley, and 2.4 mi north of Sparks.

DRAINAGE AREA.--80 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1992 to September 1994; October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,410 ft above NGVD of 1929 from topographic map. Prior to November 1, 1993, at a site in same vicinity, at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Orr Ditch, many diversions for irrigation in Spanish Springs Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43 ft^3/s, August 1, 2002, gage height, 3.73 ft; minimum daily, 0.02 ft^3/s, September 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s, August 1, gage height, 3.73 ft; minimum daily, 0.24 ft^3/s, April 7-8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	0.42	0.64	1.7	0.88	0.73	0.28	0.34	11	17	19	20
2	1.0	0.44	3.7	2.1	0.85	0.67	0.29	0.32	11	16	19	20
3	0.96	0.45	2.1	2.1	0.88	0.63	0.29	0.32	10	16	14	17
4	0.87	0.45	1.3	1.7	0.86	0.67	0.44	3.7	12	14	14	17
5	0.72	0.52	1.3	1.7	0.86	0.64	0.35	4.2	12	15	14	19
6	0.70	0.58	1.4	1.7	0.86	0.85	0.29	0.42	12	17	14	19
7	0.74	0.54	1.3	1.6	0.89	0.86	0.24	0.65	13	17	15	19
8	0.72	0.49	1.3	1.6	1.2	0.65	0.24	1.1	12	17	15	20
9	0.72	0.56	1.2	1.6	0.81	0.46	0.50	2.1	11	18	14	19
10	0.71	0.58	1.3	1.5	0.77	0.45	0.31	4.2	11	15	16	18
11	0.68	0.63	1.2	1.4	0.81	0.51	0.26	4.6	14	15	17	18
12	0.65	0.66	1.2	1.4	0.83	0.47	0.25	4.9	14	19	17	18
13	0.68	0.64	1.2	1.4	0.83	0.47	0.27	5.8	16	15	18	22
14	0.72	0.65	1.6	1.3	0.84	0.51	0.27	5.4	17	11	18	21
15	0.62	0.72	1.1	1.2	0.99	0.48	0.30	5.2	17	12	17	24
16	0.57	0.81	1.1	1.6	0.91	0.46	0.27	5.7	14	13	17	23
17	0.56	0.76	1.3	1.2	1.0	0.46	0.28	5.8	13	15	18	21
18	0.57	0.74	1.2	1.1	0.91	0.46	0.32	7.6	14	16	17	17
19	0.57	0.75	1.2	1.0	0.87	0.45	0.36	9.0	17	17	16	18
20	0.62	0.76	1.2	1.1	0.90	0.41	0.31	9.6	16	18	17	17
21	0.61	0.65	1.2	1.0	0.87	0.37	0.27	7.4	22	20	17	10
22	0.52	0.84	1.2	1.1	0.85	0.42	0.28	7.8	20	19	19	6.7
23	0.49	0.81	1.3	1.2	0.83	0.43	0.27	9.0	14	18	17	5.9
24	0.44	2.1	1.3	1.1	0.81	0.48	0.29	9.8	11	14	18	5.3
25	0.39	1.1	1.2	0.95	0.80	0.45	0.27	11	14	12	16	4.6
26	0.40	0.81	1.2	0.98	0.75	0.42	0.69	10	14	12	15	4.2
27	0.46	0.76	1.2	0.96	0.74	0.40	0.32	9.8	14	8.8	14	3.9
28	0.48	0.78	1.5	0.87	0.75	0.37	0.30	10	15	7.1	12	3.6
29	0.45	0.74	2.0	0.99	---	0.28	1.6	10	15	9.1	13	3.3
30	0.49	0.67	1.7	0.85	---	0.28	0.41	10	16	16	14	2.8
31	0.47	---	1.9	0.81	---	0.27	---	11	---	15	16	---
TOTAL	19.58	21.41	43.54	40.81	24.15	15.46	10.82	186.75	422	464.0	497	437.3
MEAN	0.632	0.714	1.405	1.316	0.863	0.499	0.361	6.024	14.07	14.97	16.03	14.58
MAX	1.0	2.1	3.7	2.1	1.2	0.86	1.6	11	22	20	19	24
MIN	0.39	0.42	0.64	0.81	0.74	0.27	0.24	0.32	10	7.1	12	2.8
AC-FT	39	42	86	81	48	31	21	370	837	920	986	867

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

MEAN	0.534	0.699	1.065	1.083	1.095	3.073	3.304	8.638	9.699	7.607	7.725	6.876
MAX	1.02	1.32	1.99	1.89	2.33	7.89	6.59	17.4	14.1	15.0	16.0	14.6
(WY)	2001	2001	2001	2001	1995	1995	1994	1994	2002	2002	2002	2002
MIN	0.049	0.081	0.10	0.14	0.13	0.42	0.36	4.66	1.77	0.11	0.069	0.037
(WY)	1993	1993	1993	1993	1993	1993	2002	1993	1992	1994	1994	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	1843.38		2182.82			
ANNUAL MEAN	5.050		5.980		4.788	
HIGHEST ANNUAL MEAN					5.98	2002
LOWEST ANNUAL MEAN					3.46	1993
HIGHEST DAILY MEAN	19	Sep 6	24	Sep 15	27	Jul 15 1993
LOWEST DAILY MEAN	0.22	Apr 18	0.24	Apr 7	0.02	Sep 20 1992
ANNUAL SEVEN-DAY MINIMUM	0.35	Apr 12	0.27	Apr 11	0.02	Sep 20 1992
MAXIMUM PEAK FLOW			43	Aug 1	43	Aug 1 2002
MAXIMUM PEAK STAGE			3.73	Aug 1	3.73	Aug 1 2002
ANNUAL RUNOFF (AC-FT)	3660		4330		3470	
10 PERCENT EXCEEDS	14		17		14	
50 PERCENT EXCEEDS	1.7		1.2		1.4	
90 PERCENT EXCEEDS	0.46		0.41		0.10	

PRECIPITATION RECORDS

PERIOD OF RECORD.— October 2000 to current year.

INSTRUMENTATION.—Recording-weighing gage since October 6, 2000.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily precipitation, 0.73 in., December 2, 2001; no precipitation most days.

EXTREMES FOR CURRENT YEAR.—Maximum daily precipitation, 0.73 in., December 2; no precipitation most days.

PRECIPITATION, TOTAL, INCHES , WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
2	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
3	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00
8	0.02	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
11	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
13	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
14	0.00	0.00	0.06	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
23	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.45	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.01	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.01	0.01	0.03	---	0.00	0.24	0.00	0.00	0.00	0.00	0.00
30	0.10	0.00	0.00	0.01	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.12	0.66	1.20	0.18	0.10	0.26	0.48	0.09	0.06	0.03	0.02	0.00

CAL YR 2001 TOTAL 3.47
WTR YR 2002 TOTAL 3.20

10348300 NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS, NV

LOCATION.--Lat 39°31'36", long 119°42'30", in NE $^1/_4$ SW $^1/_4$ sec.11, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank, 0.2 mi above Kleppe Lane bridge in Sparks.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1992 to December 1996, January 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft above NGVD of 1929, from topographic map. Gage formerly operated by Federal Court Watermaster at site 0.2 mi downstream.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by Orr Ditch, many diversions in Spanish Springs Valley, and by pumping from the Helms Pit. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670 ft^3/s, May 18, 1996, gage height, 7.74 ft; maximum gage height, 8.57 ft, backwater from Truckee River; minimum daily, 1.2 ft^3/s, December 27, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 282 ft^3/s, August 1, gage height, 4.90 ft; minimum daily, 3.0 ft^3/s, September 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	5.0	9.0	5.3	12	19	16	5.6	20	21	51	29
2	7.5	4.7	67	12	13	19	17	4.9	19	20	37	31
3	7.8	4.3	19	7.4	13	17	18	5.1	19	22	24	26
4	7.3	4.1	9.1	5.7	13	16	19	7.7	22	20	21	26
5	6.5	4.3	9.1	5.3	13	17	20	10	22	20	20	28
6	6.3	4.3	8.1	5.4	13	19	19	6.4	22	24	21	29
7	6.0	4.1	8.2	6.6	14	13	20	6.7	23	25	21	30
8	6.4	4.0	7.9	7.5	14	7.3	21	6.3	22	26	21	31
9	6.1	4.0	7.6	13	13	6.5	27	7.0	20	28	22	28
10	6.5	4.0	11	9.4	12	6.1	25	12	18	26	21	26
11	5.7	4.1	9.1	7.4	13	6.3	24	9.3	22	26	23	26
12	14	4.1	9.5	7.9	13	7.1	24	9.2	22	34	23	25
13	28	3.7	8.8	8.4	14	7.1	26	9.4	25	29	25	31
14	27	3.3	15	8.6	15	7.9	25	9.3	31	23	26	29
15	14	4.4	9.4	9.0	16	6.9	26	9.0	30	21	25	33
16	5.4	5.1	8.9	9.6	15	7.1	25	9.1	27	22	25	32
17	5.1	5.3	10	9.3	17	6.9	28	9.7	24	23	26	29
18	5.1	5.4	9.2	9.4	16	7.4	30	11	25	31	26	24
19	5.1	5.6	8.9	9.7	16	9.1	28	12	28	26	25	24
20	5.0	6.1	8.7	9.4	16	9.6	27	14	30	26	25	23
21	5.0	6.2	21	9.6	16	10	26	12	36	27	26	14
22	4.6	6.3	29	11	16	11	25	12	36	26	27	8.9
23	4.5	7.1	28	12	17	11	25	13	25	27	26	7.3
24	4.3	29	27	12	18	12	25	13	18	25	26	6.8
25	4.8	9.2	27	12	17	12	25	15	19	22	24	5.8
26	4.9	7.9	16	13	17	13	27	15	20	22	21	5.1
27	4.4	7.4	5.5	13	17	14	8.4	14	18	18	21	4.8
28	4.0	8.1	11	12	18	14	8.5	15	18	16	20	4.2
29	4.3	8.2	9.7	12	---	15	42	16	19	18	21	3.5
30	4.8	9.1	6.1	9.1	---	16	6.7	17	21	24	22	3.0
31	5.5	---	7.4	9.1	---	17	---	19	---	25	26	---
TOTAL	232.6	188.4	441.2	291.1	417	360.3	683.6	334.7	701	743	768	623.4
MEAN	7.503	6.280	14.23	9.390	14.89	11.62	22.79	10.80	23.37	23.97	24.77	20.78
MAX	28	29	67	13	18	19	42	19	36	34	51	33
MIN	4.0	3.3	5.5	5.3	12	6.1	6.7	4.9	18	16	20	3.0
AC-FT	461	374	875	577	827	715	1360	664	1390	1470	1520	1240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	12.50	11.29	13.40	12.19	13.24	16.31	15.89	31.18	26.01	19.96	24.16	21.94
MAX	30.7	26.2	33.4	17.5	30.3	42.4	23.2	79.8	41.6	28.8	43.5	35.3
(WY)	1997	1997	1997	1996	1996	1995	1998	1996	1993	1996	1999	1999
MIN	7.07	6.17	4.98	7.12	6.44	5.47	6.49	8.13	18.5	9.46	8.92	10.3
(WY)	2001	2000	2001	2001	2001	2001	2000	2001	1998	1994	1994	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	4083.3		5784.3			
ANNUAL MEAN	11.19		15.85		17.48	
HIGHEST ANNUAL MEAN					27.1	1996
LOWEST ANNUAL MEAN					10.7	2001
HIGHEST DAILY MEAN	67	Dec 2	67	Dec 2	316	May 18 1996
LOWEST DAILY MEAN	3.1	Sep 24	3.0	Sep 30	1.2	Dec 27 1994
ANNUAL SEVEN-DAY MINIMUM	3.7	Sep 20	3.9	Nov 8	3.5	Mar 13 2000
MAXIMUM PEAK FLOW			282	Aug 1	670	May 18 1996
MAXIMUM PEAK STAGE			4.90	Aug 1	8.57	Mar 24 1998
ANNUAL RUNOFF (AC-FT)	8100		11470		12660	
10 PERCENT EXCEEDS	20		27		30	
50 PERCENT EXCEEDS	7.7		14		14	
90 PERCENT EXCEEDS	4.8		5.1		5.7	

PYRAMID AND WINNEMUCCA LAKES BASIN

10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in SW $^1/_4$ SE $^1/_4$ sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank, 300 ft upstream from Red House diversion dam, 0.2 mi upstream from Red House, and 6.1 mi northwest of Carson City.

DRAINAGE AREA.--3.24 mi^2.

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,380 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake (station 10336710) during dry years. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

REVISIONS.--WDR NV-94-1: 1980 (P), 1982-1985(P).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89 ft^3/s, February 16, 1986, gage height, 3.64 ft; minimum daily, 0.48 ft^3/s, September 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft^3/s, April 14, gage height, 1.83 ft; minimum daily, 0.72 ft^3/s, October 3-5, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.5	e1.5	1.3	1.4	1.5	2.6	3.0	4.4	2.0	3.4	3.5
2	0.92	1.3	e1.5	1.4	1.4	1.5	3.3	3.3	4.1	1.9	3.5	3.4
3	0.72	1.3	e1.5	1.4	1.4	1.5	5.3	4.4	3.9	1.9	3.5	3.3
4	0.72	1.4	1.5	1.4	1.4	1.5	5.7	5.1	3.8	2.3	3.5	3.3
5	0.72	1.4	e1.5	1.4	1.4	1.5	5.8	5.2	3.6	2.7	3.4	3.3
6	0.73	1.3	e1.5	1.6	1.4	e1.4	5.5	5.1	3.3	3.1	3.4	3.3
7	0.72	1.2	1.5	1.7	e1.4	e1.4	5.3	5.0	3.1	3.2	3.3	3.3
8	0.73	1.2	1.5	1.9	e1.4	e1.4	5.4	4.8	3.0	3.2	3.4	3.3
9	0.75	1.2	1.5	1.7	1.4	1.5	5.6	4.6	2.9	3.2	3.4	3.3
10	0.75	1.2	1.5	1.5	1.4	1.5	5.7	4.5	3.0	3.5	3.3	3.3
11	0.75	1.5	1.5	1.5	1.4	1.5	6.2	4.3	2.9	3.9	3.3	3.2
12	0.75	1.6	1.5	1.4	1.4	1.4	5.9	4.4	2.7	3.9	3.3	3.2
13	0.76	1.7	1.5	1.4	1.4	1.4	6.2	4.7	2.5	3.9	3.3	3.2
14	0.76	1.7	e1.5	1.4	1.4	1.4	8.9	4.9	2.2	3.9	3.3	3.2
15	1.00	1.7	1.3	1.4	1.4	e1.4	6.3	4.7	2.1	3.9	3.3	3.2
16	1.3	1.6	1.3	1.5	1.4	1.4	5.2	4.8	1.9	3.9	3.3	3.1
17	1.1	1.5	1.3	1.5	1.4	e1.4	5.0	5.0	1.9	4.1	3.3	3.1
18	1.0	1.5	1.3	1.5	1.4	1.5	4.5	5.3	1.8	3.9	3.3	3.0
19	1.00	1.4	1.3	1.5	1.4	1.4	4.1	5.1	2.2	3.7	3.1	3.0
20	0.98	1.4	1.3	1.4	1.5	1.5	3.7	4.8	2.3	3.7	3.1	3.1
21	0.98	1.9	1.4	e1.4	1.5	1.5	4.0	4.6	2.3	3.7	3.1	3.1
22	0.98	4.0	1.4	1.5	1.5	1.5	4.0	4.1	2.2	3.8	3.2	3.1
23	1.1	1.9	1.4	1.4	1.5	1.5	4.4	4.0	2.2	3.8	3.2	3.1
24	1.0	4.1	1.3	1.4	1.5	1.5	4.7	4.4	2.1	3.7	3.2	3.1
25	1.2	2.8	1.3	1.4	1.5	1.5	4.8	4.7	2.1	3.8	3.2	3.2
26	1.2	1.7	1.3	1.4	1.5	1.5	4.7	4.5	2.1	3.8	3.2	3.2
27	1.1	1.5	1.3	1.4	1.5	1.5	4.3	4.4	2.1	3.7	3.1	3.1
28	1.1	e1.5	1.3	1.5	1.5	1.7	3.8	4.6	1.8	3.6	3.1	3.2
29	1.1	e1.5	1.4	1.4	---	1.9	3.7	4.6	1.8	3.7	3.1	3.2
30	1.4	1.5	1.3	1.5	---	2.1	3.2	4.6	1.9	3.6	3.1	3.2
31	1.6	---	1.3	1.4	---	2.4	---	4.6	---	3.5	3.2	---
TOTAL	30.02	51.0	43.5	45.5	40.1	47.6	147.8	142.1	78.2	106.5	101.4	96.1
MEAN	0.968	1.700	1.403	1.468	1.432	1.535	4.927	4.584	2.607	3.435	3.271	3.203
MAX	1.6	4.1	1.5	1.9	1.5	2.4	8.9	5.3	4.4	4.1	3.5	3.5
MIN	0.72	1.2	1.3	1.3	1.4	1.4	2.6	3.0	1.8	1.9	3.1	3.0
AC-FT	60	101	86	90	80	94	293	282	155	211	201	191

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY)

MEAN	2.257	2.421	2.306	2.489	2.848	2.880	5.124	8.244	6.582	3.304	2.335	2.147
MAX	5.42	6.55	5.83	8.74	10.3	6.10	13.2	20.7	27.4	11.7	7.22	5.06
(WY)	1984	1984	1984	1997	1986	1986	1997	1997	1983	1983	1983	1983
MIN	0.97	0.94	1.08	1.01	1.04	1.29	2.09	1.08	0.93	0.86	0.67	0.70
(WY)	2002	1991	1995	1995	1992	1991	1991	1992	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1974 - 2002	
ANNUAL TOTAL	771.49		929.82			
ANNUAL MEAN	2.114		2.547		3.588	
HIGHEST ANNUAL MEAN					7.67	1983
LOWEST ANNUAL MEAN					1.45	1992
HIGHEST DAILY MEAN	6.6	Apr 26	8.9	Apr 14	65	Feb 16 1986
LOWEST DAILY MEAN	0.60	Aug 29	0.72	Oct 3	0.48	Sep 9 1976
ANNUAL SEVEN-DAY MINIMUM	0.61	Aug 24	0.73	Oct 3	0.49	Sep 13 1976
MAXIMUM PEAK FLOW			13	Apr 14	89	Feb 16 1986
MAXIMUM PEAK STAGE			1.86	Apr 14	3.64	Feb 16 1986
ANNUAL RUNOFF (AC-FT)	1530		1840		2600	
10 PERCENT EXCEEDS	4.2		4.6		7.3	
50 PERCENT EXCEEDS	1.7		1.9		2.4	
90 PERCENT EXCEEDS	0.88		1.3		1.2	

e Estimated

10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°14'08", long 119°46'02", in NE $^1/_4$ SE $^1/_4$ sec.19, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Washoe Lake State Park, and 4.75 mi north of Carson City.

DRAINAGE AREA.--83.8 mi^2, including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to September 1982, July 1988 to January 1989, July and August 1989, October 1989, March 1990 to February 1995 (monthend contents only), October 1982 to June 30, 1988, February 19 to July 17, and September 1-30, 1989, November 17, 1989 to February 21, 1990, March 24, 1995 to current year (daily elevations).

GAGE.--Water-stage recorder. Datum of gage is above NGVD of 1929. Prior to October 1, 1982, nonrecording gage at different site but same datum.

REMARKS.--Lake is formed by a natural basin whose natural rim falls below the control works on Little Washoe Lake allowing storage regulation. Total capacity 55,700 acre-ft between elevations 5,017.5 ft and 5,032.7 ft. Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House. See schematic diagram of Pyramid and Winnemucca Lakes Basin. Lake elevations may be affected by wind and seiche movements of the lake surface.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5,032.62 ft^3/s, January 28, 1997; no contents at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5,024.34 ft, April 29-30; minimum interpolated, 5021.46 ft, September 30.

Capacity table (elevation, in feet, and volume, in acre-feet)

5,018	100	5,022	7,000	5,026	21,700	5,030	43,300				
5,019	800	5,023	10,000	5,027	26,600	5,031	49,200				
5,020	2,200	5,024	13,400	5,028	32,000	5,032	55,700				
5,021	4,300	5,025	17,300	5,029	37,400	5,032.7	60,600				

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5023.12	5022.84	5022.95	5023.47	5023.73	5023.92	5024.19	5024.32	5023.98	5023.26	5022.56	---
2	5023.12	5022.82	5023.06	5023.50	5023.72	5023.91	5024.18	5024.31	5024.00	5023.21	5022.54	---
3	5023.11	5022.82	5023.14	5023.50	5023.73	5023.92	5024.17	5024.31	5023.95	5023.19	5022.49	---
4	5023.10	5022.81	5023.13	5023.53	5023.74	5023.97	5024.15	5024.30	5023.95	5023.19	5022.49	---
5	5023.08	5022.79	5023.17	5023.54	5023.74	5024.10	5024.13	5024.30	5023.93	5023.16	5022.49	---
6	5023.07	5022.78	5023.11	5023.56	5023.74	5023.94	5024.16	5024.28	5023.90	5023.12	5022.42	---
7	5023.07	5022.81	5023.15	5023.58	5023.97	5024.02	5024.15	5024.29	5023.86	5023.08	5022.41	---
8	5023.06	5022.80	5023.23	5023.59	5023.81	5024.03	5024.11	5024.27	5023.95	5023.05	5022.42	5021.72
9	5023.03	5022.79	5023.16	5023.60	5023.80	5024.05	5024.18	5024.26	5023.81	5023.05	5022.42	---
10	5023.02	5022.78	5023.20	5023.61	5023.81	5024.08	5024.17	5024.26	5023.77	5023.03	5022.41	---
11	5023.02	5022.75	5023.17	5023.63	5023.83	5024.08	5024.17	5024.22	5023.76	5022.96	5022.39	---
12	5022.97	5022.83	5023.17	5023.63	5023.82	5024.03	5024.17	5024.23	5023.75	5022.98	5022.38	---
13	5022.98	5022.80	5023.19	5023.64	5023.85	5024.09	5024.18	5024.21	5023.72	5022.99	5022.36	---
14	5022.97	5022.76	5023.22	5023.62	5023.85	5024.09	5024.23	5024.22	5023.68	5022.92	5022.37	---
15	5022.96	5022.77	5023.21	5023.61	5023.89	5024.08	5024.16	5024.20	5023.65	5022.91	5022.30	---
16	5022.97	5022.78	5023.18	5023.62	5023.88	5024.04	5024.11	5024.20	5023.63	5022.86	5022.31	---
17	5022.97	5022.78	5023.25	5023.63	5023.94	5024.12	5024.17	5024.24	5023.58	5022.88	5022.30	---
18	5022.94	5022.75	5023.28	5023.64	5023.86	5024.10	5024.25	5024.18	5023.55	5022.87	5022.23	---
19	5022.97	5022.75	5023.24	5023.63	5023.94	5024.11	5024.25	5024.19	5023.54	5022.85	5022.24	---
20	5022.95	5023.18	5023.28	5023.63	5023.93	5024.14	5024.26	5024.15	5023.53	5022.82	5022.23	---
21	5022.94	5022.75	5023.28	5023.81	5023.93	5024.12	5024.26	5024.12	5023.49	5022.81	5022.21	---
22	5022.91	5022.79	5023.32	5023.65	5023.97	5024.09	5024.25	5024.18	5023.48	5022.76	5022.20	---
23	5022.91	5022.81	5023.29	5023.65	5023.92	5024.14	5024.28	5024.09	5023.47	5022.76	5022.19	---
24	5022.90	5022.91	5023.29	5023.65	5023.93	5024.15	5024.28	5024.09	5023.44	5022.72	5022.17	---
25	5022.88	5022.96	5023.29	5023.67	5023.91	5024.15	5024.27	5024.09	5023.41	5022.70	5022.20	---
26	5022.84	5022.93	5023.35	5023.72	5023.93	5024.17	5024.33	5024.05	5023.45	5022.68	5022.18	---
27	5022.82	5022.91	5023.36	5023.66	5023.93	5024.16	5024.29	5024.07	5023.34	5022.67	5022.19	---
28	5022.82	5022.90	5023.35	5023.68	5023.92	5024.16	5024.30	5024.04	5023.35	5022.65	---	---
29	5022.83	5022.95	5023.37	5023.69	---	5024.18	5024.34	5024.04	5023.30	5022.64	---	---
30	5022.87	5022.92	5023.42	5023.69	---	5024.16	5024.34	5023.99	5023.29	5022.62	---	e5021.46
31	5022.90	---	5023.47	5023.73	---	5024.17	---	5023.99	---	5022.61	e5022.03	---
MAX	5023.12	5023.18	5023.47	5023.81	5023.97	5024.18	5024.34	5024.32	5024.00	5023.26	5022.56	---
MIN	5022.82	5022.75	5022.95	5023.47	5023.72	5023.91	5024.11	5023.99	5023.29	5022.61	---	---
+	9700	9760	11490	12410	13100	14040	14690	13360	10950	8830	7090	5380
##	-630	+60	+1730	+920	+690	+950	+640	-1330	-2470	-2060	-1740	-1710

CAL YR 2001 MAX 5026.65 MIN 5022.75 ## -12090
WTR YR 2002 MAX 5024.34 MIN e5021.46 ## -4970

\+ Contents in acre-feet, at end of month.
Change in contents, in acre-feet.

10348800 LITTLE WASHOE LAKE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°19'45", long 119°48'00", in NE $^{1}/_{4}$ NW $^{1}/_{4}$ sec.24, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at outlet (head of Steamboat Creek), and 5.5 mi southwest of Steamboat.

DRAINAGE AREA.--83.8 mi^2.

PERIOD OF RECORD.--April 1963 to September 1970, October 1982 to current year (monthly observations only), October 1970 to September 1982 (daily elevations).

GAGE.--Nonrecording gage. Datum of gage is above NGVD of 1929. From October 1970 to September 1982, recording gage at same site and datum.

REMARKS.--Lake is formed by a natural basin supplemented by a control works downstream from the natural rim which provides storage regulation for both Little Washoe Lake and Washoe Lake. See additional remarks under "Washoe Lake (station 10348700)." See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,031.8 ft^3/s, April 1, 1986; no contents September 13 to December 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,026.4 ft, April 23; minimum observed, 5,022.3 ft, November 8.

MONTHEND ELEVATION, IN FEET ABOVE NGVD OF 1929, AND TOTAL CONTENTS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
September 30	5,023.7	100	--
October 31	5,022.7	38	-62
November 30	5,023.5	88	+50
December 31	5,024.7	180	+92
CALENDAR YEAR 2001	--	--	-180
January 31	5,025.0	200	+20
February 28	5,025.7	270	+70
March 31	5,026.1	310	+40
April 30	5,026.2	320	+10
May 31	5,025.7	270	-50
June 30	5,024.9	190	-80
July 31	5,024.0	130	-60
August 31	5,023.3	73	-57
September 30	5,022.9	46	-27
WATER YEAR 2002	--	--	-54

NOTE.--Monthend elevations are interpolated from readings made during the year.

PYRAMID AND WINNEMUCCA LAKES BASIN

10348850 GALENA CREEK AT GALENA STATE PARK, NV

LOCATION.--Lat 39°21'16", long 119°51'27", in SE $^1/_4$ NW $^1/_4$ sec.9, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank, at Galena State Park, 0.2 mi west of State Highway 431, and 3.5 mi northwest of Washoe City.

DRAINAGE AREA.--7.69 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft^3/s, January 2, 1997, gage height, 5.54 ft, from slope-area measurement of peak flow; minimum daily, 2.6 ft^3/s, September 4, 14-16, 18-20, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 40 ft^3/s and maximum (*):

		Discharge	Gage height			Discharge	Gage height
Date	Time	(ft^3/s)	(ft)	Date	Time	(ft^3/s)	(ft)
April 14	1845	41	6.11	May 31	1745	*78	*6.32
May 18	1745	56	6.20	June 8	2000	65	6.28

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.2	4.9	5.6	4.2	e5.4	6.0	7.4	32	6.3	4.0	3.6
2	3.2	3.0	e8.2	6.1	4.2	e5.6	6.0	7.7	22	e6.0	4.0	3.6
3	3.2	3.0	e6.0	6.2	4.2	e5.7	7.0	9.7	20	e5.9	3.8	3.5
4	3.0	3.0	e4.8	e6.5	4.1	6.7	8.3	12	21	e5.8	3.7	3.6
5	2.5	3.0	5.6	6.4	4.1	5.1	6.9	14	22	e5.7	3.6	3.6
6	2.6	3.0	5.4	8.3	4.1	6.0	6.0	17	22	5.5	3.7	4.0
7	2.6	2.9	5.4	6.5	4.2	6.3	6.0	18	29	5.9	3.6	3.9
8	2.6	2.8	5.2	5.5	4.3	e5.2	6.9	16	28	6.8	3.6	3.9
9	2.7	2.8	5.2	5.4	4.2	e5.1	6.8	16	30	6.3	3.5	3.8
10	2.7	3.1	5.1	5.2	4.2	4.5	6.3	15	25	6.2	3.5	3.7
11	2.8	4.5	5.1	5.2	4.2	4.5	7.5	14	16	6.2	3.6	3.8
12	2.8	4.2	4.9	5.1	4.2	4.6	8.7	17	20	6.3	3.5	3.7
13	2.9	3.9	4.9	e5.8	4.2	5.7	8.2	20	20	6.3	3.5	3.8
14	3.0	4.0	e4.5	6.3	4.2	e6.0	23	22	17	6.1	3.5	3.7
15	3.0	4.1	e4.8	e6.2	4.2	e5.7	19	25	15	5.4	3.4	3.7
16	3.0	3.8	4.8	e5.8	4.2	e5.6	12	23	15	4.8	3.5	4.0
17	3.3	3.5	4.8	e5.7	4.2	e5.3	10	30	17	5.3	3.7	4.1
18	3.4	3.4	4.8	e5.5	4.1	e5.0	9.3	33	14	5.3	3.6	4.1
19	3.4	3.5	4.8	e5.0	4.2	4.2	7.8	23	11	5.2	3.4	4.2
20	3.4	3.5	5.0	e4.8	4.7	4.2	7.4	18	11	4.9	3.5	4.1
21	3.4	4.2	4.8	4.5	4.7	4.5	7.6	13	11	4.8	3.7	4.0
22	3.5	5.5	4.9	4.4	5.0	4.5	8.3	11	11	4.7	3.7	4.1
23	3.5	4.5	4.8	4.2	4.9	4.4	9.6	11	11	4.5	3.6	4.1
24	3.6	6.9	4.9	4.2	4.5	4.2	10	12	9.8	4.5	3.5	4.0
25	3.7	e5.5	4.7	4.3	4.9	4.2	12	14	9.1	4.4	3.4	3.9
26	3.6	e5.4	4.7	4.5	6.3	4.4	12	15	8.9	4.2	3.4	3.9
27	3.7	e5.0	4.9	4.4	4.6	4.7	10	17	8.8	4.2	3.5	3.7
28	3.8	e5.0	5.1	4.2	5.5	5.1	9.3	19	8.4	4.2	3.7	4.0
29	3.9	5.4	5.2	4.2	---	5.6	9.2	23	7.9	4.1	3.7	4.0
30	5.4	e4.6	5.3	4.2	---	5.9	7.9	31	7.4	4.0	3.7	4.1
31	3.5	---	5.5	4.2	---	5.9	---	33	---	3.9	3.7	---
TOTAL	100.9	120.2	159.0	164.4	124.6	159.8	275.0	556.8	500.3	163.7	111.8	116.2
MEAN	3.25	4.01	5.13	5.30	4.45	5.15	9.17	18.0	16.7	5.28	3.61	3.87
MAX	5.4	6.9	8.2	8.3	6.3	6.7	23	33	32	6.8	4.0	4.2
MIN	2.5	2.8	4.5	4.2	4.1	4.2	6.0	7.4	7.4	3.9	3.4	3.5
AC-FT	200	238	315	326	247	317	545	1100	992	325	222	230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2002, BY WATER YEAR (WY)

MEAN	7.26	7.25	6.65	14.1	6.79	8.15	13.4	22.4	24.7	14.5	8.25	6.70
MAX	15.9	17.3	12.3	151	13.6	17.1	25.0	48.3	58.5	48.0	25.8	15.6
(WY)	1985	1985	1985	1997	1997	1997	1997	1997	1996	1995	1995	1995
MIN	3.25	4.01	4.47	3.86	4.06	5.15	5.04	7.31	4.90	3.59	3.23	3.03
(WY)	2002	2002	1992	1993	1993	2002	1991	1992	2001	2001	2001	1991

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1985 - 2002	
ANNUAL TOTAL	2139.7		2552.7			
ANNUAL MEAN	5.86		6.99		11.7	
HIGHEST ANNUAL MEAN					30.2	1997
LOWEST ANNUAL MEAN					5.21	1992
HIGHEST DAILY MEAN	20	Apr 10	33	May 18	900	Jan 2 1997
LOWEST DAILY MEAN	2.5	Oct 5	2.5	Oct 5	2.5	Oct 5 2001
ANNUAL SEVEN-DAY MINIMUM	2.6	Oct 5	2.6	Oct 5	2.6	Sep 14 1991
MAXIMUM PEAK FLOW			78	May 31	2610	Jan 2 1997
MAXIMUM PEAK STAGE			6.32	May 31	6.47	May 26 1999
ANNUAL RUNOFF (AC-FT)	4240		5060		8480	
10 PERCENT EXCEEDS	12		15		22	
50 PERCENT EXCEEDS	5.1		4.8		7.5	
90 PERCENT EXCEEDS	3.0		3.5		4.2	

e Estimated

10349300 STEAMBOAT CREEK AT STEAMBOAT, NV

LOCATION.--Lat 39°22'40", long 119°44'33", in SE $^1/_4$ SW $^1/_4$ sec.33, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, downstream of bridge at Rhodes Road, 250 ft upstream from Steamboat Ditch, and 11 mi southeast of Reno.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,600 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and daily discharges from July 29 to September 30, which are poor. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700). See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft^3/s, February 17, 1986, gage height, 6.79 ft, from rating curve extended above 954 ft^3/s, on basis of slope-area measurement of peak flow; no flow, September 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft^3/s, November 24, gage height, 1.85 ft; no flow, August 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.01	0.19	2.5	4.0	5.4	2.6	2.0	7.1	12	1.5	0.03	e0.01
2	e0.02	0.24	12	4.4	5.3	2.6	2.1	7.3	11	1.1	0.03	e0.01
3	e0.02	0.26	6.1	5.0	4.0	2.6	2.0	7.6	10	0.67	0.03	e0.01
4	e0.01	0.27	4.8	4.0	3.8	2.6	2.2	8.5	9.2	1.4	0.02	e0.01
5	e0.01	0.22	5.0	3.8	3.8	2.3	3.2	6.6	9.7	1.3	0.02	e0.01
6	e0.02	0.19	4.7	4.1	3.8	2.4	2.6	4.6	11	1.1	0.11	e0.01
7	e0.02	0.21	4.2	4.0	4.0	4.2	2.0	5.3	9.5	1.1	0.09	e0.01
8	e0.03	0.24	4.0	3.7	5.6	3.2	2.0	4.9	11	0.63	0.04	e0.01
9	0.04	0.26	3.9	3.8	4.0	2.8	2.1	3.9	9.8	0.51	0.02	e0.01
10	0.08	0.27	3.9	3.7	3.8	2.7	2.2	4.7	8.2	0.24	0.01	e0.01
11	0.09	0.34	3.7	3.6	3.8	2.5	2.4	4.9	7.9	0.21	e0.01	e0.01
12	0.10	0.38	3.6	3.5	3.7	2.4	2.4	5.7	6.8	0.15	e0.01	e0.01
13	0.09	0.40	3.3	3.3	3.7	2.4	2.5	5.5	6.9	0.69	e0.01	e0.01
14	0.12	0.44	4.4	3.2	3.9	2.5	2.3	5.9	6.3	0.80	e0.01	e0.01
15	0.20	0.52	3.7	3.0	3.6	2.5	2.7	6.5	6.0	0.41	e0.01	e0.01
16	0.16	0.54	3.9	3.0	3.8	2.6	2.2	8.1	5.6	0.37	e0.01	e0.01
17	0.10	0.52	4.7	3.3	3.6	2.5	2.2	8.9	4.7	0.22	e0.01	e0.01
18	0.11	0.64	4.1	3.4	3.3	2.3	3.0	10	4.4	0.49	e0.01	e0.01
19	0.10	0.72	3.6	4.1	3.3	2.2	5.6	11	4.2	0.49	e0.01	e0.01
20	e0.03	0.68	3.6	4.3	3.3	2.0	5.5	9.7	5.0	0.61	e0.01	e0.01
21	e0.03	0.66	3.6	4.8	3.1	1.9	5.2	9.7	4.1	0.68	e0.01	e0.01
22	e0.03	1.4	3.4	4.4	3.0	1.9	4.1	13	4.2	0.58	e0.01	e0.01
23	e0.03	0.82	3.6	4.4	2.8	2.2	2.9	12	4.4	0.33	0.00	e0.01
24	0.04	10	3.3	5.4	2.8	2.5	3.5	8.1	3.8	0.33	e0.01	e0.01
25	0.07	4.4	3.3	5.6	2.7	2.4	4.7	7.7	2.8	0.29	e0.01	e0.01
26	0.08	2.5	3.4	5.4	3.0	1.9	6.5	7.6	2.7	0.30	e0.01	e0.01
27	0.09	2.1	3.4	5.3	2.8	2.2	4.9	7.5	2.5	0.15	e0.01	e0.01
28	0.11	2.1	3.8	4.9	2.7	2.4	3.4	7.7	2.8	0.05	e0.01	e0.01
29	0.12	3.1	4.4	5.2	---	1.9	4.0	8.5	2.1	0.08	e0.01	e0.01
30	0.17	2.4	3.9	5.4	---	1.9	6.1	9.7	2.0	0.07	e0.01	e0.01
31	0.19	---	4.7	5.5	---	1.8	---	11	---	0.04	e0.01	---
TOTAL	2.32	37.01	130.5	131.5	102.4	74.9	98.5	239.2	190.6	16.89	0.60	0.30
MEAN	0.075	1.234	4.210	4.242	3.657	2.416	3.283	7.716	6.353	0.545	0.019	0.010
MAX	0.20	10	12	5.6	5.6	4.2	6.5	13	12	1.5	0.11	0.01
MIN	0.01	0.19	2.5	3.0	2.7	1.8	2.0	3.9	2.0	0.04	0.00	0.01
AC-FT	4.6	73	259	261	203	149	195	474	378	34	1.2	0.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	7.559	9.137	12.57	21.95	28.18	29.46	27.28	31.94	38.26	21.55	11.02	8.304
MAX	41.6	85.0	149	247	241	187	146	132	223	176	101	57.5
(WY)	1984	1984	1984	1997	1997	1986	1986	1983	1983	1983	1983	1983
MIN	0.075	1.12	2.23	3.04	2.20	2.23	1.61	0.68	0.61	0.21	0.010	0.010
(WY)	2002	1991	1991	1962	1991	2001	1988	1992	1992	1988	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1962 - 2002	
ANNUAL TOTAL	700.19		1024.72			
ANNUAL MEAN	1.918		2.807		20.54	
HIGHEST ANNUAL MEAN					115	1983
LOWEST ANNUAL MEAN					1.92	1992
HIGHEST DAILY MEAN	12	Dec 2	13	May 22	1220	Feb 17 1986
LOWEST DAILY MEAN	0.00	Aug 2	0.00	Aug 23	0.00	Sep 9 1977
ANNUAL SEVEN-DAY MINIMUM	0.01	Aug 2	0.01	Aug 17	0.00	Sep 9 1977
MAXIMUM PEAK FLOW			36	Nov 24	3600	Feb 17 1986
MAXIMUM PEAK STAGE			1.85	Nov 24	6.79	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	1390		2030		14880	
10 PERCENT EXCEEDS	4.0		6.5		66	
50 PERCENT EXCEEDS	1.6		2.5		6.2	
90 PERCENT EXCEEDS	0.01		0.01		1.1	

e Estimated

10349495 STEAMBOAT CREEK AT GEIGER GRADE NEAR STEAMBOAT, NV

LOCATION.--Lat 39°24'19", long 119°44'38", in NE $^1/_4$ NW $^1/_4$ sec.28, T.18 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank 0.1 miles east of the junction of State Route 341 (Geiger Grade) and U.S. 395 nr Steamboat, NV.

DRAINAGE AREA.-- 140 mi^2, approximately.

PERIOD OF RECORD.--May to September 1982, May 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,543 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700). See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 135 ft^3/s, June 19, 1982; minimum daily, 0.23 ft^3/s, June 24, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum daily discharge, 3,600 ft^3/s, February 17, 1986, from slope-area determination in vicinity of present gage.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 15 ft^3/s, November 24, gage height, 7.37 ft; minimum daily, 0.02 ft^3/s, July 4-5 and 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	0.42	2.6	3.5	2.8	1.9	2.1	0.47	0.27	0.07	0.03	0.10
2	1.1	0.44	6.1	3.7	2.8	2.0	2.2	0.51	0.23	0.05	0.06	0.09
3	1.1	0.44	3.0	3.4	2.3	2.1	2.3	0.52	0.17	0.03	0.08	0.09
4	1.1	0.45	2.6	2.8	2.2	2.1	2.2	0.89	0.14	0.02	0.09	0.08
5	1.1	0.46	3.1	2.6	2.2	2.1	3.0	0.94	0.17	0.02	0.12	0.13
6	1.0	0.47	3.1	2.7	2.2	2.1	2.3	0.84	0.24	0.04	0.13	0.14
7	1.0	0.48	3.0	2.4	2.2	3.2	1.4	0.86	0.25	0.05	0.13	0.18
8	1.0	0.49	2.9	1.7	3.6	2.7	1.2	0.87	0.24	0.05	0.12	0.21
9	1.1	0.50	2.9	1.7	2.8	2.4	0.30	0.87	0.22	0.05	0.12	0.19
10	0.93	0.51	2.9	1.6	2.6	2.4	0.21	0.93	0.12	0.04	0.11	0.17
11	0.57	0.53	2.8	1.6	2.6	2.3	0.19	0.93	0.12	0.03	0.10	0.16
12	0.46	0.53	2.8	1.5	2.6	2.3	0.17	0.91	0.10	0.04	0.08	0.17
13	0.43	0.52	2.7	1.5	2.6	2.3	0.16	0.67	0.11	0.08	0.07	0.17
14	0.40	0.51	3.1	1.5	2.7	2.4	0.15	0.15	0.16	0.10	0.11	0.16
15	0.40	e0.53	2.7	1.3	2.6	2.4	0.14	0.11	0.18	0.11	0.11	0.15
16	0.39	e0.55	2.7	1.4	2.6	2.4	0.15	0.11	0.20	0.11	0.09	0.18
17	0.37	0.56	3.0	1.5	2.6	2.4	0.14	0.08	0.20	0.09	0.08	0.24
18	0.35	0.57	2.8	1.5	2.5	2.3	0.17	0.21	0.18	0.14	0.08	0.26
19	0.37	0.59	2.6	1.7	2.4	2.2	0.20	0.19	0.18	0.16	0.10	0.29
20	0.37	0.59	2.6	1.8	2.4	2.2	0.19	0.19	0.22	0.11	0.10	0.37
21	0.35	0.61	1.8	2.3	2.3	2.1	0.85	0.18	0.30	0.09	0.11	0.40
22	0.37	0.64	1.8	2.4	2.3	2.1	1.5	0.19	0.31	0.10	0.13	0.38
23	0.37	0.56	1.8	2.4	2.2	2.2	0.73	0.20	0.30	0.08	0.13	0.43
24	0.39	4.8	1.8	2.6	2.3	2.4	0.66	0.18	0.32	0.06	0.12	0.43
25	0.39	4.5	1.8	2.8	2.4	2.3	0.33	0.13	0.42	0.06	0.12	0.42
26	0.40	2.4	2.4	2.7	2.1	2.1	0.37	0.20	0.49	0.07	0.13	0.48
27	0.40	1.6	2.8	2.8	1.8	2.1	0.35	0.29	0.50	0.06	0.12	0.51
28	0.40	1.6	3.0	2.6	1.9	2.4	0.32	0.30	0.47	0.04	0.11	0.50
29	0.41	2.8	3.5	2.7	---	2.0	0.40	0.32	0.40	0.04	0.11	0.51
30	0.43	2.6	2.6	2.5	---	2.1	0.39	0.22	0.12	0.03	0.10	0.57
31	0.44	---	3.1	2.6	---	2.0	---	0.20	---	0.02	0.10	---
TOTAL	19.09	32.25	86.4	69.8	68.6	70.0	24.77	13.66	7.33	2.04	3.19	8.16
MEAN	0.62	1.07	2.79	2.25	2.45	2.26	0.83	0.44	0.24	0.066	0.10	0.27
MAX	1.2	4.8	6.1	3.7	3.6	3.2	3.0	0.94	0.50	0.16	0.13	0.57
MIN	0.35	0.42	1.8	1.3	1.8	1.9	0.14	0.08	0.10	0.02	0.03	0.08
AC-FT	38	64	171	138	136	139	49	27	15	4.0	6.3	16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

MEAN	0.62	1.07	2.79	2.25	2.45	2.26	0.83	30.8	29.8	22.6	5.04	6.08
MAX	0.62	1.07	2.79	2.25	2.45	2.26	0.83	61.2	88.8	67.2	14.5	16.7
(WY)	2002	2002	2002	2002	2002	2002	2002	1982	1982	1982	1982	1982
MIN	0.62	1.07	2.79	2.25	2.45	2.26	0.83	0.44	0.24	0.066	0.10	0.27
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002	
ANNUAL TOTAL	405.29			
ANNUAL MEAN	1.11		1.11	
HIGHEST ANNUAL MEAN			1.11	2002
LOWEST ANNUAL MEAN			1.11	2002
HIGHEST DAILY MEAN	6.1	Dec 2	135	Jun 19 1982
LOWEST DAILY MEAN	0.02	Jul 4	0.02	Jul 4 2002
ANNUAL SEVEN-DAY MINIMUM	0.04	Jul 2	0.04	Jul 2 2002
MAXIMUM PEAK FLOW	15	Nov 24	135	Jun 19 1982
MAXIMUM PEAK STAGE	7.39	Nov 24		
ANNUAL RUNOFF (AC-FT)	804		804	
10 PERCENT EXCEEDS	2.7		2.7	
50 PERCENT EXCEEDS	0.50		0.50	
90 PERCENT EXCEEDS	0.09		0.09	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10349849 STEAMBOAT CREEK AT SHORT LANE AT RENO, NV

LOCATION.--Lat 39°27'57", long 119°43'39", in NE $^1/_4$ SW $^1/_4$ sec.34, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank, downstream of culvert over Short Lane.

DRAINAGE AREA.-- Not determined.

PERIOD OF RECORD.--April to September 1982, October 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,415 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700). See schematic diagram of Pyramid and Winnemucca Lakes Basin. Records furnished by Washoe County for 1982 water year and reviewed by U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 149 ft^3/s, June 20, 1982; minimum daily, 1.4 ft^3/s, July 5-6, 2001.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 63 ft^3/s, December 2, gage height, 2.74 ft; minimum daily, 1.9 ft^3/s, August 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.0	13	14	12	13	9.2	11	9.6	4.8	1.9	3.5
2	3.5	4.1	35	14	13	13	8.7	11	13	3.3	2.2	2.9
3	3.5	4.2	34	17	12	12	9.4	9.6	13	4.2	4.2	3.2
4	3.8	4.2	23	14	11	12	10	9.4	10	5.4	4.0	3.4
5	3.9	4.2	19	13	11	12	11	10	13	3.0	2.8	2.7
6	4.3	4.2	17	13	11	13	11	9.6	14	2.8	2.2	2.8
7	5.4	4.2	15	12	11	17	11	9.8	14	2.5	3.1	2.9
8	5.4	4.3	14	11	17	15	11	10	11	2.6	2.5	5.1
9	4.3	4.9	13	13	12	14	9.9	9.2	9.7	3.0	2.1	6.5
10	6.5	5.2	13	13	11	13	8.7	6.6	10	2.3	2.1	6.5
11	4.8	4.9	13	12	11	11	8.8	7.5	9.7	2.1	2.3	6.3
12	3.7	4.8	13	12	11	11	8.4	6.8	9.0	3.3	4.0	6.2
13	3.6	4.9	13	11	11	10	8.5	6.4	7.4	2.8	4.0	6.1
14	3.6	6.1	16	11	12	12	9.0	5.3	7.5	3.5	3.1	7.7
15	3.6	5.5	14	11	12	11	9.1	5.0	8.9	3.9	2.5	6.4
16	3.6	5.9	13	10	13	11	11	4.8	12	3.2	2.6	5.8
17	3.5	5.2	13	11	13	11	11	4.7	13	3.0	3.0	4.6
18	3.5	5.0	14	10	13	9.9	13	7.2	15	3.0	2.9	3.6
19	3.5	5.0	12	10	13	9.7	15	10	14	3.8	3.2	4.1
20	3.6	4.9	12	11	12	11	13	15	5.1	3.3	2.7	4.6
21	3.6	4.4	12	12	13	11	13	12	5.3	2.8	2.4	4.5
22	3.6	5.3	12	11	12	10	12	10	7.1	3.1	2.7	5.8
23	3.6	5.7	12	11	12	10	10	19	9.0	3.1	3.6	6.7
24	3.6	15	12	12	12	11	9.6	17	8.4	2.4	3.8	7.2
25	3.7	17	11	13	12	11	8.7	11	3.9	2.2	3.2	7.4
26	3.7	11	12	13	15	11	8.9	10	5.3	2.5	3.7	9.0
27	3.7	10	12	13	14	10	9.3	13	4.7	2.0	4.3	11
28	3.7	10	13	12	14	10	8.7	10	3.8	2.4	3.3	8.7
29	3.6	12	17	12	---	9.7	13	9.6	4.7	3.6	3.0	7.2
30	3.7	14	14	12	---	8.8	13	9.9	6.1	3.1	2.9	5.6
31	4.1	---	15	12	---	8.5	---	10	---	2.1	3.5	---
TOTAL	121.8	200.1	471	376	346	352.6	312.9	300.4	277.2	95.1	93.8	168.0
MEAN	3.93	6.67	15.2	12.1	12.4	11.4	10.4	9.69	9.24	3.07	3.03	5.60
MAX	6.5	17	35	17	17	17	15	19	15	5.4	4.3	11
MIN	3.5	4.0	11	10	11	8.5	8.4	4.7	3.8	2.0	1.9	2.7
AC-FT	242	397	934	746	686	699	621	596	550	189	186	333

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002, BY WATER YEAR (WY)

MEAN	6.18	8.91	14.2	13.0	14.4	13.6	9.12	30.1	38.3	29.4	9.88	14.4
MAX	8.43	11.1	15.2	13.8	16.4	15.8	10.4	74.1	103	82.6	24.2	34.6
(WY)	2001	2001	2002	2001	2001	2001	2002	1982	1982	1982	1982	1982
MIN	3.93	6.67	13.2	12.1	12.4	11.4	7.81	6.49	3.09	2.47	2.43	3.01
(WY)	2002	2002	2001	2002	2002	2002	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002	
ANNUAL TOTAL	2941.4		3114.9			
ANNUAL MEAN	8.06		8.53		8.58	
HIGHEST ANNUAL MEAN					8.64	2001
LOWEST ANNUAL MEAN					8.53	2002
HIGHEST DAILY MEAN	35	Dec 2	35	Dec 2	149	Jun 20 1982
LOWEST DAILY MEAN	1.4	Jul 5	1.9	Aug 1	1.4	Jul 5 2001
ANNUAL SEVEN-DAY MINIMUM	1.5	Jul 1	2.4	Aug 5	1.5	Jul 1 2001
MAXIMUM PEAK FLOW			63	Dec 2	149	Jun 20 1982
MAXIMUM PEAK STAGE			2.74	Dec 2		
ANNUAL RUNOFF (AC-FT)	5830		6180		6220	
10 PERCENT EXCEEDS	16		13		15	
50 PERCENT EXCEEDS	5.3		9.2		8.7	
90 PERCENT EXCEEDS	2.3		3.0		2.5	

10349980 STEAMBOAT CREEK AT CLEANWATER WAY NEAR RENO, NV

LOCATION.--Lat 39°30'47", long 119°42'41", in SW $^1/_4$ NW $^1/_4$ sec.14, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank, 0.75 mi above confluence with Truckee River, and 2.0 mi east of Reno.

DRAINAGE AREA.--244 mi^2.

PERIOD OF RECORD.--November 1992 to December 1996, January 1998 to current year. Records kept by Federal Court Watermaster July 1976 to September 1992. Prior to November 1992, published as "at Kimlick Lane."

GAGE.--Water-stage recorder. Datum of gage is 4,375 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700), Steamboat Ditch, and other municipal ponds. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft^3/s, March 10, 1995, gage height, 13.09 ft; maximum gage height, 21.90 ft, January 2, 1997, backwater from Truckee River; minimum daily, 0.63 ft^3/s, August 21, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 369 ft^3/s, December 2, gage height, 7.86 ft; minimum daily, 11 ft^3/s, October 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	13	27	40	26	35	31	32	39	23	41	28
2	24	14	211	39	28	35	28	29	40	21	81	27
3	27	14	161	58	30	37	30	25	42	23	59	25
4	24	17	75	39	26	35	35	27	38	34	25	23
5	24	17	51	34	23	31	35	29	39	39	19	26
6	25	15	43	31	24	40	38	24	43	38	18	20
7	25	14	38	33	26	56	38	29	43	40	18	21
8	24	13	35	32	41	44	33	31	40	39	17	27
9	22	16	30	49	32	39	32	26	37	40	15	28
10	24	18	33	35	28	40	30	27	40	41	17	29
11	23	15	31	29	29	36	e30	36	36	38	17	29
12	20	18	31	28	25	36	29	32	38	41	20	29
13	19	16	28	30	25	36	29	25	33	42	20	32
14	18	17	42	28	28	44	29	24	32	44	17	32
15	18	17	35	25	29	43	29	23	33	45	16	34
16	15	17	28	24	30	36	29	19	33	44	17	29
17	14	16	34	26	35	36	27	21	37	40	16	29
18	13	15	29	28	34	35	35	20	35	40	16	29
19	15	16	29	25	32	31	46	26	36	43	16	25
20	14	16	29	24	31	30	39	30	26	42	16	30
21	13	16	26	28	35	33	35	37	23	41	21	33
22	14	17	27	23	35	31	32	37	26	40	22	34
23	12	19	28	21	35	28	30	40	28	36	23	35
24	11	100	29	22	36	34	28	37	27	42	23	37
25	12	78	24	24	36	34	27	36	23	39	24	36
26	12	37	22	27	35	32	38	38	22	35	28	34
27	11	24	27	26	35	29	36	44	28	39	26	43
28	13	23	39	25	35	32	28	48	25	40	25	42
29	14	22	67	23	---	31	70	42	24	40	22	42
30	14	27	38	27	---	31	44	36	24	40	23	42
31	20	---	45	26	---	32	---	37	---	35	25	---
TOTAL	562	677	1392	929	864	1102	1020	967	990	1184	743	930
MEAN	18.13	22.57	44.90	29.97	30.86	35.55	34.00	31.19	33.00	38.19	23.97	31.00
MAX	28	100	211	58	41	56	70	48	43	45	81	43
MIN	11	13	22	21	23	28	27	19	22	21	15	20
AC-FT	1110	1340	2760	1840	1710	2190	2020	1920	1960	2350	1470	1840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2002, BY WATER YEAR (WY)

MEAN	35.23	33.31	45.44	48.03	66.28	79.32	64.93	94.35	81.73	53.56	38.58	43.53
MAX	66.6	61.0	131	67.1	135	148	132	194	149	108	66.7	90.2
(WY)	1999	1999	1997	1999	1999	1996	1998	1996	1998	1995	1999	1998
MIN	3.64	12.4	13.0	27.3	27.6	30.0	22.6	31.2	21.7	7.11	1.82	2.11
(WY)	1995	1995	1995	1994	1994	1994	1993	2002	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1993 - 2002	
ANNUAL TOTAL	11653		11360			
ANNUAL MEAN	31.93		31.12		54.87	
HIGHEST ANNUAL MEAN					94.2	1996
LOWEST ANNUAL MEAN					22.5	1994
HIGHEST DAILY MEAN	211	Dec 2	211	Dec 2	1140	Mar 11 1995
LOWEST DAILY MEAN	11	Oct 24	11	Oct 24	0.63	Aug 21 1994
ANNUAL SEVEN-DAY MINIMUM	12	Oct 21	12	Oct 21	0.93	Aug 15 1994
MAXIMUM PEAK FLOW			369	Dec 2	1590	Mar 10 1995
MAXIMUM PEAK STAGE			7.86	Dec 2	21.90	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	23110		22530		39750	
10 PERCENT EXCEEDS	41		42		123	
50 PERCENT EXCEEDS	32		29		38	
90 PERCENT EXCEEDS	18		17		18	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'14", long 119°42'00", in SW $^1/_4$ SE $^1/_4$ sec.11, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 0.4 mi south of Vista, 600 ft downstream from Steamboat Creek, on the northeast side of Reno-Sparks Sewage Treatment Plant, and at mi 53.38 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,430 mi^2.

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,367.60 ft above NGVD of 1929, from levels from U.S. Coast and Geodetic Benchmark. Prior to April 16, 1907, nonrecording gages at several sites at various datums in vicinity of previous gage site 1.2 mi downstream. May to December 1907 reference point on railroad bridge 1.0 mi downstream. January 1932 to December 1954, October 1958 to August 17, 1959, water-stage recorder at site 0.9 mi downstream at datum 5.59 ft higher. August 18, 1959 to December 9, 1959, staff gage at different datum. December 10 1959 to September 30, 1993, at site 1.2 mi downstream at datum 0.99 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300), and Boca (station 10344490) Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft^3/s, February 1, 1963, gage height, 16.76 ft, maximum gage height, 24.16 ft, January 2, 1997; minimum daily, 7.0 ft^3/s August 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known. 17.04 ft from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft^3/s, April 15, gage height, 7.34 ft; minimum daily, 175 ft^3/s, August 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	372	359	362	427	361	465	693	1050	1530	258	327	253
2	393	354	760	404	349	449	801	959	1450	254	342	270
3	370	343	620	451	344	436	861	920	1310	342	306	267
4	363	336	407	389	329	430	985	975	1180	380	259	246
5	358	333	378	373	314	446	1090	1040	1180	399	238	289
6	364	308	403	364	317	490	1050	1060	1120	416	204	312
7	359	297	406	516	341	682	996	1100	1060	416	175	321
8	379	331	375	463	430	595	985	1040	1020	468	183	324
9	384	327	286	422	395	544	1120	975	957	453	179	328
10	401	343	268	368	373	520	1080	989	856	434	185	330
11	346	370	308	360	378	504	1180	947	710	426	187	326
12	342	370	368	350	393	482	1230	922	625	430	197	318
13	352	374	383	335	405	500	1300	937	577	430	191	326
14	346	346	431	359	416	493	1350	969	594	424	184	349
15	336	325	394	342	420	435	1600	937	575	455	184	347
16	333	348	389	329	414	419	1300	986	530	420	183	347
17	307	357	427	374	424	388	1150	991	510	423	185	351
18	302	352	391	344	412	390	1140	1060	540	503	180	319
19	305	338	378	345	381	388	1030	1080	483	501	180	316
20	312	348	386	324	439	392	965	1020	296	432	180	337
21	292	336	415	345	498	403	943	929	290	398	184	364
22	312	487	404	341	465	403	940	836	303	390	198	362
23	335	440	414	332	494	446	992	932	308	369	189	389
24	334	548	405	337	508	481	1070	906	342	367	192	370
25	328	622	395	359	484	473	1140	882	274	347	201	372
26	314	461	401	357	467	455	1320	916	317	369	205	364
27	291	396	401	350	469	450	1210	932	335	401	207	386
28	281	377	419	335	479	487	1240	923	297	377	199	377
29	311	369	467	321	---	533	1390	917	270	366	237	386
30	307	375	391	317	---	582	1260	983	247	364	241	406
31	385	---	454	327	---	656	---	1310	---	346	248	---
TOTAL	10514	11270	12686	11360	11499	14817	33411	30423	20086	12358	6550	10052
MEAN	339.2	375.7	409.2	366.5	410.7	478.0	1114	981.4	669.5	398.6	211.3	335.1
MAX	401	622	760	516	508	682	1600	1310	1530	503	342	406
MIN	281	297	268	317	314	388	693	836	247	254	175	246
AC-FT	20850	22350	25160	22530	22810	29390	66270	60340	39840	24510	12990	19940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2002, BY WATER YEAR (WY)

MEAN	431.5	556.2	679.5	766.3	909.1	1026	1320	1705	1224	535.0	353.4	382.6
MAX	1304	2650	3705	6858	4066	5420	4979	5643	5740	3007	1476	1529
(WY)	1908	1984	1984	1997	1986	1986	1907	1952	1983	1983	1907	1983
MIN	41.7	87.7	94.9	122	121	197	233	103	46.2	79.8	36.7	28.8
(WY)	1934	1933	1933	1991	1991	1933	1977	1934	1934	1992	1935	1935

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1899 - 2002	
ANNUAL TOTAL	166685		185026			
ANNUAL MEAN	456.7		506.9		824.4	
HIGHEST ANNUAL MEAN					2786	1983
LOWEST ANNUAL MEAN					158	1992
HIGHEST DAILY MEAN	760	Dec 2	1600	Apr 15	17400	Feb 1 1963
LOWEST DAILY MEAN	268	Dec 10	175	Aug 7	7.0	Aug 26 1935
ANNUAL SEVEN-DAY MINIMUM	309	Oct 16	182	Aug 14	9.7	Aug 21 1935
MAXIMUM PEAK FLOW			1740	Apr 15	18900	Feb 1 1963
MAXIMUM PEAK STAGE			7.34	Apr 15	24.16	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	330600		367000		597200	
10 PERCENT EXCEEDS	593		1020		1880	
50 PERCENT EXCEEDS	438		389		503	
90 PERCENT EXCEEDS	343		270		196	

PYRAMID AND WINNEMUCCA LAKES BASIN

10350340 TRUCKEE RIVER NEAR TRACY, NV

LOCATION.--Lat 39°33'24", long 119°33'08", in NE $^1/_4$ SE $^1/_4$ sec.31, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank, upstream side of bridge, 1.5 mi upstream from Tracy powerplant, 11.5 mi east of Sparks and at mi 42.75 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,580 mi^2.

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,300 ft above NGVD of 1929, from topographic map. Replaces gage (10350400) Truckee River below Tracy, operated 1.5 mi downstream and destroyed in January 1997 flood. Low flows not equivalent due to diversions between sites.

REMARKS.--Records fair except for July through September daily discharges which are poor. Heavy aquatic growth in channel during this period created an unreliable stage-discharge relationship. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, and several powerplants. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,980 ft^3/s, March 24, 1998, gage height, 13.60 ft; minimum daily, 179 ft^3/s, August 7, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft^3/s, April 15, gage height, 9.54 ft; maximum gage-height, 9.64 ft, June 1, backwater from aquatic growth; minimum daily, 179 ft^3/s, August 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382	402	374	431	334	427	682	1160	1670	290	322	333
2	408	386	742	393	327	412	802	1040	1580	265	355	352
3	394	377	728	452	324	396	878	991	1450	355	357	348
4	394	372	438	402	310	391	1010	1040	1310	383	267	330
5	390	368	386	372	294	399	1140	1120	1290	384	245	354
6	394	346	410	359	299	426	1100	1150	1210	397	226	383
7	395	331	414	494	306	645	1050	1190	1130	390	179	406
8	396	353	392	466	382	583	1030	1110	1080	396	184	403
9	415	355	326	425	364	512	1170	1020	1040	389	188	400
10	437	355	282	367	344	487	1140	1010	899	357	197	408
11	358	385	298	353	345	472	1220	984	730	333	211	397
12	353	388	371	347	356	442	1300	939	630	316	226	385
13	369	386	385	335	363	452	1370	947	564	315	231	388
14	367	372	421	347	379	452	1410	986	586	300	230	405
15	367	356	402	336	382	409	1690	971	581	317	227	406
16	358	368	381	325	379	368	1420	1010	547	302	237	406
17	342	378	413	354	385	354	1240	1020	522	305	239	398
18	334	377	399	335	382	348	1200	1100	553	381	240	371
19	341	360	371	336	349	346	1120	1150	523	385	237	358
20	346	371	372	308	383	348	1020	1080	354	334	234	363
21	336	355	396	337	464	357	1010	1010	320	312	241	403
22	344	467	396	327	425	357	1010	879	348	312	252	397
23	371	503	401	320	447	388	1040	980	349	307	247	413
24	375	551	397	318	477	433	1120	960	363	308	254	401
25	366	683	381	343	446	431	1200	919	325	303	251	399
26	359	495	388	332	430	413	1400	967	322	315	271	383
27	331	416	385	334	426	406	1310	965	346	353	261	401
28	328	391	391	325	442	435	1320	967	321	353	265	398
29	332	381	467	297	---	489	1480	965	309	343	288	401
30	349	386	387	304	---	548	1380	1040	293	354	318	415
31	405	---	436	306	---	629	---	1350	---	357	326	---
TOTAL	11436	12014	12730	11080	10544	13555	35262	32020	21545	10511	7806	11605
MEAN	369	400	411	357	377	437	1175	1033	718	339	252	387
MAX	437	683	742	494	477	645	1690	1350	1670	397	357	415
MIN	328	331	282	297	294	346	682	879	293	265	179	330
AC-FT	22680	23830	25250	21980	20910	26890	69940	63510	42730	20850	15480	23020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

MEAN	481	485	583	583	900	1378	1474	1712	1418	673	448	507
MAX	693	606	958	904	2345	2507	2266	3098	3296	1463	632	718
(WY)	1999	1999	1999	1999	1999	1997	1998	1999	1998	1998	1998	1998
MIN	369	400	411	357	377	437	487	395	414	339	252	387
(WY)	2002	2002	2002	2002	2002	2002	2001	2001	2001	2002	2002	2002

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1997 - 2002	
ANNUAL TOTAL	164293		190108			
ANNUAL MEAN	450		521		863	
HIGHEST ANNUAL MEAN					1387	1999
LOWEST ANNUAL MEAN					471	2001
HIGHEST DAILY MEAN	742	Dec 2	1690	Apr 15	5220	Mar 24 1998
LOWEST DAILY MEAN	282	Dec 10	179	Aug 7	179	Aug 7 2002
ANNUAL SEVEN-DAY MINIMUM	331	May 23	202	Aug 6	202	Aug 6 2002
MAXIMUM PEAK FLOW			1890	Apr 15	6980	Mar 24 1998
MAXIMUM PEAK STAGE			9.64	Jun 1	13.60	Mar 24 1998
ANNUAL RUNOFF (AC-FT)	325900		377100		625100	
10 PERCENT EXCEEDS	589		1080		2070	
50 PERCENT EXCEEDS	421		386		524	
90 PERCENT EXCEEDS	361		303		375	

10350500 TRUCKEE RIVER AT CLARK, NV

LOCATION--Lat 39°33'56", long 119°29'08", in SE $^1/_4$ SW $^1/_4$ sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on left bank, about 250 ft downstream from Clark Bridge, about 2 mi downstream from cooling pond outlet at Tracy powerplant, about 0.2 mi west of Clark, and at mi 38.60, upstream from Marble Bluff Dam. Prior to January 16, 1985, at site about 200 ft upstream on right bank.

DRAINAGE AREA.--1,600 mi^2, approximately.

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1983 to September 1988; September 1993 to September 1998; November 2000 to current year.

WATER TEMPERATURE: June 1972 to September 1977; June 1978 to September 1998; November 2000 to current year.

INSTRUMENTATION.--Specific-conductance recorder from October 1983 to September 1988, hourly; August 1993 to September 1998, ; November 2000 to current year, four times per hour. Temperature recorder from June 1972 to September 1977, continuous; June 1978 to February 1980, four times per hour; March 1980 to May 1982, two times per hour; June 1982 to May 1990, hourly; June to October 1990, four times per hour; November 1990 to July 1993, hourly; August 1993 to September 1998; November 2000 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In April 1993, station incorporated into the National Water-Quality Assessment Program (NAWQA) to monitor water-quality conditions in the Pyramid and Winnemucca Lakes Basin. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 709 microsiemens, November 6, 1994; minimum, 62 microsiemens, February 17, 1986.

WATER TEMPERATURE: Maximum recorded, 29.5°C, June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days during winter months of some years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 364 microsiemens, September 1; minimum recorded, 116 microsiemens, June 1, 2.

WATER TEMPERATURE: Maximum recorded, 26.0°C, July 11, August 14; minimum recorded, 0.5°C, January 20, 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
OCT													
16...	1120	ENVIRONMENTAL	342	656	8.7	96	8.1	280	--	12.9	81	99	--
25...	1330	ENVIRONMENTAL	351	657	11.1	118	8.7	230	13.0	11.5	--	--	--
NOV													
28...	1115	ENVIRONMENTAL	379	650	10.6	94	8.0	253	2.5	3.7	72	87	--
DEC													
19...	1145	ENVIRONMENTAL	400	650	11.2	100	8.2	276	2.5	4.0	80	97	--
JAN													
23...	1130	ENVIRONMENTAL	343	662	12.2	105	7.8	283	1.0	3.0	81	98	--
FEB													
20...	1120	ENVIRONMENTAL	374	658	11.4	113	8.0	283	13.0	8.5	80	97	--
MAR													
19...	1125	ENVIRONMENTAL	354	657	15.6	149	8.3	279	15.5	7.0	55	67	--
APR													
18...	1145	ENVIRONMENTAL	1370	654	11.0	104	7.9	130	6.5	6.5	41	50	--
29...	1315	ENVIRONMENTAL	1540	650	10.0	104	7.8	129	9.0	10.0	--	--	--
MAY													
16...	1215	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
16...	1230	ENVIRONMENTAL	1280	656	9.7	112	8.0	124	20.0	15.0	45	55	--
29...	1015	**FIELD BLANK**	--	--	--	--	--	--	--	--	--	--	--
29...	1130	ENVIRONMENTAL	1110	656	9.4	113	8.1	144	--	17.0	--	--	--
JUN													
11...	1225	ENVIRONMENTAL	794	657	10.6	124	8.5	152	--	15.8	49	60	1
27...	1110	ENVIRONMENTAL	336	653	10.0	133	8.2	230	26.5	21.5	--	--	--
JUL													
10...	1015	ENVIRONMENTAL	394	663	7.8	105	8.0	209	28.5	23.0	65	--	--
10...	1055	**SEQUENTIAL REPLICATE**	--	*663*	*8.4*	*114*	*8.0*	*208*	*34.0*	*23.1*	*66*	--	--
16...	1120	ENVIRONMENTAL	382	654	8.2	113	7.7	202	28.0	23.5	68	83	--
16...	1145	**SEQUENTIAL REPLICATE**	--	*654*	*8.3*	*114*	*7.8*	*196*	*28.0*	*23.5*	*68*	*83*	--
30...	1100	ENVIRONMENTAL	400	655	8.4	115	8.0	228	30.0	23.1	--	--	--
AUG													
14...	1420	ENVIRONMENTAL	190	653	10.5	151	8.3	314	37.0	25.7	--	--	--
29...	1015	ENVIRONMENTAL	209	652	8.0	105	8.0	295	25.0	21.0	83	101	--
29...	1200	**PESTICIDE SPIKE**	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	1100	ENVIRONMENTAL	345	654	9.2	113	7.5	238	--	18.0	68	83	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	ORTHOPHOSPHATE, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
OCT													
16...	20.2	26.3	<.04	.29	<.05	<.008	.10	E.01	.045	.9	<.1	--	.9
25...	--	--	<.04	.23	<.05	<.008	--	.02	.043	--	--	--	--
NOV													
28...	20.8	22.6	<.04	.31	.10	<.008	.05	.04	.073	.9	<.1	--	.9
DEC													
19...	23.2	25.6	E.02	.34	.13	E.005	.17	.03	.065	.9	<.1	--	.9
JAN													
23...	25.4	25.1	<.04	.32	.11	<.008	.18	.04	.049	.7	<.1	4.1	.7
FEB													
20...	23.7	23.8	<.04	.45	<.05	<.008	.13	E.02	.070	1.5	.1	--	1.4
MAR													
19...	24.7	22.4	<.04	.34	E.03	<.008	.16	.02	.055	1.0	<.1	--	1.0
APR													
18...	8.87	8.1	<.04	.26	E.05	<.008	.02	E.01	.049	1.2	<.1	--	1.1
29...	--	--	<.04	.30	E.03	E.005	--	E.01	.060	--	--	--	--
MAY													
16...	--	--	--	--	--	--	*<.02*	--	--	*.2*	*<.1*	--	*.2*
16...	7.33	8.4	<.04	.28	<.05	<.008	.11	E.01	.048	1.2	.3	4.1	.9
29...	*<.30*	*<.1*	*<.04*	*<.10*	*<.05*	*<.008*	--	*<.02*	*<.004*	--	--	--	--
29...	--	--	<.04	.26	<.05	<.008	--	.02	.055	--	--	--	--
JUN													
11...	9.01	9.9	<.04	.28	<.05	<.008	<.02	.02	.049	.5	<.1	--	.5
27...	--	--	<.04	.33	<.05	.017	--	.05	.084	--	--	--	--
JUL													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	14.1	15.9	<.04	.31	<.05	<.008	.06	.05	.089	.2	<.1	4.8	.2
16...	*13.6*	*15.8*	*<.04*	*.32*	*<.05*	*<.008*	*.03*	*.05*	*.089*	*.2*	*<.1*	*3.7*	*.2*
30...	--	--	E.02	.37	<.05	<.008	--	.04	.063	--	--	--	--
AUG													
14...	24.4	28.9	<.04	.43	<.05	<.008	--	.09	.138	--	--	--	--
29...	21.1	26.7	<.04	.39	<.05	<.008	.12	.04	.088	.7	<.1	--	.6
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	17.1	17.5	<.04	.31	<.05	<.008	.07	.03	.061	.5	<.1	--	.5

Date	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)
OCT													
16...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
25...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
NOV													
28...	<.002	<.004	<.002	<.005	E.004	<.010	<.002	E.033	<.020	<.005	<.018	<.003	<.006
DEC													
19...	<.002	<.004	<.002	<.005	<.007	<.010	<.002	E.005	<.020	<.005	<.018	<.003	<.006
JAN													
23...	<.006	<.006	<.004	<.005	.007	<.010	<.002	<.041	<.020	.032	<.018	<.003	E.004
FEB													
20...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
MAR													
19...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
APR													
18...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
29...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
MAY													
16...	*<.006*	*<.006*	*<.004*	*<.005*	*<.007*	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*
16...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	E.002	<.020	<.005	<.018	<.003	<.006
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	E.006	E.025	<.005	<.018	<.003	E.005
JUN													
11...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
27...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	E.009	<.020	<.005	<.018	<.003	<.006
JUL													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
16...	*<.006*	*<.006*	*<.004*	*<.005*	*<.007*	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*
30...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	E.009	<.020	<.005	<.018	<.003	E.004
AUG													
14...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006
29...	<.006	<.006	<.004	<.005	E.004	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003
29...	*.094*	*.130*	*.137*	*.101*	*.139*	*.105*	*.092*	*E.161*	*E.145*	*.112*	*.151*	*.130*	*E.046*
SEP													
25...	<.006	<.006	<.004	<.005	<.007	<.010	<.002	E.005	<.020	<.005	<.018	<.003	<.006

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)
OCT													
16...	119	<.005	<.005	<.02	<.002	<.009	<.005	<.003	84.2	<.004	<.035	<.027	<.050
25...	111	<.005	<.005	<.02	<.002	<.009	<.005	<.003	85.6	<.004	<.035	<.027	<.050
NOV													
28...	101	<.005	<.005	<.02	<.002	<.009	<.005	<.003	93.9	<.004	<.035	<.027	<.050
DEC													
19...	89.9	<.005	<.005	<.02	<.002	<.009	<.005	<.003	70.7	<.004	<.035	<.027	<.050
JAN													
23...	106	<.005	<.005	<.02	<.002	<.009	<.005	<.003	95.4	<.004	<.035	<.027	<.050
FEB													
20...	105	<.005	<.005	<.02	<.002	<.009	<.005	<.003	91.8	<.004	<.035	<.027	<.050
MAR													
19...	115	<.005	<.005	<.02	<.002	<.009	<.005	<.003	95.6	<.004	<.035	<.027	<.050
APR													
18...	111	<.005	<.005	<.02	<.002	<.009	<.005	<.003	88.8	<.004	<.035	<.027	<.050
29...	165	<.005	<.005	<.02	<.002	<.009	<.005	<.003	120	<.004	<.035	<.027	<.050
MAY													
16...	*96.4*	*<.005*	*<.005*	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*104*	*<.004*	*<.035*	*<.027*	*<.050*
16...	91.2	<.005	<.005	<.02	<.002	<.009	<.005	<.003	94.7	<.004	<.035	<.027	<.050
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	130	<.005	<.005	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027	<.050
JUN													
11...	103	<.005	<.005	<.02	<.002	<.009	<.005	<.003	96.4	<.004	<.035	<.027	<.050
27...	114	<.005	<.005	<.02	<.002	<.009	<.005	<.003	105	<.004	<.035	<.027	<.050
JUL													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	87.0	<.005	<.005	<.02	<.002	<.009	<.005	<.003	73.1	<.004	<.035	<.027	<.050
16...	*90.5*	*<.005*	*<.005*	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*77.2*	*<.004*	*<.035*	*<.027*	*<.050*
30...	112	E.003	<.005	<.02	<.002	<.009	<.005	<.003	106	<.004	<.035	<.027	<.050
AUG													
14...	117	<.005	<.005	<.02	<.002	<.009	<.005	<.003	107	<.004	<.035	<.027	<.050
29...	99.1	<.005	<.005	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027	<.050
29...	*97.4*	*.101*	*.124*	*<.02*	*.093*	*.093*	*.094*	*.003*	*101*	*.133*	*E.238*	*.112*	*E.230*
SEP													
25...	107	<.005	<.005	<.02	<.002	<.009	<.005	<.003	108	<.004	<.035	<.027	<.050

Date	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT													
16...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004
25...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004
NOV													
28...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	M	<.004
DEC													
19...	<.006	<.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011	<.01	<.004
JAN													
23...	<.006	E.008	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
FEB													
20...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
MAR													
19...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004
APR													
18...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
29...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
MAY													
16...	*<.006*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*	*<.004*
16...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.006	<.013	.010	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
JUN													
11...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	M	<.004
27...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004
JUL													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
16...	*<.006*	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*	*<.004*
30...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01	<.004
AUG													
14...	<.081	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
29...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004
29...	*.152*	*.108*	*.101*	*.110*	*.132*	*.066*	*.149*	*.105*	*.151*	*.045*	*<.011*	*.15*	*.116*
SEP													
25...	<.006	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01	<.004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT													
16...	<.010	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	84	3
25...	<.010	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	71	2
NOV													
28...	<.010	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	83	6
DEC													
19...	<.010	<.011	<.02	<.011	<.02	<.034	<.02	--	<.005	<.002	<.009	88	8
JAN													
23...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	90	7
FEB													
20...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	U	<.005	<.002	<.009	58	17
MAR													
19...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	74	12
APR													
18...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	69	18
29...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	66	27
MAY													
16...	*<.010*	*<.011*	*<.02*	*<.005*	*<.02*	*<.034*	*<.02*	--	*<.005*	*<.002*	*<.009*	*50*	*<1*
16...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	98	11
29...	--	--	--	--	--	--	--	--	--	--	--	--	--
29...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	98	8
JUN													
11...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	97	6
27...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	47	12
JUL													
10...	--	--	--	--	--	--	--	--	--	--	--	91	7
10...	--	--	--	--	--	--	--	--	--	--	--	*94*	*6*
16...	<.010	<.011	<.02	<.005	<.02	--	<.02	--	<.005	<.002	<.009	92	13
16...	*<.010*	*<.011*	*<.02*	*<.005*	*<.02*	--	*<.02*	--	*<.005*	*<.002*	*<.009*	*92*	*8*
30...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	86	5
AUG													
14...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	46	11
29...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	77	10
29...	*.144*	*.157*	*.12*	*.094*	*.17*	*E.131*	*<.02*	--	*.107*	*.123*	*.146*	--	--
SEP													
25...	<.010	<.011	<.02	<.005	<.02	<.034	<.02	--	<.005	<.002	<.009	82	4

Date	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	Date	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT		MAY	
16...	2.8	29...	--
25...	1.9	29...	23.9
NOV		JUN	
28...	6.1	11...	12.9
DEC		27...	10.9
19...	8.6	JUL	
JAN		10...	7.4
23...	6.5	10...	--
FEB		16...	13.4
20...	17.2	16...	--
MAR		30...	5.4
19...	11.5	AUG	
APR		14...	5.6
18...	66.6	29...	5.6
29	112	29...	--
MAY		SEP	
16...	--	25...	3.7
16...	38.0		

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified
U -- Analyzed for, not detected

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	250	242	246	260	241	251	270	263	266	281	267	273
2	253	239	248	247	237	241	265	234	256	278	270	274
3	245	237	240	245	239	242	293	222	264	292	275	286
4	246	240	243	252	240	245	362	290	334	295	285	289
5	246	238	242	255	250	251	334	324	328	302	295	299
6	249	243	245	260	253	256	325	303	315	303	296	299
7	250	243	246	262	257	259	303	287	293	303	265	289
8	248	244	245	263	255	260	287	280	282	266	250	256
9	254	234	244	256	243	249	300	280	285	272	251	261
10	243	231	238	255	243	250	322	298	305	293	271	284
11	248	229	237	256	246	251	347	322	334	301	290	295
12	251	242	247	248	238	243	347	306	322	301	293	297
13	289	247	261	246	241	245	307	278	289	305	296	298
14	304	289	295	245	240	243	290	269	275	306	302	304
15	305	298	302	255	245	249	307	287	295	303	298	299
16	303	260	281	257	250	254	288	280	284	302	296	299
17	260	248	254	254	245	249	282	271	276	302	294	299
18	254	248	251	247	241	244	280	271	276	307	286	293
19	254	244	250	244	238	241	288	276	282	307	291	297
20	258	252	255	248	243	246	288	276	281	311	288	297
21	257	253	255	247	241	244	279	272	274	311	298	303
22	263	255	258	246	239	244	307	270	292	303	296	300
23	264	250	257	239	211	219	320	305	313	301	290	294
24	251	242	247	251	216	231	332	310	321	300	294	296
25	245	236	241	281	236	264	322	316	319	304	291	297
26	245	242	244	265	259	261	322	311	315	300	286	293
27	253	244	249	265	258	261	312	274	287	299	293	296
28	262	253	257	265	260	262	274	265	268	302	293	297
29	274	259	265	265	262	263	288	262	278	304	294	298
30	273	254	262	270	259	262	284	272	277	358	301	325
31	268	253	259	---	---	---	284	277	281	356	326	339
MONTH	305	229	254	281	211	249	362	222	292	358	250	294

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	332	307	319	249	244	246	204	193	200	151	140	145
2	315	295	301	249	245	248	196	179	190	155	151	154
3	308	295	300	255	245	251	182	169	176	163	155	158
4	308	291	299	261	251	257	176	163	170	159	147	154
5	303	290	297	259	251	256	165	153	159	154	145	150
6	302	292	297	255	245	250	157	152	155	150	137	144
7	307	297	302	256	224	244	159	154	157	143	132	139
8	319	295	304	228	222	224	162	155	159	141	135	138
9	316	296	304	234	225	229	161	150	156	146	138	141
10	296	287	291	239	226	236	151	145	148	148	138	144
11	289	279	285	245	238	242	149	144	147	151	142	148
12	284	272	280	247	238	242	145	140	142	153	146	151
13	275	267	271	248	243	246	141	132	137	151	142	148
14	267	261	264	250	241	244	138	133	135	145	135	142
15	270	264	267	264	249	259	136	118	128	139	130	137
16	271	263	267	280	261	272	132	120	125	139	128	134
17	273	267	270	280	274	278	142	132	136	132	127	129
18	276	268	272	287	275	282	148	139	141	131	120	127
19	280	272	276	287	278	282	159	145	151	127	120	124
20	285	276	281	281	275	278	163	157	160	131	122	127
21	277	250	262	278	272	275	162	159	160	141	130	133
22	259	250	255	280	273	277	163	160	161	150	141	144
23	259	251	255	277	261	270	161	152	158	153	142	147
24	254	239	248	262	251	257	155	146	151	148	144	146
25	247	239	245	259	252	256	149	141	145	146	139	143
26	253	244	248	260	251	255	145	130	140	146	137	142
27	254	248	252	262	254	258	148	137	141	147	135	142
28	254	245	250	258	246	254	141	133	138	146	138	143
29	---	---	---	252	239	247	153	133	138	149	132	144
30	---	---	---	240	219	231	151	142	145	148	136	143
31	---	---	---	222	199	215	---	---	---	140	122	132
MONTH	332	239	277	287	199	254	204	118	152	163	120	142

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	122	116	119	282	258	265	230	221	224	364	276	322
2	121	116	119	282	261	268	263	227	240	318	262	280
3	127	121	124	289	245	267	273	254	263	264	252	257
4	131	127	129	250	232	241	268	260	263	260	254	257
5	133	127	130	237	229	234	278	265	271	262	257	259
6	136	129	133	235	223	230	282	277	280	261	243	250
7	138	132	136	230	223	228	299	280	286	243	228	237
8	139	131	136	235	226	231	318	299	307	231	224	228
9	138	132	136	231	225	227	322	315	318	235	228	232
10	149	134	141	239	231	234	325	316	321	235	227	232
11	159	149	155	247	220	227	332	318	326	237	225	231
12	174	159	166	239	224	227	332	324	330	240	230	234
13	183	173	177	239	220	227	334	311	325	240	230	233
14	183	177	180	254	224	229	331	312	324	241	229	233
15	180	176	178	248	227	230	333	321	328	231	224	226
16	185	176	181	257	222	225	331	315	324	235	229	232
17	196	183	189	258	223	227	323	314	319	236	230	234
18	198	189	195	229	208	223	320	312	317	232	225	227
19	191	187	189	226	204	215	316	308	313	257	225	232
20	208	190	199	230	205	221	317	311	314	238	230	233
21	234	208	224	254	225	230	316	309	313	237	227	232
22	244	232	238	259	231	235	316	307	312	232	224	228
23	243	236	240	236	225	229	313	300	308	234	227	231
24	247	240	244	235	225	230	313	301	308	231	224	227
25	248	238	243	241	229	234	313	304	307	239	225	232
26	252	239	245	241	231	234	321	301	311	236	227	232
27	243	228	237	232	220	224	308	301	303	230	221	227
28	246	230	240	225	218	221	311	294	303	236	230	234
29	251	240	246	240	220	222	305	294	298	236	226	232
30	261	244	252	230	217	223	329	305	316	229	219	225
31	---	---	---	226	220	223	339	317	329	---	---	---
MONTH	261	116	184	289	204	232	339	221	303	364	219	239
YEAR	364	116	239									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	16.0	17.5	12.0	10.0	11.0	6.5	5.0	6.0	7.5	6.5	7.0
2	19.0	17.0	18.0	11.5	10.0	10.5	6.0	5.0	5.5	6.5	6.0	6.5
3	19.0	17.0	18.0	11.0	9.5	10.5	5.0	3.5	4.0	7.5	6.5	7.0
4	19.0	17.0	18.0	11.0	9.5	10.5	4.0	3.0	3.5	6.5	5.0	5.5
5	18.5	16.5	17.5	12.0	10.0	11.0	4.0	3.0	3.5	5.0	4.5	5.0
6	18.0	16.0	17.0	12.0	10.5	11.0	5.5	3.5	4.5	5.5	4.5	5.0
7	17.5	15.5	16.5	11.0	10.0	10.5	6.0	4.5	5.0	6.5	5.0	6.0
8	17.0	15.0	16.0	10.0	9.0	9.5	5.5	4.5	5.0	6.5	5.5	6.0
9	15.5	14.0	15.0	9.5	8.0	9.0	4.5	3.5	4.0	6.0	5.0	5.5
10	14.5	13.0	13.5	9.0	7.5	8.5	4.5	4.0	4.0	6.5	5.5	6.0
11	14.0	12.5	13.5	10.5	8.5	9.5	5.0	3.5	4.0	6.5	5.0	6.0
12	14.0	12.0	13.0	10.5	9.0	9.5	5.5	4.0	4.5	6.5	5.0	6.0
13	14.5	12.0	13.5	10.0	8.5	9.5	5.5	4.5	5.0	6.0	4.5	5.5
14	15.0	13.0	14.0	10.0	8.5	9.5	5.0	3.5	4.5	5.5	4.0	4.5
15	14.5	13.0	14.0	10.0	8.5	9.5	3.5	2.5	3.0	4.0	2.5	3.5
16	14.0	13.0	13.5	10.0	9.0	9.5	2.5	2.0	2.5	3.5	2.0	3.0
17	14.5	13.0	14.0	10.5	9.0	9.5	3.5	2.0	3.0	3.0	2.0	2.5
18	14.5	13.0	14.0	9.5	8.5	9.0	4.5	3.0	3.5	3.0	1.5	2.0
19	14.0	12.5	13.5	8.5	7.5	8.0	4.5	3.0	3.5	2.5	1.5	2.0
20	14.5	13.0	14.0	8.0	7.0	7.5	5.0	3.5	4.0	2.5	0.5	1.5
21	14.5	13.0	13.5	8.5	7.5	8.0	5.5	4.0	4.5	4.0	2.0	3.0
22	14.0	12.5	13.5	8.5	7.5	8.0	5.0	4.0	4.5	4.0	2.5	3.0
23	14.0	12.5	13.0	7.5	7.0	7.0	5.0	4.5	4.5	3.0	1.5	2.5
24	13.0	11.5	12.0	7.0	5.5	6.0	5.0	4.0	4.5	3.0	1.5	2.0
25	12.0	10.5	11.0	5.5	4.5	5.0	4.0	3.0	3.5	3.0	1.5	2.5
26	12.0	10.5	11.5	5.0	4.0	4.5	3.5	2.5	3.0	4.5	2.5	3.5
27	12.5	11.0	11.5	4.5	3.5	4.0	4.0	3.0	3.5	4.0	3.0	3.5
28	13.0	11.5	12.5	4.5	3.5	4.0	5.0	4.0	4.5	3.0	1.5	2.0
29	13.0	11.5	12.5	5.0	4.0	4.5	6.5	4.5	5.5	2.5	1.0	1.5
30	13.0	12.0	12.5	5.5	4.0	5.0	6.5	6.0	6.0	2.0	0.5	1.5
31	12.5	11.0	12.0	---	---	---	7.5	6.0	7.0	2.0	1.0	1.5
MONTH	19.0	10.5	14.2	12.0	3.5	8.3	7.5	2.0	4.3	7.5	0.5	4.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	1.5	2.5	7.0	5.0	6.0	13.5	10.5	12.0	9.5	7.5	9.0
2	3.5	2.0	3.0	6.5	4.5	5.5	13.5	11.0	12.0	12.5	9.0	10.5
3	4.0	2.0	3.0	7.0	4.0	5.5	13.5	11.0	12.5	14.5	11.0	12.5
4	4.0	2.0	3.5	8.0	5.0	6.5	14.0	11.5	12.5	15.0	12.5	13.5
5	4.0	2.0	3.5	9.0	6.0	7.5	12.5	11.0	12.0	15.0	12.0	13.5
6	4.5	2.5	4.0	10.0	7.5	8.5	12.0	9.5	11.0	14.5	12.0	13.5
7	5.0	3.5	4.5	9.0	6.5	8.0	12.5	10.0	11.0	14.0	12.0	13.0
8	5.5	3.5	4.5	7.0	5.0	6.0	13.0	10.5	12.0	12.5	10.0	11.5
9	5.0	3.5	4.5	6.5	5.0	5.5	12.0	10.0	11.0	13.5	10.5	12.0
10	5.5	3.0	4.5	7.5	5.5	6.5	11.5	9.0	10.5	12.5	11.0	11.5
11	6.0	4.0	5.0	9.0	6.0	7.5	12.5	10.5	11.5	13.0	9.5	11.5
12	7.0	5.0	6.0	10.0	8.0	9.0	13.0	10.5	11.5	14.5	11.5	13.0
13	6.0	5.5	6.0	8.5	6.0	7.0	13.0	10.5	12.0	16.0	13.0	14.0
14	7.0	5.0	6.0	7.5	5.0	6.5	14.0	11.5	12.5	15.5	13.0	14.0
15	7.0	5.5	6.0	6.5	5.0	6.0	12.5	8.0	10.0	16.0	13.5	14.5
16	7.5	6.0	6.5	6.0	4.5	5.0	8.0	6.5	7.0	16.0	13.5	14.5
17	8.0	6.5	7.5	5.0	4.0	4.5	7.5	6.5	7.0	16.5	14.0	15.0
18	8.0	6.0	7.0	6.5	3.5	5.0	7.0	6.0	6.5	15.5	13.5	14.5
19	7.5	7.0	7.5	9.0	5.0	7.0	9.0	6.0	7.0	15.0	12.5	13.5
20	9.5	7.0	8.5	10.0	7.0	9.0	10.0	7.0	8.5	13.0	10.5	12.0
21	10.0	8.0	9.0	11.0	8.5	10.0	12.0	8.5	10.0	11.5	9.5	10.5
22	9.5	8.0	9.0	11.5	9.5	10.5	13.5	10.0	11.5	13.5	10.0	11.5
23	9.0	7.5	8.5	12.0	10.0	10.5	14.0	11.0	12.5	14.5	11.5	13.0
24	9.0	7.0	8.0	10.5	8.5	9.5	13.0	11.0	12.0	16.0	12.5	14.0
25	8.5	6.5	7.5	10.5	8.0	9.5	13.5	11.0	12.5	17.0	14.0	15.0
26	8.5	6.0	7.5	11.5	8.5	10.0	13.0	10.5	11.5	16.5	14.0	15.5
27	8.5	6.5	7.5	12.5	9.5	11.0	12.0	9.5	10.5	16.5	14.0	15.0
28	8.5	6.5	7.5	13.0	10.0	11.5	11.0	9.0	10.0	17.0	13.5	15.0
29	---	---	---	13.5	10.5	12.5	10.5	9.5	10.0	18.5	15.5	17.0
30	---	---	---	13.5	11.0	12.5	10.0	8.5	9.0	19.0	17.0	18.0
31	---	---	---	13.5	11.0	12.0	---	---	---	18.5	17.0	17.5
MONTH	10.0	1.5	6.0	13.5	3.5	8.1	14.0	6.0	10.7	19.0	7.5	13.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.0	14.5	16.0	25.0	21.5	23.0	24.0	22.0	23.0	23.5	20.5	22.0
2	15.5	12.5	14.0	25.0	22.0	23.5	23.5	21.5	22.5	23.5	21.0	22.5
3	16.5	13.5	15.0	24.0	22.0	23.0	23.5	20.5	22.0	22.5	21.0	21.5
4	17.5	15.0	16.0	23.5	20.5	22.0	23.0	20.5	21.5	21.5	19.5	20.5
5	18.5	16.0	17.0	23.5	20.5	22.0	22.0	20.0	21.0	20.5	19.0	19.5
6	19.0	16.5	17.5	23.5	20.5	22.0	22.0	19.5	20.5	19.0	17.0	18.0
7	18.5	16.5	17.5	23.5	20.5	22.0	21.5	19.0	20.0	18.5	16.0	17.0
8	17.0	15.0	16.0	23.5	20.5	22.0	22.0	19.0	20.5	18.5	15.5	17.0
9	16.0	13.5	14.5	24.0	21.0	22.5	22.5	19.5	21.0	18.5	16.0	17.5
10	16.5	13.5	15.0	25.0	22.0	23.5	23.5	20.5	22.0	19.0	16.0	17.5
11	18.0	14.5	16.0	26.0	23.0	24.5	24.5	21.5	23.0	19.5	16.5	18.5
12	19.5	16.0	17.5	25.5	23.5	24.5	25.0	22.0	23.5	20.0	17.5	19.0
13	21.0	17.5	19.5	24.5	22.5	23.5	25.5	22.5	24.0	20.5	17.5	19.0
14	21.5	18.5	20.0	24.5	21.5	23.0	26.0	23.0	24.5	20.5	18.0	19.5
15	21.0	18.0	19.5	25.0	22.5	23.5	25.5	23.0	24.0	20.0	18.0	19.0
16	21.0	18.0	19.5	25.0	22.0	23.5	25.5	22.5	24.0	19.0	16.5	18.0
17	21.0	18.0	19.5	24.0	22.0	23.0	24.5	22.0	23.0	18.5	16.5	17.5
18	21.0	18.5	20.0	22.0	20.0	21.0	23.5	21.0	22.0	18.5	16.5	17.5
19	21.0	19.0	20.0	22.5	19.0	20.5	23.0	20.0	21.5	18.5	16.0	17.5
20	22.0	19.0	20.5	24.0	20.5	22.5	21.0	19.0	20.0	19.0	16.5	18.0
21	22.0	19.5	20.5	25.0	22.0	23.5	21.0	18.0	19.5	19.5	17.0	18.5
22	22.5	19.5	21.0	24.5	22.0	23.0	21.5	18.5	20.0	19.5	17.5	18.5
23	23.5	20.5	22.0	23.5	21.0	22.5	21.5	18.5	20.0	20.0	17.5	19.0
24	23.5	20.5	22.0	23.5	21.0	22.5	22.0	19.0	20.5	20.0	17.5	18.5
25	23.5	20.5	22.0	23.0	20.5	22.0	22.0	19.0	20.5	19.0	17.0	18.0
26	24.0	21.5	22.5	22.5	20.0	21.5	21.5	19.0	20.5	18.0	16.0	17.0
27	23.5	21.0	22.0	23.5	20.5	22.0	22.0	19.5	20.5	18.0	16.0	17.0
28	23.5	20.5	22.0	24.0	21.0	22.5	22.0	19.5	21.0	17.0	15.5	16.5
29	23.5	21.0	22.5	24.5	21.5	23.5	23.0	20.0	21.5	17.0	15.0	16.0
30	24.0	21.0	22.5	24.5	22.5	23.5	22.5	20.0	21.5	16.5	14.5	15.5
31	---	---	---	24.5	22.0	23.5	23.0	20.0	21.5	---	---	---
MONTH	24.0	12.5	19.0	26.0	19.0	22.7	26.0	18.0	21.6	23.5	14.5	18.4
YEAR	26.0	0.5	12.6									

PYRAMID AND WINNEMUCCA LAKES BASIN

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION.--Lat 39°36'46", long 119°17'46", in NW $^1/_4$ SW $^1/_4$ sec. 9, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, Pyramid Indian Reservation, on left bank, 2.2 mi southwest of Wadsworth, and at mi 22.04 upstream from terminal weir at Lahontan Reservoir.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR NV-77-1: 1975.

GAGE.--Velocity-stage recorder. Elevation of gage is 4,200 ft above NGVD of 1929, from topographic map. Prior to May 23, 1994, at site 0.9 mi upstream, at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 967 ft^3/s March 10 1995; no flow at times, some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	339	359	333	6.5	426	597	610	662	171	130	58
2	212	319	411	e207	6.5	406	665	504	720	152	106	63
3	251	312	546	e90	5.9	389	722	416	740	181	106	66
4	277	307	454	34	7.0	388	767	388	730	220	70	57
5	264	306	365	15	6.5	388	800	390	764	233	64	49
6	271	297	367	15	6.4	420	775	399	749	229	80	80
7	267	282	378	16	20	508	793	397	746	241	77	86
8	264	276	370	19	178	536	803	375	725	226	113	71
9	278	290	331	17	309	496	803	370	690	254	78	77
10	274	286	272	15	307	469	787	377	641	239	88	81
11	259	304	268	13	307	472	813	364	551	237	96	77
12	231	323	325	13	323	459	838	370	463	234	85	65
13	239	319	365	12	336	446	878	370	407	239	101	52
14	258	315	384	12	358	452	884	380	388	251	123	76
15	264	299	393	12	365	435	878	363	387	257	90	88
16	256	302	358	11	372	363	817	352	359	273	78	90
17	258	317	361	11	376	351	820	386	322	251	93	87
18	238	321	388	12	384	332	812	440	315	282	75	60
19	249	309	349	10	364	345	756	483	251	318	70	46
20	255	306	348	9.8	354	361	709	472	119	292	95	86
21	252	307	359	10	429	371	674	462	171	265	72	112
22	246	322	374	9.5	425	376	682	426	148	249	89	91
23	271	462	360	9.2	420	380	688	455	127	243	88	59
24	276	385	362	9.1	442	425	687	493	123	237	106	75
25	272	520	339	9.5	437	433	707	477	89	231	119	64
26	272	462	332	9.2	425	418	750	498	61	226	130	86
27	264	375	328	7.5	422	412	703	505	105	252	116	100
28	273	342	326	7.1	431	422	708	513	101	259	101	64
29	265	341	385	6.5	---	460	697	476	146	246	69	e2.0
30	292	349	362	8.1	---	514	660	342	167	249	101	e0.05
31	308	---	352	10	---	563	---	275	---	204	80	---
TOTAL	7993	9994	11271	972.5	7822.8	13216	22673	13128	11967	7441	2889	2068.05
MEAN	258	333	364	31.4	279	426	756	423	399	240	93.2	68.9
MAX	308	520	546	333	442	563	884	610	764	318	130	112
MIN	137	276	268	6.5	5.9	332	597	275	61	152	64	0.05
AC-FT	15850	19820	22360	1930	15520	26210	44970	26040	23740	14760	5730	4100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	217	243	221	171	178	233	280	328	262	206	190	194
MAX	522	535	660	520	633	722	870	822	822	458	339	340
(WY)	1976	1969	1967	1967	1967	1989	1989	1978	1970	1971	1967	1969
MIN	36.7	11.5	0.000	0.000	0.000	0.000	23.7	59.5	57.7	39.1	3.21	29.8
(WY)	1993	2001	1976	1971	1971	1971	1998	1998	1992	1992	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	123605		111435.35			
ANNUAL MEAN	339		305		227	
HIGHEST ANNUAL MEAN					397	1978
LOWEST ANNUAL MEAN					42.8	2000
HIGHEST DAILY MEAN	561	Mar 30	884	Apr 14	967	Mar 10 1995
LOWEST DAILY MEAN	75	Sep 28	0.05	Sep 30	0.00	Dec 14 1967
ANNUAL SEVEN-DAY MINIMUM	87	Sep 25	7.0	Jan 31	0.00	Jan 4 1968
ANNUAL RUNOFF (AC-FT)	245200		221000		164500	
10 PERCENT EXCEEDS	479		663		487	
50 PERCENT EXCEEDS	314		306		192	
90 PERCENT EXCEEDS	234		28		16	

e Estimated

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION.--Lat 39°30'14", long 119°02'39", in NE $^{1}/_{4}$ NE $^{1}/_{4}$ sec.22, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050203, on left bank, 500 ft downstream from Bango check dam, 4.0 mi southwest of Hazen, and at mi 3.35 upstream from terminal weir at Lahontan Reservoir.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1966 to current year. Records since October 1, 1980, equivalent if records for the KX lateral are added to flow past station.

GAGE.--Water-stage recorder. Datum of gage is 4,166.53 ft above NGVD of 1929, Bureau of Reclamation datum. Since October 1, 1980, at site 500 ft downstream from Bango check dam. From March 17, 1972, to September 30, 1980, gage on left bank, 0.1 mi downstream from Hazen check dam and auxiliary water-stage recorder 20 ft upstream from KX lateral diversion canal. October 1, 1967, to March 17, 1972, auxiliary water-stage recorder on right bank, approximately 6 mi downstream from base gage.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft^3/s, February 3, 1967; no flow at times, some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	300	314	e348	e6.0	393	524	602	396	61	30	5.3
2	227	290	309	e207	e6.0	386	570	498	564	21	36	4.8
3	207	265	402	e90	e5.2	374	625	399	611	9.7	25	9.2
4	229	252	402	e33	e5.8	363	675	302	571	104	11	7.4
5	243	269	361	e13	e5.3	357	763	296	639	167	5.4	4.4
6	229	274	312	e13	e5.3	364	752	302	657	156	4.9	3.6
7	182	269	316	e15	e20	406	753	324	631	127	3.9	13
8	234	252	313	e19	e178	502	761	282	624	142	e18	5.5
9	244	248	294	e18	e309	493	749	293	607	110	22	13
10	270	232	244	e16	e305	457	752	300	610	146	4.8	33
11	283	250	e259	e14	e303	437	744	252	518	120	3.9	17
12	236	303	e314	e14	e318	425	757	264	394	106	4.3	19
13	161	321	e353	e13	e329	403	800	289	335	105	3.4	7.0
14	227	314	e372	e12	e348	416	820	259	315	130	3.3	2.7
15	260	300	e381	e12	e354	415	839	285	309	145	3.3	3.2
16	256	294	e347	e12	e360	374	829	293	307	138	3.7	4.4
17	243	291	e351	e11	e363	344	849	279	234	153	3.0	26
18	234	298	e379	e12	e371	330	863	340	228	154	3.4	30
19	220	299	e342	e11	e351	326	823	410	178	265	2.7	12
20	191	284	e342	e10	e341	326	704	428	91	251	6.8	6.1
21	198	288	e354	e11	e406	330	604	442	17	188	4.1	8.0
22	212	284	e371	e10	e404	336	572	425	58	181	3.4	20
23	223	391	e359	e9.4	e399	334	556	379	15	172	2.5	29
24	242	497	e363	e9.0	e418	364	557	439	21	144	2.1	9.0
25	245	513	e342	e9.6	e416	398	562	400	20	100	2.1	9.5
26	223	473	e336	e8.7	e405	393	643	404	11	131	3.8	14
27	247	411	e333	e6.7	331	378	650	394	9.8	134	4.9	5.0
28	244	349	e333	e7.6	386	373	619	414	6.8	157	3.5	6.4
29	245	323	e398	e6.4	---	395	664	394	4.9	166	3.3	18
30	248	309	e374	e8.0	---	436	631	290	40	159	15	26
31	284	---	e366	e10	---	482	---	149	---	113	20	---
TOTAL	7060	9443	10636	989.4	7448.6	12110	21010	10827	9022.5	4255.7	263.5	371.5
MEAN	227.7	314.8	343.1	31.92	266.0	390.6	700.3	349.3	300.8	137.3	8.500	12.38
MAX	284	513	402	348	418	502	863	602	657	265	36	33
MIN	73	232	244	6.4	5.2	326	524	149	4.9	9.7	2.1	2.7
AC-FT	14000	18730	21100	1960	14770	24020	41670	21480	17900	8440	523	737

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	165.5	213.5	205.7	158.5	167.5	213.9	226.3	221.6	152.6	84.13	76.28	114.0
MAX	442	506	620	503	630	668	774	692	673	297	220	290
(WY)	1976	1974	1967	1967	1967	1989	1989	1978	1970	1971	1976	1985
MIN	1.00	2.64	0.000	0.000	0.000	0.000	0.15	0.090	0.28	0.34	0.063	0.52
(WY)	1997	2001	1976	1971	1971	1971	1996	1996	1999	1992	1992	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	109229.9		93437.2			
ANNUAL MEAN	299.3		256.0		166.5	
HIGHEST ANNUAL MEAN					330	1978
LOWEST ANNUAL MEAN					2.32	1999
HIGHEST DAILY MEAN	533	Mar 28	863	Apr 18	916	Feb 3 1967
LOWEST DAILY MEAN	7.9	Sep 30	2.1	Aug 24	0.00	Jan 7 1968
ANNUAL SEVEN-DAY MINIMUM	32	Sep 25	3.2	Aug 23	0.00	Dec 11 1970
ANNUAL RUNOFF (AC-FT)	216700		185300		120600	
10 PERCENT EXCEEDS	478		563		443	
50 PERCENT EXCEEDS	271		265		91	
90 PERCENT EXCEEDS	149		5.9		0.68	

e Estimated

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV

LOCATION.--Lat 39°35'05", long 119°26'25", in NW $^1/_4$ SE $^1/_4$ sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, on right bank, 1,500 ft downstream from Derby Dam, 3.2 mi downstream from Clark, 9 mi southwest of Wadsworth, and at mi 34.49 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,676 mi^2.

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Records prior to January 1918 not equivalent, due to site location above Derby Dam.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, several powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir into the Carson River basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s, January 3, 1997, gage height, 14.57 ft; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 851 ft^3/s, April 15, gage height, 4.17 ft; minimum daily, 29 ft^3/s, August 9-11, 15-16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	38	30	126	323	45	77	486	665	85	89	43
2	113	38	113	234	326	42	93	492	619	91	88	44
3	86	38	198	346	318	41	101	522	550	92	90	50
4	74	38	35	351	316	41	157	567	415	94	85	54
5	78	38	31	316	295	40	265	624	389	106	82	53
6	79	37	35	308	301	43	268	640	345	113	82	56
7	79	37	38	393	264	114	205	671	268	111	56	59
8	78	37	39	415	158	87	183	643	235	122	30	59
9	81	38	38	368	67	51	277	577	220	124	29	61
10	81	39	37	325	54	49	307	566	211	122	29	62
11	79	39	37	299	53	48	332	573	193	119	29	61
12	78	40	38	302	48	42	370	513	178	115	30	61
13	72	40	40	289	43	40	409	523	168	113	31	82
14	69	38	40	296	43	41	434	546	164	98	31	96
15	67	38	41	295	43	40	653	535	164	99	29	96
16	60	38	40	285	43	38	476	540	159	100	29	90
17	58	38	40	302	42	38	297	516	155	100	30	100
18	59	38	41	306	42	37	269	490	160	104	30	125
19	60	38	43	303	41	37	319	510	170	106	30	149
20	60	38	44	281	40	37	290	449	138	103	36	158
21	59	38	43	310	63	36	310	413	78	101	40	165
22	58	33	42	306	51	36	298	363	80	99	39	165
23	58	36	42	300	56	37	330	374	79	99	40	184
24	59	36	42	291	73	38	380	378	78	97	40	205
25	61	85	42	317	55	38	414	367	78	96	38	214
26	61	37	46	320	48	38	509	375	76	96	40	223
27	50	33	45	322	46	38	519	380	78	99	39	242
28	38	33	47	309	45	38	473	407	77	99	40	306
29	38	32	50	286	---	40	607	439	76	94	39	344
30	38	31	46	293	---	43	597	501	74	91	43	354
31	38	---	45	291	---	65	---	619	---	90	44	---
TOTAL	2082	1157	1488	9485	3297	1398	10219	15599	6340	3178	1407	3961
MEAN	67.16	38.57	48.00	306.0	117.8	45.10	340.6	503.2	211.3	102.5	45.39	132.0
MAX	113	85	198	415	326	114	653	671	665	124	90	354
MIN	38	31	30	126	40	36	77	363	74	85	29	43
AC-FT	4130	2290	2950	18810	6540	2770	20270	30940	12580	6300	2790	7860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2002, BY WATER YEAR (WY)

MEAN	87.68	165.4	340.1	436.5	549.9	581.5	751.5	1037	677.7	180.8	81.08	88.42
MAX	776	2629	3722	6672	3846	4054	3395	4587	5099	2478	716	1071
(WY)	1983	1984	1984	1997	1997	1986	1952	1952	1983	1983	1975	1983
MIN	0.90	0.13	0.22	0.24	1.22	0.57	6.93	16.6	11.4	6.87	5.39	4.37
(WY)	1995	1956	1962	1962	1961	1962	1931	1931	1960	1931	1931	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1918 - 2002	
ANNUAL TOTAL	30273		59611			
ANNUAL MEAN	82.94		163.3		412.8	
HIGHEST ANNUAL MEAN					2430	1983
LOWEST ANNUAL MEAN					6.16	1931
HIGHEST DAILY MEAN	198	Dec 3	671	May 7	16400	Jan 3 1997
LOWEST DAILY MEAN	26	Apr 23	29	Aug 9	0.00	Jun 26 1918
ANNUAL SEVEN-DAY MINIMUM	26	Apr 21	30	Aug 9	0.00	Nov 3 1955
MAXIMUM PEAK FLOW			851	Apr 15	19700	Jan 3 1997
MAXIMUM PEAK STAGE			4.17	Apr 15	14.57	Jan 3 1997
INSTANTANEOUS LOW FLOW			27	Nov 24		
ANNUAL RUNOFF (AC-FT)	60050		118200		299100	
10 PERCENT EXCEEDS	138		414		1290	
50 PERCENT EXCEEDS	71		81		35	
90 PERCENT EXCEEDS	37		38		4.0	

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to 1996; 2001 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1988 to September 1996; October 2001 to September 2002.

INSTRUMENTATION.--Water temperature monitor June 1988 to September 1996, hourly; October 2001 to September 2002, four times per hour.

REMARKS.--Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum daily, 30.0°C, July 15, 1992; minimum, freezing point on several days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 27.5°C, August 14; minimum recorded, 1.5°C, several days in December.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.5	16.0	17.5	12.5	9.5	10.5	6.0	4.5	5.0	7.0	6.5	6.5
2	20.0	17.0	18.0	11.5	9.0	10.0	6.0	4.0	5.0	6.5	6.0	6.0
3	---	---	---	11.5	8.5	10.0	5.0	3.5	4.5	7.5	6.0	6.5
4	---	---	---	11.5	8.5	10.0	4.0	2.0	3.0	6.5	5.0	5.5
5	20.0	15.5	17.0	12.0	9.0	10.5	4.5	2.5	3.5	5.0	4.5	5.0
6	19.0	15.0	16.5	12.0	9.5	10.5	5.5	3.5	4.5	5.5	4.5	5.0
7	19.0	14.5	16.5	11.0	9.0	10.0	5.0	3.5	4.5	6.5	5.0	5.5
8	18.5	14.0	15.5	10.0	8.0	8.5	5.0	3.5	4.0	6.5	5.0	5.5
9	16.0	13.0	14.0	9.5	7.0	8.0	4.5	3.0	3.5	6.0	5.0	5.5
10	15.0	11.5	13.0	9.0	6.5	8.0	4.5	3.0	3.5	6.5	5.0	5.5
11	14.5	11.5	13.0	10.0	8.0	9.0	4.0	2.5	3.0	6.5	5.0	5.5
12	15.5	10.0	12.0	10.0	8.0	9.0	4.5	3.0	4.0	6.5	5.0	5.5
13	---	---	---	10.0	8.0	9.0	5.5	3.5	4.5	6.0	4.5	5.0
14	---	---	---	10.5	8.0	9.0	5.0	2.5	4.0	5.0	3.5	4.5
15	---	---	---	10.0	8.0	9.0	3.0	1.5	2.0	---	---	---
16	---	---	---	10.5	8.5	9.0	3.0	1.5	2.0	---	---	---
17	---	---	---	10.0	8.0	8.5	3.5	1.5	2.5	---	---	---
18	---	---	---	9.5	7.5	8.0	3.5	2.0	2.5	---	---	---
19	---	---	---	8.5	6.5	7.5	3.5	2.5	3.0	---	---	---
20	---	---	---	8.0	6.5	7.0	4.0	3.0	3.5	---	---	---
21	---	---	---	8.5	7.0	7.5	4.5	3.5	4.0	---	---	---
22	---	---	---	8.0	6.0	7.5	5.0	3.5	4.0	---	---	---
23	---	---	---	7.5	5.5	6.5	5.0	3.5	4.5	---	---	---
24	---	---	---	7.0	3.5	5.0	5.0	3.5	4.0	---	---	---
25	12.0	10.0	11.0	5.0	3.5	4.5	3.5	3.0	3.0	---	---	---
26	12.0	10.0	11.0	4.5	3.0	3.5	3.5	2.5	3.0	---	---	---
27	12.5	10.5	11.0	4.0	2.5	3.0	4.0	2.5	3.0	---	---	---
28	13.5	11.0	12.0	4.5	2.5	3.5	4.0	3.0	3.5	---	---	---
29	14.0	10.5	12.0	5.5	3.5	4.0	5.5	4.0	5.0	---	---	---
30	13.0	10.5	12.0	5.0	3.0	4.0	6.5	5.5	6.0	---	---	---
31	13.0	10.0	11.0	---	---	---	7.0	6.0	6.5	---	---	---
MONTH	---	---	---	12.5	2.5	7.7	7.0	1.5	3.8	---	---	---

10351600 TRUCKEE RIVER BELOW DERBY DAM, NEAR WADSWORTH, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	8.0	4.5	6.0	14.5	10.5	12.5	9.5	7.5	8.5
2	---	---	---	7.5	4.0	5.5	14.0	11.0	12.5	12.5	9.0	10.5
3	---	---	---	7.5	3.5	5.5	14.5	11.0	12.5	14.0	11.0	12.5
4	---	---	---	8.5	4.5	6.5	14.0	11.5	13.0	15.5	12.0	13.5
5	---	---	---	10.0	5.5	7.5	13.0	11.0	12.0	15.0	12.5	13.5
6	---	---	---	10.0	7.5	8.5	12.0	10.0	11.0	15.0	12.5	13.5
7	---	---	---	9.5	7.0	8.0	12.5	10.0	11.5	14.5	12.0	13.0
8	---	---	---	8.0	5.0	6.5	13.5	11.0	12.0	12.5	10.5	11.5
9	---	---	---	7.5	4.5	6.0	12.5	10.0	11.5	13.5	10.5	12.0
10	---	---	---	7.5	5.0	6.0	11.5	9.5	10.5	12.5	11.0	11.5
11	---	---	---	9.5	6.0	7.5	12.5	10.5	11.5	13.0	9.5	11.5
12	---	---	---	10.0	7.5	8.5	13.0	10.5	11.5	14.5	11.5	13.0
13	6.0	5.0	5.5	9.0	6.0	7.5	13.0	11.0	12.0	16.0	12.5	14.0
14	8.0	5.0	6.0	8.5	5.0	6.5	14.0	11.5	12.5	16.0	13.0	14.5
15	7.5	5.0	6.0	8.5	5.0	6.5	12.5	8.0	10.0	16.0	13.5	14.5
16	8.0	5.5	6.5	6.5	3.5	5.0	8.0	6.5	7.0	16.0	13.5	14.5
17	8.0	6.0	7.0	5.5	3.5	4.0	8.0	6.5	7.0	17.0	14.0	15.5
18	9.0	6.0	7.0	8.0	3.0	5.0	7.0	6.0	6.5	15.5	13.5	15.0
19	8.0	6.5	7.0	10.0	4.5	7.0	8.0	5.5	6.5	15.0	12.0	13.5
20	10.5	6.5	8.0	11.0	6.5	8.5	10.0	7.0	8.5	12.5	11.0	12.0
21	10.0	8.0	9.0	12.0	8.0	10.0	12.0	8.5	10.0	12.0	9.5	10.5
22	10.0	8.0	9.0	12.5	9.0	10.5	13.5	10.0	11.5	13.5	10.0	11.5
23	9.5	7.0	8.5	12.0	9.0	10.5	14.0	11.0	12.5	14.5	11.5	13.0
24	9.5	6.5	8.0	11.5	8.5	10.0	13.0	11.0	12.0	16.0	12.5	14.0
25	9.0	6.5	7.5	11.5	8.0	9.5	14.0	11.0	12.5	17.0	14.0	15.5
26	9.0	6.0	7.5	12.5	8.5	10.5	13.0	10.5	12.0	17.0	14.5	15.5
27	9.5	6.0	7.5	13.5	8.5	11.0	12.0	10.0	10.5	16.5	14.0	15.5
28	9.5	5.5	7.0	14.5	9.5	12.0	11.0	9.5	10.0	17.0	13.5	15.5
29	---	---	---	14.5	10.5	12.5	10.5	9.5	10.0	19.0	15.5	17.0
30	---	---	---	15.0	10.5	12.5	10.5	8.0	9.5	19.5	17.0	18.0
31	---	---	---	14.5	10.5	12.5	---	---	---	19.0	17.0	18.0
MONTH	---	---	---	15.0	3.0	8.2	14.5	5.5	10.8	19.5	7.5	13.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	14.5	16.5	26.0	21.0	23.5	25.0	21.5	23.0	24.5	20.0	22.0
2	15.5	13.0	14.0	26.5	21.5	23.5	24.5	21.5	22.5	25.0	20.5	22.5
3	17.0	13.5	15.0	25.5	21.0	23.0	24.0	20.5	22.0	23.0	20.0	21.5
4	18.0	15.0	16.5	24.5	20.5	22.0	23.5	20.0	21.5	20.5	19.5	20.0
5	19.0	16.0	17.5	24.5	20.5	22.5	22.5	20.0	21.0	21.0	18.5	19.5
6	19.5	16.5	18.0	24.5	20.5	22.0	23.5	18.5	20.5	19.0	16.5	18.0
7	19.0	16.5	17.5	24.0	20.5	22.0	23.0	18.0	20.5	19.5	15.0	17.0
8	17.5	15.0	16.5	24.5	20.5	22.0	23.5	18.0	20.5	19.5	15.5	17.5
9	16.0	14.0	15.0	25.0	21.5	23.0	24.0	18.5	21.0	19.5	15.5	17.5
10	17.0	13.5	15.0	26.0	21.5	24.0	25.0	19.0	22.0	20.0	16.0	17.5
11	18.0	14.5	16.0	27.0	23.0	24.5	26.0	20.0	23.0	20.5	16.5	18.5
12	20.0	15.5	17.5	26.5	23.5	24.5	26.5	21.0	23.5	21.0	17.0	19.0
13	21.5	17.5	19.5	25.5	22.5	23.5	26.5	21.5	24.0	21.0	17.5	19.0
14	22.5	18.0	20.0	25.5	21.5	23.5	27.5	21.5	24.5	21.5	18.0	19.5
15	22.0	18.0	20.0	25.5	22.5	24.0	27.0	21.5	24.0	20.0	18.0	19.0
16	21.5	17.5	19.5	26.5	22.5	24.0	26.5	21.0	23.5	19.5	16.5	18.0
17	22.0	18.0	19.5	24.5	22.0	23.0	25.0	20.0	22.5	19.0	16.0	17.5
18	22.0	18.5	20.0	22.5	20.0	21.5	25.5	19.5	22.0	19.0	16.0	17.5
19	22.0	18.5	20.0	23.0	19.0	21.0	24.0	18.5	21.0	19.0	16.0	17.5
20	23.0	19.0	20.5	24.5	20.5	22.5	22.0	17.5	19.5	20.0	16.0	18.0
21	24.0	18.5	21.0	25.5	22.5	23.5	22.0	17.0	19.5	20.0	17.0	18.0
22	24.0	19.0	21.5	25.5	21.5	23.0	23.0	17.5	20.0	20.5	17.0	18.5
23	24.5	20.0	22.0	25.0	20.5	22.5	22.5	17.0	20.0	20.5	17.0	18.5
24	25.0	20.0	22.5	24.0	21.0	22.5	23.5	18.0	20.5	20.5	17.5	18.5
25	25.0	20.5	22.5	24.0	20.0	22.0	23.0	17.5	20.5	19.5	16.5	18.0
26	25.5	21.0	23.0	24.0	19.5	21.5	22.5	18.0	20.0	18.5	15.5	17.0
27	24.5	20.0	22.0	24.5	21.0	22.5	23.0	18.5	20.5	18.5	16.0	17.0
28	25.0	20.0	22.0	25.0	21.0	22.5	23.5	18.5	21.0	18.0	15.0	16.5
29	25.0	20.0	22.5	26.0	21.5	23.5	24.0	19.0	21.5	17.5	14.5	15.5
30	25.5	20.5	23.0	25.5	22.5	23.5	23.5	19.0	21.5	17.0	14.5	15.5
31	---	---	---	26.0	22.0	23.5	24.0	19.5	21.5	---	---	---
MONTH	25.5	13.0	19.2	27.0	19.0	22.9	27.5	17.0	21.6	25.0	14.5	18.3

PYRAMID AND WINNEMUCCA LAKES BASIN

10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°37'56", long 119°16'56", in SW $^1/_4$ NW $^1/_4$ sec.3, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, in Pyramid Lake Indian Reservation, on left bank, 10 ft upstream from bridge on Nevada Highway 427, 0.2 mi southeast of Wadsworth and at mi 23.69 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,728 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to September 1986, September 1993 to current year.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,070 ft above NGVD of 1929, from topographic map. Prior to September 1986 at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Martis Creek Lake (station 10339380), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, Donner (station 10338400) and Independence (station 10342900) Lakes, several powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir into the Carson River Basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,100 ft^3/s, January 3, 1997, gage height, 19.64 ft; minimum daily, 0.46 ft^3/s, October 11, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft^3/s, April 15, gage height 6.98 ft; minimum daily, 37 ft^3/s, December 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	56	37	76	336	51	87	505	723	66	200	182
2	147	55	38	215	369	49	83	488	649	79	213	183
3	124	55	307	341	353	48	100	522	567	88	229	183
4	89	53	64	400	348	47	144	556	458	107	212	189
5	96	52	42	369	328	47	229	615	402	113	192	183
6	96	51	40	353	329	47	281	636	371	129	153	195
7	97	48	45	430	300	84	221	651	299	124	128	202
8	96	49	46	527	178	107	193	630	264	139	79	216
9	97	49	45	435	69	59	268	563	250	141	109	204
10	99	49	43	388	51	53	342	558	234	135	103	228
11	101	49	41	331	50	52	330	586	217	128	94	229
12	98	50	42	336	50	50	399	515	200	124	107	240
13	100	49	44	318	47	47	423	519	189	121	104	252
14	90	48	44	315	48	48	440	544	180	85	81	242
15	89	47	45	329	48	47	636	535	149	92	75	241
16	86	46	45	312	48	45	528	540	149	111	77	234
17	77	46	44	320	48	44	339	530	144	105	62	202
18	79	45	45	342	48	43	265	498	164	106	80	249
19	81	45	45	341	47	43	332	518	225	110	106	257
20	81	44	44	313	47	41	293	472	261	109	79	222
21	81	44	45	330	55	41	322	443	138	107	90	213
22	81	41	45	334	66	41	302	370	154	105	85	237
23	80	42	47	326	56	41	334	371	175	108	99	273
24	81	43	46	319	73	43	378	379	179	106	94	266
25	81	74	46	334	67	44	426	373	219	105	77	255
26	81	66	46	352	57	44	474	376	208	108	67	238
27	80	44	46	353	53	43	551	370	198	113	62	221
28	63	41	46	338	52	43	466	378	189	102	75	293
29	56	38	47	319	---	44	582	420	119	83	89	356
30	56	38	49	309	---	47	622	568	77	78	106	358
31	55	---	48	296	---	53	---	778	---	123	151	---
TOTAL	2827	1457	1657	10401	3621	1536	10390	15807	7751	3350	3478	7043
MEAN	91.19	48.57	53.45	335.5	129.3	49.55	346.3	509.9	258.4	108.1	112.2	234.8
MAX	209	74	307	527	369	107	636	778	723	141	229	358
MIN	55	38	37	76	47	41	83	370	77	66	62	182
AC-FT	5610	2890	3290	20630	7180	3050	20610	31350	15370	6640	6900	13970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY)

MEAN	230.2	385.1	598.0	924.1	999.5	1139	1129	1601	1211	458.5	213.2	234.1
MAX	905	2786	3965	7378	3837	4979	3595	4164	5882	2776	857	1218
(WY)	1983	1984	1984	1997	1997	1986	1969	1982	1983	1983	1983	1983
MIN	1.72	17.6	9.57	9.01	9.42	26.3	34.5	45.7	26.9	22.3	16.8	6.80
(WY)	1995	1994	1995	1994	1994	1979	1979	1977	1966	1966	1994	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1965 - 2002	
ANNUAL TOTAL	34253		69318			
ANNUAL MEAN	93.84		189.9		763.4	
HIGHEST ANNUAL MEAN					2677	1983
LOWEST ANNUAL MEAN					55.3	1977
HIGHEST DAILY MEAN	307	Dec 3	778	May 31	17500	Jan 3 1997
LOWEST DAILY MEAN	25	Apr 28	37	Dec 1	0.46	Oct 11 1994
ANNUAL SEVEN-DAY MINIMUM	29	Apr 27	42	Mar 18	0.62	Oct 10 1994
MAXIMUM PEAK FLOW			1470	Apr 15	19100	Jan 3 1997
MAXIMUM PEAK STAGE			6.98	Apr 15	19.64	Jan 3 1997
INSTANTANEOUS LOW FLOW			35	Dec 1		
ANNUAL RUNOFF (AC-FT)	67940		137500		553000	
10 PERCENT EXCEEDS	139		437		2290	
50 PERCENT EXCEEDS	95		108		333	
90 PERCENT EXCEEDS	40		45		27	

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV

LOCATION.--Lat 39°46'40", long 119°20'10", in SW $^1/_4$ NW $^1/_4$ sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, on right bank, 1.0 mi upstream from Numana Dam, 4 mi south of Nixon, and at mi 9.42 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,827 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to current year. Records kept by Federal Court Watermaster April to June 1926, May 1928 to September 1957 at site 1.0 mi downstream (Truckee River below Pyramid Dam, near Nixon, Nev.) not equivalent, but would be equivalent by adding flow of Indian Canal, both of which are available in files of Federal Court Watermaster. Currently, these records are kept only at times of diversion to the canal. At other times, the records are equivalent.

REVISED RECORDS.--WDR NV-83-1: 1980 (monthly runoff).

GAGE.--Water-stage recorder. Elevation of gage is 3,940 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300) and Boca (station 10344490) Reservoirs, other lakes, powerplants, and many diversions for irrigation. Truckee Canal often diverts much of the flow at Derby Dam, about 25 mi upstream, out of basin to Lahontan Reservoir (station 10312100). Several diversions for irrigation between station and Truckee Canal. One irrigation canal diverts between station and mouth of river. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft^3/s, January 3, 1997, gage height, 15.28 ft; minimum daily, 3.3 ft^3/s, July 9, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft^3/s, June 1, gage height, 5.13 ft; minimum daily, 49 ft^3/s, December 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	60	49	58	339	66	96	536	810	72	175	186
2	163	61	51	157	369	66	97	471	723	72	199	192
3	146	61	205	284	361	64	107	511	605	75	247	194
4	113	61	117	376	356	63	133	542	515	88	247	198
5	103	60	62	361	346	63	203	601	411	88	210	192
6	104	58	53	352	338	62	314	636	397	120	179	203
7	103	52	53	356	338	67	271	651	324	117	141	206
8	103	51	55	471	251	136	220	645	270	122	99	233
9	102	53	55	417	144	94	223	583	256	121	95	213
10	106	57	55	390	e104	74	389	570	240	111	117	257
11	107	57	53	351	e84	72	335	606	218	110	101	269
12	103	59	51	354	78	75	433	523	202	116	108	267
13	104	59	52	345	72	68	431	527	195	114	103	275
14	98	59	53	333	68	67	464	544	194	96	94	269
15	88	60	54	350	66	66	610	552	168	88	78	254
16	85	57	54	336	66	66	633	536	164	105	83	262
17	79	57	54	329	65	63	391	553	153	103	69	222
18	77	56	53	364	65	62	275	515	174	103	72	239
19	79	57	55	349	65	61	329	513	192	105	89	263
20	80	58	54	344	66	61	286	515	273	109	90	239
21	77	58	54	338	64	61	308	476	181	105	78	213
22	75	57	54	346	82	61	294	390	124	105	84	243
23	73	54	57	342	72	61	306	372	161	102	80	279
24	74	61	56	337	77	62	359	381	154	100	95	302
25	75	60	55	341	89	64	420	378	172	101	77	269
26	76	94	54	359	77	64	438	369	187	103	75	278
27	77	60	53	358	71	63	593	374	167	109	63	241
28	73	55	54	353	67	63	461	360	184	103	79	295
29	61	52	57	343	---	63	534	411	140	84	84	370
30	59	51	58	e320	---	64	672	508	88	86	96	373
31	60	---	61	e300	---	69	---	758	---	91	131	---
TOTAL	2954	1755	1901	10414	4240	2111	10625	15907	8042	3124	3538	7496
MEAN	95.29	58.50	61.32	335.9	151.4	68.10	354.2	513.1	268.1	100.8	114.1	249.9
MAX	231	94	205	471	369	136	672	758	810	122	247	373
MIN	59	51	49	58	64	61	96	360	88	72	63	186
AC-FT	5860	3480	3770	20660	8410	4190	21070	31550	15950	6200	7020	14870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2002, BY WATER YEAR (WY)

MEAN	185.3	274.1	449.4	650.5	753.6	791.4	852.4	1280	920.3	337.3	166.1	181.6
MAX	917	2659	3905	7378	3887	4764	3392	4289	5398	2786	816	1172
(WY)	1983	1984	1984	1997	1997	1986	1969	1958	1983	1983	1983	1983
MIN	15.2	18.0	17.5	18.5	20.5	22.4	19.8	21.9	14.8	15.2	16.4	16.3
(WY)	1995	1993	1993	1962	1994	1961	1961	1992	1960	1992	1962	1994

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1958 - 2002	
ANNUAL TOTAL	36383		72107			
ANNUAL MEAN	99.68		197.6		568.9	
HIGHEST ANNUAL MEAN					2609	1983
LOWEST ANNUAL MEAN					24.1	1992
HIGHEST DAILY MEAN	257	Sep 29	810	Jun 1	19300	Jan 3 1997
LOWEST DAILY MEAN	33	Apr 28	49	Dec 1	3.3	Jul 9 1991
ANNUAL SEVEN-DAY MINIMUM	36	Apr 26	53	Dec 11	6.2	Jul 13 1992
MAXIMUM PEAK FLOW			1030	Jun 1	21200	Jan 3 1997
MAXIMUM PEAK STAGE			5.13	Jun 1	15.28	Jan 3 1997
INSTANTANEOUS LOW FLOW					3.3	Jul 9 1991
ANNUAL RUNOFF (AC-FT)	72170		143000		412200	
10 PERCENT EXCEEDS	143		435		1760	
50 PERCENT EXCEEDS	98		108		117	
90 PERCENT EXCEEDS	51		57		24	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1980 to September 1983; August 1993 to current year.
WATER TEMPERATURE: May 1980 to September 1983, July 1988 to current year.

INSTRUMENTATION.--Specific conductance recorder, August 1993 to current year, four times per hour. Water temperature recorder, July 1988 to August 1992, hourly; September 1992 to current year, four times per hour.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,350 microsiemens, October 31, November 1, 1994; minimum daily, 74 microsiemens, April 12, 1983.
WATER TEMPERATURE: Maximum daily, 30.0°C, July 10, 1991; minimum daily, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 687 microsiemens, December 3, minimum recorded, 147 microsiemens, April 16 and June 1-2.
WATER TEMPERATURE: Maximum recorded, 29.0°C, July 11; minimum, freezing point several days during winter months.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	305	290	298	496	481	487	615	576	592	---	---	---
2	331	305	321	494	486	490	641	589	609	---	---	---
3	339	329	335	495	487	491	687	335	517	---	---	---
4	379	336	357	494	484	488	493	344	401	---	---	---
5	391	368	380	499	490	493	---	---	---	---	---	---
6	372	361	367	498	490	495	---	---	---	---	---	---
7	369	362	365	523	494	508	---	---	---	---	---	---
8	369	362	365	523	515	519	---	---	---	---	---	---
9	370	362	366	521	511	515	---	---	---	---	---	---
10	368	357	363	517	503	510	---	---	---	---	---	---
11	368	359	363	514	505	510	---	---	---	---	---	---
12	368	358	363	517	510	513	---	---	---	337	328	331
13	368	359	362	518	505	510	---	---	---	342	335	338
14	379	357	366	513	507	510	---	---	---	345	336	341
15	397	371	387	516	507	512	---	---	---	348	340	343
16	414	393	401	518	509	514	---	---	---	351	340	345
17	440	410	424	525	515	520	---	---	---	348	341	345
18	450	435	443	527	518	523	---	---	---	347	333	340
19	442	428	434	531	521	525	---	---	---	349	326	338
20	430	409	418	530	523	527	---	---	---	349	334	342
21	416	406	411	535	527	531	---	---	---	350	330	341
22	416	402	409	536	526	530	---	---	---	354	337	348
23	416	405	410	538	527	532	---	---	---	349	341	345
24	417	405	409	544	528	535	---	---	---	351	338	345
25	414	405	410	539	529	534	---	---	---	350	337	343
26	417	408	413	539	445	522	---	---	---	352	342	346
27	417	412	414	484	445	462	---	---	---	348	333	342
28	421	415	418	543	478	512	---	---	---	348	339	344
29	460	417	433	569	539	554	---	---	---	352	339	346
30	484	439	466	603	565	579	---	---	---	365	342	354
31	489	466	480	---	---	---	---	---	---	376	345	359
MONTH	489	290	392	603	445	515	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	409	376	393	505	487	496	507	407	475	181	171	173
2	381	357	370	503	489	497	419	383	399	185	174	181
3	367	345	355	512	500	505	407	364	391	186	177	182
4	359	345	351	516	502	511	364	308	349	193	179	185
5	361	350	354	521	507	514	308	250	272	182	170	176
6	361	344	352	523	514	518	255	209	221	174	167	170
7	358	349	354	523	503	515	227	214	217	168	160	163
8	384	356	375	504	355	400	260	225	241	173	157	162
9	486	380	433	427	358	387	282	224	251	177	166	171
10	540	486	513	465	427	453	244	196	206	181	170	175
11	542	518	532	474	458	465	205	199	202	181	166	173
12	567	541	555	475	438	460	203	183	187	188	177	183
13	569	545	555	489	459	482	186	176	182	186	180	183
14	553	545	549	500	488	495	178	170	173	184	174	178
15	556	547	551	500	493	496	194	154	170	178	170	172
16	552	544	548	503	494	498	167	147	153	175	166	170
17	549	538	544	519	502	510	198	166	176	174	162	166
18	541	531	536	522	507	516	224	198	213	173	158	165
19	537	531	533	539	520	528	235	185	210	167	155	162
20	533	523	529	543	532	538	233	204	220	167	148	159
21	555	530	549	552	541	547	229	213	220	171	161	165
22	557	490	526	554	548	552	223	214	219	193	171	181
23	505	485	495	561	550	555	223	209	218	199	190	195
24	506	478	498	553	545	550	220	200	205	205	194	199
25	478	429	442	550	536	542	201	181	189	201	196	198
26	471	437	452	540	532	536	193	173	185	202	192	197
27	488	470	477	541	534	537	177	153	164	194	190	192
28	499	485	491	540	507	531	181	173	177	197	191	194
29	---	---	---	535	506	524	174	161	167	195	183	191
30	---	---	---	535	500	522	174	149	160	199	174	189
31	---	---	---	520	498	510	---	---	---	187	165	173
MONTH	569	344	472	561	355	506	507	147	227	205	148	178

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	166	147	158	474	444	457	381	304	338	418	341	374
2	158	147	154	488	471	479	308	295	302	374	319	344
3	181	156	168	481	472	475	308	289	294	373	312	339
4	197	175	183	485	448	469	316	292	303	375	303	334
5	209	197	204	451	423	435	330	315	325	368	302	330
6	210	182	201	427	366	396	345	328	338	358	313	335
7	213	180	193	367	354	360	374	340	358	364	320	338
8	223	198	208	365	340	356	436	357	387	340	297	312
9	227	210	216	341	335	338	445	403	431	313	300	304
10	226	213	218	345	335	341	404	386	391	332	303	313
11	236	220	226	348	338	344	426	395	415	328	316	324
12	262	229	243	344	333	339	426	411	420	317	300	309
13	275	249	259	342	327	336	415	407	411	302	294	298
14	284	263	269	362	332	343	428	407	416	299	293	296
15	299	266	282	383	362	377	469	426	448	300	293	296
16	301	284	290	388	353	372	470	447	457	298	285	291
17	306	287	297	370	353	363	479	442	455	311	287	300
18	311	295	302	368	359	364	508	478	500	311	297	305
19	315	289	300	378	348	359	501	456	479	299	293	296
20	290	247	260	380	351	358	458	435	445	308	295	299
21	311	256	280	363	345	354	475	450	464	321	307	315
22	377	309	345	368	345	353	466	443	453	307	298	303
23	344	313	324	358	347	354	464	445	456	305	284	291
24	348	323	329	374	350	356	478	415	440	296	288	291
25	357	315	326	365	351	360	517	396	446	311	296	304
26	328	309	317	357	348	354	494	432	467	323	290	301
27	339	319	326	359	348	355	503	438	473	326	318	322
28	331	318	322	363	353	358	523	459	488	323	305	313
29	347	316	328	389	353	375	498	428	462	306	289	295
30	445	347	394	403	381	391	479	410	444	297	289	292
31	---	---	---	403	377	392	476	404	445	---	---	---
MONTH	445	147	264	488	327	376	523	289	418	418	284	312

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	15.5	17.5	13.5	9.0	11.5	7.0	4.0	5.0	6.5	5.5	6.0
2	19.5	16.0	18.0	12.5	9.0	10.5	6.0	4.5	5.5	6.5	5.0	6.0
3	19.5	16.5	18.0	12.5	8.0	10.5	6.0	3.5	4.5	7.5	5.5	6.5
4	20.0	16.5	18.5	12.0	7.5	10.0	5.0	3.0	4.0	6.0	4.5	5.5
5	19.5	16.5	18.0	13.0	9.0	11.0	4.5	3.5	4.0	5.5	4.5	5.0
6	19.0	16.0	17.5	12.5	8.5	10.5	6.0	4.0	5.0	5.0	4.5	5.0
7	19.0	15.0	17.0	12.0	8.5	10.0	7.0	4.0	5.0	5.5	4.0	5.0
8	18.0	15.5	16.5	11.0	6.0	8.5	5.0	3.5	4.0	6.0	4.0	5.0
9	16.0	12.5	14.5	10.0	5.5	7.5	4.0	2.5	3.5	6.5	5.0	5.5
10	14.5	10.5	13.0	9.5	5.5	7.5	3.0	2.0	2.5	6.5	4.5	5.5
11	15.0	13.0	13.5	11.0	7.0	9.0	4.0	1.5	2.5	6.0	4.0	5.0
12	14.5	10.5	13.0	10.5	7.5	9.0	5.5	2.5	4.0	6.5	4.5	5.5
13	15.0	11.0	13.0	11.5	8.0	9.5	5.0	4.0	4.5	6.0	4.0	5.0
14	15.5	11.0	13.5	11.5	9.0	10.0	5.0	2.0	3.5	5.0	3.0	4.0
15	14.5	11.0	13.0	11.0	8.0	9.5	3.5	1.0	2.0	4.0	2.5	3.0
16	14.5	11.5	13.0	11.0	9.0	10.0	2.0	1.5	2.0	3.5	1.0	2.0
17	16.0	13.0	14.0	11.0	8.5	9.5	3.5	1.5	2.0	3.0	1.0	2.0
18	15.5	12.0	14.0	10.0	7.0	8.0	4.5	1.5	3.0	2.5	0.5	1.5
19	14.5	11.0	13.5	8.0	6.0	7.0	4.5	2.5	3.5	1.5	0.0	1.0
20	15.5	12.5	14.0	7.5	6.0	6.5	4.5	2.5	3.5	2.0	0.0	1.0
21	15.5	11.5	13.5	8.0	6.5	7.0	5.5	3.5	4.0	4.0	1.0	2.5
22	15.0	12.0	13.5	9.5	7.0	8.0	4.5	2.5	3.5	3.0	1.0	2.0
23	14.5	12.0	13.0	9.0	5.5	7.0	6.0	3.0	4.5	2.5	0.0	1.5
24	13.0	9.5	11.5	6.5	4.5	5.5	4.5	3.0	4.0	2.5	0.0	1.5
25	13.0	8.5	11.0	7.5	3.5	5.0	3.0	1.5	2.5	2.0	0.5	1.5
26	13.5	9.0	11.0	6.5	3.5	5.0	3.5	2.0	2.5	4.5	1.5	3.0
27	11.5	9.5	10.5	7.0	3.0	4.5	4.0	2.5	3.5	3.0	1.5	2.5
28	13.5	10.5	12.0	3.5	2.0	3.0	3.5	2.5	3.0	2.0	0.5	1.5
29	14.0	10.5	12.0	6.0	3.0	4.0	5.0	3.5	4.5	2.5	0.5	1.5
30	15.0	12.0	13.0	7.5	3.5	4.5	5.5	5.0	5.5	1.5	0.0	0.5
31	14.5	10.5	12.0	---	---	---	8.0	5.5	6.5	1.5	0.0	0.5
MONTH	20.0	8.5	14.1	13.5	2.0	8.0	8.0	1.0	3.8	7.5	0.0	3.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	0.0	1.5	7.5	3.5	5.5	16.5	12.0	14.5	12.5	9.0	11.0
2	4.0	0.5	2.5	7.5	3.0	5.5	18.0	12.5	15.5	15.0	8.5	11.5
3	4.0	0.5	2.5	7.5	3.0	5.5	18.0	13.0	16.0	16.5	11.0	13.5
4	4.0	1.0	2.5	8.5	4.0	6.5	18.5	14.0	16.5	17.5	12.5	15.0
5	4.5	1.0	3.0	9.5	6.0	8.0	17.0	14.5	16.0	18.0	13.5	15.5
6	5.0	1.0	3.0	11.0	8.0	9.5	15.5	11.5	13.5	18.0	13.5	15.5
7	5.0	2.5	4.0	10.5	5.5	8.5	16.0	11.0	13.5	16.0	13.5	14.5
8	5.5	3.0	4.5	8.0	3.5	6.0	17.0	11.5	14.5	16.0	11.0	13.5
9	5.0	2.0	3.5	8.5	5.0	7.0	16.0	13.0	14.5	16.0	11.0	13.5
10	5.5	1.5	3.5	9.0	6.5	7.5	15.0	11.5	13.0	14.0	11.5	12.5
11	6.0	2.0	4.5	10.0	6.0	8.0	16.0	11.5	14.0	16.0	10.5	13.0
12	7.5	4.0	6.0	11.5	9.0	10.0	16.5	12.0	14.5	17.5	11.5	14.0
13	6.0	5.0	5.0	9.5	7.0	8.0	16.5	12.0	14.5	18.5	13.5	16.0
14	8.0	3.5	6.0	9.0	6.0	7.0	17.5	13.5	15.5	18.5	14.0	16.0
15	6.5	4.0	5.5	7.5	4.5	6.0	15.0	9.5	11.5	18.0	14.0	16.0
16	7.5	5.0	6.0	7.0	4.5	5.5	10.5	8.0	9.0	19.5	14.0	16.5
17	8.0	6.0	7.0	7.0	4.0	5.0	9.0	6.5	8.0	20.0	15.0	17.5
18	8.0	5.5	7.0	8.0	2.5	5.0	8.5	7.0	8.0	18.5	16.0	17.0
19	8.5	6.5	7.5	10.5	4.5	7.5	10.5	6.5	8.0	18.0	14.5	16.0
20	10.5	7.5	9.0	12.0	7.0	9.5	12.5	7.0	9.5	15.0	12.0	13.5
21	11.0	7.5	9.5	12.0	8.5	10.0	14.5	9.0	12.0	14.5	10.5	12.5
22	10.5	8.0	9.5	13.0	9.0	11.0	16.5	10.5	13.5	16.0	10.0	13.0
23	10.0	7.5	8.5	12.0	10.0	11.0	17.0	11.5	14.5	17.5	11.5	14.5
24	10.5	6.5	8.5	13.0	9.0	10.5	16.5	12.0	14.5	18.5	12.5	15.5
25	10.5	6.0	8.5	13.0	8.5	11.0	17.0	12.0	14.5	20.0	14.0	17.0
26	9.5	5.5	8.0	14.5	10.0	12.0	15.0	12.5	13.5	20.0	15.0	17.5
27	9.5	6.0	8.0	15.0	10.5	13.0	14.5	11.0	12.5	19.5	15.0	17.5
28	8.5	6.0	7.0	15.0	10.5	12.5	15.0	10.0	12.0	20.5	15.0	18.0
29	---	---	---	16.5	11.0	13.5	12.5	10.5	11.5	22.0	16.5	19.0
30	---	---	---	16.5	11.5	14.0	12.5	9.0	11.0	23.5	18.5	20.5
31	---	---	---	16.5	11.0	14.0	---	---	---	22.5	18.5	20.5
MONTH	11.0	0.0	5.8	16.5	2.5	8.8	18.5	6.5	13.0	23.5	8.5	15.4

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	17.5	19.0	26.5	21.0	23.5	25.5	23.0	24.0	24.0	20.5	22.0
2	19.5	15.0	17.0	27.0	21.0	24.0	25.0	21.5	23.0	24.5	20.0	22.5
3	19.5	14.5	17.0	27.0	21.5	24.0	25.0	21.0	23.0	23.5	20.5	22.0
4	20.5	15.5	18.0	26.0	20.5	23.0	24.5	19.5	22.5	21.5	19.5	20.5
5	23.5	17.5	20.0	26.0	21.0	23.0	23.5	19.5	21.5	21.0	18.0	19.5
6	23.5	18.0	20.5	25.5	21.5	23.5	23.0	18.0	20.5	20.0	17.0	18.5
7	23.0	18.0	20.5	26.5	21.5	24.0	21.5	18.0	20.0	18.5	14.0	16.5
8	20.5	15.0	17.0	25.0	21.5	23.5	23.5	17.5	20.5	19.0	14.5	17.0
9	18.5	12.5	15.5	26.5	21.0	24.0	24.5	18.5	21.5	20.0	15.0	18.0
10	20.5	14.0	17.0	28.0	23.0	25.5	25.0	19.0	22.0	20.5	15.5	18.0
11	22.0	15.0	18.5	29.0	23.5	26.5	25.5	21.0	23.5	20.5	16.0	18.5
12	23.5	16.0	20.0	28.5	25.0	26.5	26.0	21.5	23.5	20.5	16.5	19.0
13	24.0	18.5	21.5	27.5	23.5	25.0	27.0	21.5	24.0	21.5	16.5	19.5
14	24.0	18.5	21.5	28.0	22.0	25.0	26.5	22.0	24.0	21.5	17.0	19.5
15	24.0	19.5	22.0	28.5	23.5	25.5	27.0	21.5	24.0	20.5	18.0	19.5
16	24.0	20.0	22.0	28.0	22.5	25.0	27.0	22.0	24.5	19.5	16.0	18.0
17	24.0	19.5	22.0	25.0	22.5	23.5	26.5	21.5	23.5	19.5	16.5	18.0
18	24.0	20.5	22.5	25.0	20.5	23.0	25.0	20.5	22.5	19.5	16.0	17.5
19	24.0	18.5	21.0	26.5	21.0	23.5	25.0	19.5	22.0	19.5	15.0	17.5
20	24.0	19.0	21.5	28.0	21.5	24.5	23.5	19.0	21.0	20.0	15.0	18.0
21	23.5	19.0	21.5	27.0	23.0	25.0	23.0	17.0	20.0	20.5	16.0	18.5
22	24.5	19.5	22.0	28.0	23.0	25.0	23.0	18.0	20.5	20.5	16.0	18.5
23	25.5	21.0	23.0	26.5	21.5	24.0	23.0	18.0	20.5	20.5	16.0	19.0
24	25.0	21.0	23.0	26.5	21.5	24.0	23.5	18.5	21.0	20.0	16.5	18.5
25	25.5	21.5	23.5	25.5	21.0	23.5	23.0	18.5	20.5	19.5	16.0	18.0
26	25.5	21.5	23.5	25.0	20.5	22.5	23.0	18.0	20.0	18.5	14.0	16.5
27	25.5	21.5	23.5	25.0	21.0	23.0	24.0	17.5	20.5	18.0	16.0	17.0
28	25.0	21.5	23.5	25.0	20.5	22.5	23.0	18.0	20.5	18.0	14.0	16.5
29	25.5	21.0	23.5	26.5	21.0	23.5	24.0	19.5	21.5	17.5	14.0	16.0
30	27.0	21.5	24.0	26.5	23.0	24.5	24.0	20.0	22.0	17.0	13.5	15.0
31	---	---	---	27.0	22.0	24.5	24.5	20.0	22.0	---	---	---
MONTH	27.0	12.5	20.8	29.0	20.5	24.1	27.0	17.0	21.9	24.5	13.5	18.4

BLACK ROCK DESERT

10352500 MCDERMITT CREEK NEAR MCDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE $^1/_4$ SE $^1/_4$ sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left bank, approximately 100 feet upstream from highway bridge on Cordero Mine Road, and 6.5 mi southwest of McDermitt.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--October 1948 to September 1984, March 1985 to current year.

REVISED RECORDS.--WSP 1214: 1949-50 (P).

GAGE.--Water-stage recorder. Elevation of gage is 4,545 ft above NGVD of 1929, from topographic map. October 1948 to May 11, 1972, at site approximately 500 ft upstream from highway bridge, on left bank. May 11, 1972, to April 1983, at site approximately 800 ft upstream from highway bridge, on right bank, at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. One diversion for about 1,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft^3/s, about February 1, 1963, gage height, 8.64 ft; in gage well, from rating curve extended above 250 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 9.22 ft, about March 17, 1993; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
April 5	0200	*520	*5.20	No other peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.4	12	e5.6	e5.0	25	274	61	46	16	e3.1	e1.5
2	3.1	5.3	10	e5.8	e4.9	26	316	62	71	18	e3.0	e1.5
3	3.1	5.3	9.4	e6.2	e4.9	24	253	64	64	15	e2.9	e1.5
4	3.1	5.2	9.7	e6.2	e5.0	23	274	74	49	13	e2.8	e1.5
5	3.1	5.3	e6.0	e6.0	e5.0	24	322	73	38	10	e2.8	1.5
6	2.9	5.3	6.5	e6.1	e5.4	26	281	78	34	8.7	e2.9	1.8
7	2.9	5.3	7.1	e9.0	e5.5	58	225	84	36	7.8	e2.9	2.3
8	3.0	5.6	e8.0	e13	e5.1	38	192	73	35	6.1	e2.9	2.3
9	3.2	5.2	e8.0	e12	e5.0	34	162	58	35	5.3	e2.8	2.2
10	3.5	5.0	e7.0	e11	e5.0	31	169	56	35	4.7	e2.8	2.1
11	3.9	5.7	e8.0	e9.7	e5.9	26	140	55	30	4.0	e2.8	1.8
12	4.0	6.3	e8.5	e8.7	e5.3	39	157	39	25	e3.7	e2.8	1.7
13	4.0	5.8	e9.5	e7.8	e5.0	65	139	36	23	e3.4	e2.7	1.7
14	3.9	5.7	e10	e7.2	e4.2	43	175	40	20	3.3	e2.5	1.7
15	3.9	5.7	e9.0	e6.8	e4.2	34	196	37	21	e3.5	e2.4	1.7
16	4.0	5.6	e8.5	e6.5	e4.5	32	114	35	22	e3.5	e2.2	2.1
17	4.1	5.9	e8.5	e6.4	e5.9	25	93	40	20	e3.8	e2.1	2.6
18	4.2	6.1	e8.1	e6.2	e8.2	23	87	41	22	e4.0	e2.1	2.6
19	4.3	5.5	e7.3	e6.1	16	26	72	45	21	e4.6	e2.1	2.4
20	4.3	5.8	e6.7	e6.2	33	26	74	61	24	4.9	e2.1	2.2
21	4.3	6.0	e6.4	e6.1	36	44	63	74	23	5.9	e2.0	2.1
22	4.3	7.4	e6.3	e5.2	47	80	59	59	34	4.8	e2.0	2.1
23	4.3	8.5	e6.1	e5.1	64	114	63	54	28	4.6	e1.9	2.1
24	4.6	6.9	e6.3	e5.8	54	117	62	49	23	4.4	e1.8	1.8
25	4.7	5.9	e6.6	e6.3	43	108	57	41	21	4.2	e1.8	1.9
26	4.7	e5.8	e7.0	e6.8	33	99	57	40	19	3.9	e1.7	1.9
27	4.7	e5.6	e6.6	e6.0	30	120	56	39	18	3.7	e1.6	2.1
28	5.0	e5.6	e6.5	e5.0	29	135	61	37	18	3.4	e1.6	2.2
29	4.9	e5.8	e6.5	e4.9	---	185	55	41	18	3.3	e1.6	2.4
30	5.1	8.6	e6.2	e4.9	---	216	59	46	17	e3.2	e1.6	2.5
31	5.3	---	e6.0	e5.0	---	239	---	47	---	e3.2	e1.6	---
TOTAL	123.6	177.1	238.3	213.6	479.0	2105	4307	1639	890	187.9	71.9	59.8
MEAN	3.987	5.903	7.687	6.890	17.11	67.90	143.6	52.87	29.67	6.061	2.319	1.993
MAX	5.3	8.6	12	13	64	239	322	84	71	18	3.1	2.6
MIN	2.9	5.0	6.0	4.9	4.2	23	55	35	17	3.2	1.6	1.5
AC-FT	245	351	473	424	950	4180	8540	3250	1770	373	143	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY)

MEAN	4.564	7.058	11.60	21.81	42.87	80.69	98.47	74.79	35.32	9.482	3.024	2.736
MAX	10.0	17.3	50.9	108	302	353	600	310	140	46.5	15.4	9.96
(WY)	1984	1984	1956	1997	1986	1993	1952	1984	1983	1984	1983	1984
MIN	0.69	2.06	2.46	2.26	4.82	6.63	4.08	2.74	0.77	0.14	0.000	0.000
(WY)	1982	1993	1950	1950	1955	1992	1992	1992	1992	1992	1992	1960

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1949 - 2002	
ANNUAL TOTAL	2437.35		10492.2			
ANNUAL MEAN	6.678		28.75		32.59	
HIGHEST ANNUAL MEAN					98.2	1984
LOWEST ANNUAL MEAN					4.11	1992
HIGHEST DAILY MEAN	34	Mar 22	322	Apr 5	2800	Feb 1 1963
LOWEST DAILY MEAN	0.07	Jun 24	1.5	Sep 1	0.00	Sep 8 1955
ANNUAL SEVEN-DAY MINIMUM	0.87	Jun 19	1.5	Aug 30	0.00	Sep 8 1955
MAXIMUM PEAK FLOW			520	Apr 5	3970	Feb 1 1963
MAXIMUM PEAK STAGE			5.20	Apr 5	9.22	Mar 17 1993
ANNUAL RUNOFF (AC-FT)	4830		20810		23610	
10 PERCENT EXCEEDS	12		71		84	
50 PERCENT EXCEEDS	5.7		6.3		8.4	
90 PERCENT EXCEEDS	1.5		2.2		1.8	

e Estimated

SUMMIT LAKE BASIN

10353750 MAHOGANY CREEK NEAR SUMMIT LAKE, NV

LOCATION.--Lat 41°32'42", long 119°00'34", in SE $^1/_4$ NE $^1/_4$ sec.21, T.42 N., R.26 E., Humboldt County, Hydrologic Unit 16040202, on right bank, 2.8 mi northeast of Summit Lake, and 78 mi north of Gerlach.

DRAINAGE AREA.--13.3 mi^2, approximately.

PERIOD OF RECORD.--July 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,080 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50 ft^3/s, June 5, 1995, gage height, 5.34 ft; maximum gage height, 5.56 ft, June 17, 1998, backwater effect from tree; minimum daily , 0.32 ft^3/s, August 1, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.5 ft^3/s, June 3, gage height, 4.62 ft; maximum gage height, 5.03 ft, January 30, backwater from ice; minimum daily, 0.96 ft^3/s, October 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	1.5	1.6	e1.6	1.5	e1.5	2.7	4.2	5.6	2.9	1.3	1.3
2	0.97	1.5	1.6	e1.6	1.5	1.6	2.9	4.1	6.1	2.8	1.4	1.2
3	0.97	1.5	1.6	e1.7	1.5	1.5	3.1	4.1	8.2	2.8	1.4	1.2
4	0.98	1.5	1.5	e1.6	1.5	1.5	3.4	4.1	8.2	2.6	1.4	1.1
5	0.99	1.5	1.5	e1.6	1.5	1.5	3.5	4.2	7.9	2.5	1.4	1.2
6	0.99	1.5	1.6	e1.6	1.5	1.6	3.6	4.3	7.5	2.5	1.4	1.4
7	1.00	1.4	1.5	e1.8	1.5	1.5	3.5	4.4	7.1	2.4	1.4	1.4
8	1.0	1.4	1.5	2.1	1.5	e1.5	3.7	4.2	6.6	2.3	1.4	1.4
9	1.1	1.4	1.5	2.0	1.5	1.5	4.0	4.2	6.5	2.2	1.5	1.4
10	1.1	1.5	e1.5	e1.9	1.5	1.5	4.0	4.4	6.6	2.0	1.8	1.3
11	1.2	1.5	1.5	e1.9	1.5	1.6	3.9	4.1	6.1	2.0	1.9	1.3
12	1.2	1.5	1.6	e1.9	1.5	1.7	4.1	4.0	5.7	1.9	1.9	1.3
13	1.1	2.1	1.6	2.0	1.6	1.6	4.3	4.0	5.0	1.9	1.8	1.2
14	1.1	2.0	1.6	1.6	1.6	1.6	5.6	4.0	5.5	1.9	1.7	1.2
15	1.1	1.5	e1.6	1.5	1.6	1.6	6.1	4.0	5.3	1.8	1.7	1.2
16	1.1	1.5	1.5	1.5	1.6	1.6	5.3	4.1	5.2	1.7	1.6	1.4
17	1.2	1.5	1.5	1.6	1.6	1.7	4.7	4.0	5.2	1.7	1.6	1.3
18	1.2	2.0	1.5	1.5	1.6	e1.7	4.3	4.2	4.9	2.0	1.5	1.4
19	1.2	1.8	1.5	1.5	1.6	1.7	4.1	4.3	4.8	1.9	1.5	1.4
20	1.2	1.5	1.5	1.5	1.7	1.9	3.8	4.5	4.7	1.8	1.6	1.3
21	1.2	1.6	1.5	1.5	1.7	2.0	3.8	4.6	4.9	1.6	1.8	1.3
22	1.2	1.9	1.5	e1.5	1.7	2.1	3.8	4.5	4.7	1.5	1.7	1.5
23	1.2	1.4	1.5	1.5	1.7	2.1	3.8	4.4	4.2	1.5	1.9	1.5
24	1.3	1.4	1.5	1.5	1.6	2.1	3.8	4.3	4.0	1.5	1.9	1.5
25	1.3	1.4	1.5	1.6	1.5	2.0	4.0	4.2	3.7	1.5	1.7	1.6
26	1.3	1.5	e1.5	1.6	1.5	2.0	4.3	4.2	3.5	1.5	1.7	1.8
27	1.3	1.6	e1.5	1.6	1.5	2.1	4.5	4.3	3.4	1.5	1.7	1.8
28	1.4	1.5	e1.5	e1.6	1.5	2.2	4.4	4.4	3.3	1.5	1.5	1.9
29	1.4	1.6	e1.5	e1.5	---	2.3	4.5	4.5	3.0	1.4	1.5	1.9
30	1.6	1.6	e1.5	e1.5	---	2.4	4.4	4.9	3.0	1.4	1.7	2.0
31	1.5	---	e1.6	1.5	---	2.5	---	5.3	---	1.4	1.6	---
TOTAL	36.36	47.1	47.4	50.9	43.6	55.7	121.9	133.0	160.4	59.9	49.9	42.7
MEAN	1.173	1.570	1.529	1.642	1.557	1.797	4.063	4.290	5.347	1.932	1.610	1.423
MAX	1.6	2.1	1.6	2.1	1.7	2.5	6.1	5.3	8.2	2.9	1.9	2.0
MIN	0.96	1.4	1.5	1.5	1.5	1.5	2.7	4.0	3.0	1.4	1.3	1.1
AC-FT	72	93	94	101	86	110	242	264	318	119	99	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

MEAN	1.786	1.844	1.706	1.772	1.883	2.599	3.976	8.778	8.604	3.773	1.828	1.603
MAX	3.90	3.87	3.57	3.55	3.25	3.96	6.90	27.9	29.2	13.7	5.41	4.33
(WY)	1999	1999	1999	1997	1999	1999	1996	1998	1998	1998	1998	1998
MIN	0.83	0.90	0.90	1.04	1.28	1.42	1.96	1.36	0.82	0.55	0.39	0.46
(WY)	1993	1993	1995	1993	1989	1991	1994	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	700.89		848.86			
ANNUAL MEAN	1.920		2.326		3.354	
HIGHEST ANNUAL MEAN					8.41	1998
LOWEST ANNUAL MEAN					1.21	1992
HIGHEST DAILY MEAN	4.7	Mar 21	8.2	Jun 3	47	Jun 5 1995
LOWEST DAILY MEAN	0.84	Sep 2	0.96	Oct 1	0.32	Aug 1 1992
ANNUAL SEVEN-DAY MINIMUM	0.85	Aug 29	0.98	Oct 1	0.33	Jul 31 1992
MAXIMUM PEAK FLOW			9.5	Jun 3	50	Jun 5 1995
MAXIMUM PEAK STAGE			4.62	Jun 3	5.56	Jun 17 1998
INSTANTANEOUS LOW FLOW			0.91	Oct 1	0.32	Aug 1 1992
ANNUAL RUNOFF (AC-FT)	1390		1680		2430	
10 PERCENT EXCEEDS	3.4		4.4		6.3	
50 PERCENT EXCEEDS	1.7		1.6		2.0	
90 PERCENT EXCEEDS	0.97		1.3		0.94	

e Estimated

SMOKE CREEK DESERT

10353800 SMOKE CREEK BELOW RESERVOIR NEAR SMOKE CREEK, NV

LOCATION.--Lat 40°30'33", long 119°52'24", in NE $^1/_4$ NW $^1/_4$ sec.5, T.30 N., R.19 E., Washoe County, Hydrologic Unit 16040203, on left bank, 11.2 mi south of Buffalo Creek Ranch, and 38.1 mi southwest of Gerlach.

DRAINAGE AREA.--224 mi^2.

PERIOD OF RECORD.--December 1988 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 3,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,320 ft^3/s, March 9, 1995, gage height, 8.43 ft; no flow many days, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1986 reached a stage of 9.00 ft, present datum, from floodmarks; discharge 2,270 ft^3/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft^3/s, January 16, gage height, 4.76 ft, maximum gage height, 4.88 ft, January 19, due to ice; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	1.9	5.8	17	4.9	18	5.4	3.9	2.5	0.00	0.00	0.00
2	0.00	2.1	7.8	29	7.6	5.9	5.3	3.6	2.5	0.00	0.00	0.00
3	0.00	2.1	6.9	34	12	1.7	5.4	3.3	2.2	0.00	0.00	0.00
4	0.00	2.1	6.3	34	5.5	3.8	5.4	3.1	1.8	0.00	0.00	0.00
5	0.00	2.1	5.9	34	5.0	5.5	5.4	3.0	1.6	0.00	0.00	0.00
6	0.00	2.1	5.5	34	5.3	5.7	5.4	2.9	1.4	0.00	0.00	0.00
7	0.00	2.2	4.9	33	4.8	6.5	5.4	2.8	1.1	0.00	0.00	0.00
8	0.00	2.2	4.2	32	4.7	6.3	4.9	2.9	1.6	0.00	0.00	0.00
9	0.00	2.4	4.8	24	3.8	14	3.4	3.1	2.0	0.00	0.00	0.00
10	0.00	2.5	6.3	17	4.0	15	3.2	3.3	1.9	0.00	0.00	0.00
11	0.00	2.6	4.9	16	4.2	13	3.1	3.5	1.5	0.00	0.00	0.00
12	0.00	2.7	4.8	16	4.5	9.9	3.0	3.2	0.60	0.00	0.00	0.00
13	0.00	2.9	5.4	15	4.3	8.7	2.9	3.1	0.15	0.00	0.00	0.00
14	0.00	2.9	5.3	14	4.0	8.4	2.6	3.0	0.00	0.00	0.00	0.00
15	0.25	3.0	2.6	20	4.0	8.3	2.5	3.0	0.00	0.00	0.00	0.00
16	0.78	3.0	3.7	21	4.4	8.5	2.7	3.0	0.00	0.00	0.00	0.00
17	0.92	3.0	5.2	20	5.0	8.4	3.0	3.0	0.00	0.00	0.00	0.00
18	1.2	3.0	3.8	e17	4.7	8.5	3.1	3.0	0.00	0.00	0.00	0.00
19	1.1	3.3	4.3	e15	5.2	8.5	2.9	2.9	0.00	0.00	0.00	0.00
20	1.1	4.0	3.9	e12	9.8	8.1	2.9	3.2	0.00	0.00	0.00	0.00
21	1.1	3.7	3.7	10	24	7.7	2.9	3.5	0.00	0.00	0.00	0.00
22	1.2	4.3	3.4	8.1	20	7.5	2.8	3.6	0.00	0.00	0.00	0.00
23	1.2	3.8	3.5	e7.1	25	7.5	2.7	3.5	0.00	0.00	0.00	0.00
24	1.2	5.4	4.2	e6.1	28	7.5	2.6	3.4	0.00	0.00	0.00	0.00
25	1.2	6.4	4.5	5.2	28	7.5	2.7	3.3	0.00	0.00	0.00	0.00
26	1.3	7.9	5.6	6.1	28	7.5	2.7	3.2	0.00	0.00	0.00	0.00
27	1.4	7.2	5.4	5.2	29	4.5	3.4	3.3	0.00	0.00	0.00	0.00
28	1.5	8.3	5.3	5.5	29	3.8	3.5	3.2	0.00	0.00	0.00	0.00
29	1.4	7.5	5.5	5.3	---	5.1	4.3	3.0	0.00	0.00	0.00	0.02
30	1.6	5.9	5.7	e5.0	---	5.4	4.8	2.8	0.00	0.00	0.00	0.39
31	1.9	---	8.6	e5.0	---	5.4	---	2.7	---	0.00	0.00	---
TOTAL	20.35	112.5	157.7	522.6	318.7	242.1	110.3	98.3	20.85	0.00	0.00	0.41
MEAN	0.656	3.750	5.087	16.86	11.38	7.810	3.677	3.171	0.695	0.000	0.000	0.014
MAX	1.9	8.3	8.6	34	29	18	5.4	3.9	2.5	0.00	0.00	0.39
MIN	0.00	1.9	2.6	5.0	3.8	1.7	2.5	2.7	0.00	0.00	0.00	0.00
AC-FT	40	223	313	1040	632	480	219	195	41	0.00	0.00	0.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

MEAN	3.288	3.885	8.277	27.68	39.89	40.63	14.29	15.45	2.982	1.080	1.093	1.323
MAX	13.9	10.8	35.1	167	196	162	66.0	106	18.9	4.82	4.85	5.55
(WY)	2000	1996	1997	1995	1996	1993	1995	1995	1998	1995	1995	1998
MIN	0.000	0.000	0.000	1.35	3.96	2.95	1.32	0.005	0.000	0.000	0.000	0.000
(WY)	1991	1991	1995	1993	1992	1992	1990	1994	1990	1991	1989	1989

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1989 - 2002	
ANNUAL TOTAL	1072.78		1603.81			
ANNUAL MEAN	2.939		4.394		13.65	
HIGHEST ANNUAL MEAN					51.1	1995
LOWEST ANNUAL MEAN					1.41	1992
HIGHEST DAILY MEAN	12	Jan 14	34	Jan 3	1790	Jan 14 1995
LOWEST DAILY MEAN	0.00	May 18	0.00	Oct 1	0.00	Jul 6 1989
ANNUAL SEVEN-DAY MINIMUM	0.00	May 18	0.00	Oct 1	0.00	Jul 6 1989
MAXIMUM PEAK FLOW			48	Jan 16	4320	Mar 9 1995
MAXIMUM PEAK STAGE			4.76	Jan 16	8.43	Mar 9 1995
ANNUAL RUNOFF (AC-FT)	2130		3180		9890	
10 PERCENT EXCEEDS	8.2		9.1		22	
50 PERCENT EXCEEDS	1.2		2.9		3.5	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

e Estimated

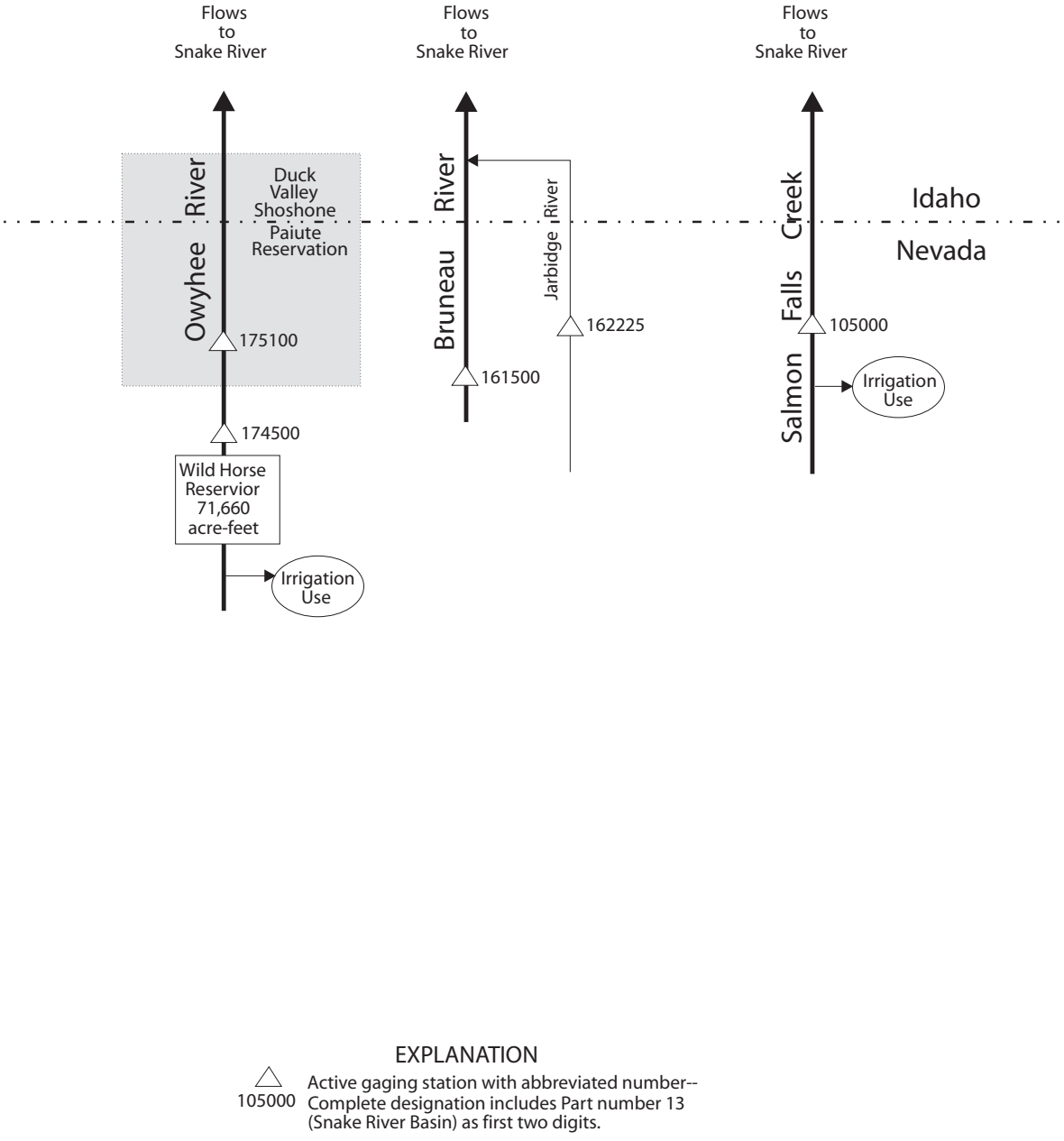


Figure 27. Schematic diagram of flow system and gaging statons in the Snake River basin.

SALMON FALLS CREEK BASIN

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

OCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, Nevada, Hydrologic Unit 17040213, on right bank in canyon, 630 ft downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 mi north of San Jacinto.

DRAINAGE AREA.--1,450 mi^2, approximately. Mean elevation, 6,350 ft.

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as "Salmon Falls River".

REVISED RECORDS.--WSP 1934: 1943(M).

GAGE.--Water-stage recorder. Elevation of gage is 5,120 ft above NGVD of 1929, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910 to September 30, 1916, October 1, 1918 to August 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 18,200 acres (1966 determination). Salmon Dam of Salmon River Canal Co. is 15 mi downstream (see sta 13106500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft^3/s May 16, 1984, gage height, 14.27 ft; minimum, 2.6 ft^3/s September 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 555 ft^3/s May 2; minimum daily, 12 ft^3/s August 22-31, September 1-5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	49	41	59	50	60	236	414	272	46	21	12
2	37	47	53	60	51	58	291	555	359	43	19	12
3	37	47	56	61	47	59	311	499	414	40	20	12
4	36	46	57	57	47	60	306	470	352	37	20	12
5	37	46	e56	52	45	61	318	459	305	32	20	12
6	38	46	e55	60	46	63	371	453	269	29	20	17
7	38	46	e54	60	52	68	422	457	242	30	19	24
8	39	46	e53	60	55	70	408	464	232	34	18	25
9	40	46	e54	61	53	64	379	434	220	35	17	25
10	e39	46	e52	60	52	65	368	401	209	33	17	24
11	e40	48	49	55	52	66	357	378	204	32	16	23
12	e41	49	51	58	55	69	341	344	189	30	15	23
13	e41	49	50	56	52	79	336	312	169	28	14	22
14	e41	48	55	53	53	86	365	305	149	30	14	21
15	e41	48	50	56	53	78	425	313	124	30	14	26
16	e41	48	44	49	56	75	501	321	110	30	14	29
17	e41	48	47	51	60	72	463	291	101	28	14	28
18	e41	49	52	47	61	71	426	292	95	29	13	32
19	e42	49	54	36	62	69	376	291	89	25	13	32
20	e42	48	52	47	68	70	352	302	85	29	13	31
21	e43	47	50	55	69	77	326	341	84	30	13	30
22	e42	50	41	49	71	92	308	367	84	29	12	30
23	e44	53	47	45	69	108	305	347	78	26	12	30
24	44	50	46	49	69	118	307	310	77	24	12	30
25	45	49	32	53	67	117	301	260	72	24	12	30
26	45	46	28	55	66	114	299	238	66	24	12	31
27	45	46	40	55	64	117	320	221	64	25	12	34
28	46	33	50	49	61	134	340	215	61	23	12	35
29	46	42	49	37	---	162	331	198	58	22	12	36
30	46	48	52	35	---	174	330	205	52	22	12	36
31	48	---	55	44	---	198	---	228	---	21	12	---
TOTAL	1282	1413	1525	1624	1606	2774	10519	10685	4885	920	464	764
MEAN	41.35	47.10	49.19	52.39	57.36	89.48	350.6	344.7	162.8	29.68	14.97	25.47
MAX	48	53	57	61	71	198	501	555	414	46	21	36
MIN	36	33	28	35	45	58	236	198	52	21	12	12
AC-FT	2540	2800	3020	3220	3190	5500	20860	21190	9690	1820	920	1520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2002, BY WATER YEAR (WY)

MEAN	49.33	58.56	58.66	68.62	97.60	164.2	347.9	458.5	273.9	63.03	27.66	32.36
MAX	92.0	105	130	201	377	588	865	2033	1209	344	127	77.6
(WY)	1985	1985	1965	1971	1943	1972	1942	1984	1984	1984	1984	1984
MIN	18.1	34.6	36.9	38.0	44.4	55.5	77.4	52.0	23.0	12.5	8.16	9.79
(WY)	1916	1916	1932	1955	1955	1955	1934	1934	1992	1931	1940	1947

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1910 - 2002	
ANNUAL TOTAL	22853		38461			
ANNUAL MEAN	62.61		105.4		141.4	
HIGHEST ANNUAL MEAN					439	1984
LOWEST ANNUAL MEAN					45.4	1934
HIGHEST DAILY MEAN	239	Mar 29	555	May 2	3620	May 16 1984
LOWEST DAILY MEAN	11	Aug 8	12	Aug 22	3.2	Sep 4 1961
ANNUAL SEVEN-DAY MINIMUM	11	Aug 23	12	Aug 22	5.7	Sep 1 1961
ANNUAL RUNOFF (AC-FT)	45330		76290		102500	
10 PERCENT EXCEEDS	152		328		394	
50 PERCENT EXCEEDS	47		50		63	
90 PERCENT EXCEEDS	15		21		26	

e Estimated

BRUNEAU RIVER BASIN

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW $^1/_4$ SE $^1/_4$ sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank, 2 mi upstream from McDonald Creek, and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above NGVD of 1929, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft^3/s, May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft^3/s, September 18, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 6	1545	*684	*5.80	June 1	2315	366	4.43
May 1	1645	561	5.19				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	10	21	e14	e14	e28	406	485	296	47	6.9	4.9
2	5.5	9.7	17	e14	e12	e27	481	512	340	44	6.6	4.5
3	5.5	9.5	17	e13	e11	e26	505	519	288	40	6.3	4.2
4	5.9	9.3	15	e14	e10	e30	513	474	250	38	6.6	3.9
5	5.8	9.5	16	e16	e14	e34	578	450	228	36	6.2	4.3
6	5.9	9.4	21	e16	e17	e34	621	437	218	34	5.9	5.6
7	6.2	8.9	17	e16	e14	e35	557	430	209	32	5.8	7.4
8	6.7	8.8	18	e16	e13	e32	467	381	197	28	5.9	7.9
9	7.0	8.6	20	e16	e13	e39	420	349	185	26	5.8	6.9
10	7.1	9.1	17	e15	e14	e42	397	322	174	24	5.6	6.2
11	7.9	9.3	16	e15	e15	e43	368	296	157	21	5.2	5.8
12	8.4	10	e16	e15	e14	e45	373	281	142	19	4.8	5.5
13	7.5	10	e16	e15	e13	e47	401	285	130	18	4.6	5.3
14	7.2	11	e16	e15	e14	e48	485	297	122	18	4.4	5.0
15	7.0	11	e16	e16	e14	46	521	299	118	17	4.1	4.6
16	7.0	10	e15	e16	e14	46	374	297	112	17	3.9	4.7
17	7.1	11	e15	e16	e13	45	328	290	106	17	3.8	7.0
18	7.3	11	e15	e15	e14	43	286	296	103	18	3.8	9.8
19	8.1	11	e15	e12	e16	44	259	316	98	17	3.8	8.2
20	8.2	11	e15	e14	e19	45	239	330	94	15	3.9	7.0
21	8.1	13	e15	e14	e20	56	222	326	93	14	4.2	6.3
22	8.3	23	e14	e14	e22	82	221	303	94	12	4.7	6.2
23	8.7	18	e13	e14	e24	105	228	261	90	11	5.1	6.2
24	8.8	14	e13	e14	e28	101	227	231	76	9.6	6.0	6.0
25	8.7	14	e13	e13	e26	95	239	208	71	9.0	5.5	5.8
26	8.8	14	e14	e13	e28	95	269	196	66	8.7	5.0	6.0
27	8.8	12	e14	e13	e24	119	283	191	63	8.6	5.0	6.2
28	8.8	12	e14	e14	e28	171	265	195	59	8.3	5.4	6.6
29	8.7	17	e14	e13	---	233	272	213	54	7.9	5.5	7.1
30	9.3	17	e14	e12	---	279	317	240	51	7.3	5.2	7.3
31	11	---	e14	e14	---	357	---	262	---	6.8	5.2	---
TOTAL	234.8	352.1	486	447	478	2472	11122	9972	4284	629.2	160.7	182.4
MEAN	7.574	11.74	15.68	14.42	17.07	79.74	370.7	321.7	142.8	20.30	5.184	6.080
MAX	11	23	21	16	28	357	621	519	340	47	6.9	9.8
MIN	5.5	8.6	13	12	10	26	221	191	51	6.8	3.8	3.9
AC-FT	466	698	964	887	948	4900	22060	19780	8500	1250	319	362

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

MEAN	21.58	27.48	28.33	38.54	54.48	159.3	315.1	384.1	212.5	52.19	16.72	14.54
MAX	52.2	58.5	56.3	137	276	608	666	1256	744	257	86.5	39.8
(WY)	1985	1985	1976	1971	1986	1972	1914	1984	1984	1984	1984	1984
MIN	7.57	11.7	11.9	12.0	16.0	37.4	55.0	50.4	14.7	5.60	2.59	3.87
(WY)	2002	2002	1993	1992	2001	1981	1968	1992	1992	1992	2001	1981

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1913 - 2002	
ANNUAL TOTAL	13087.9		30820.2			
ANNUAL MEAN	35.86		84.44		110.4	
HIGHEST ANNUAL MEAN					290	1984
LOWEST ANNUAL MEAN					24.2	1992
HIGHEST DAILY MEAN	224	Apr 28	621	Apr 6	2070	May 14 1984
LOWEST DAILY MEAN	1.7	Aug 28	3.8	Aug 17	1.7	Aug 28 2001
ANNUAL SEVEN-DAY MINIMUM	1.9	Aug 26	3.9	Aug 15	1.9	Aug 26 2001
MAXIMUM PEAK FLOW			684	Apr 6	2140	May 14 1984
MAXIMUM PEAK STAGE			5.80	Apr 6	12.01	May 14 1984
ANNUAL RUNOFF (AC-FT)	25960		61130		79990	
10 PERCENT EXCEEDS	129		297		338	
50 PERCENT EXCEEDS	14		15		35	
90 PERCENT EXCEEDS	3.5		5.8		10	

e Estimated

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, April 1998 to April 2000, April, 2002.

REMARKS.--In April 1998, station was established in cooperation with the U.S. Forest Service to collect sediment data.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	BAG MESH BEDLOAD SAMPLER (MM) (30333)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)
APR													
01...	1200	382	--	--	--	--	--	--	--	--	--	--	--
01...	1224	382	22	.250	0	0	1	22	53	72	78	79	79
02...	0950	448	--	--	--	--	--	--	--	--	--	--	--
02...	1100	448	22	.250	0	0	1	19	47	66	78	89	95
03...	1017	476	--	--	--	--	--	--	--	--	--	--	--
08...	1130	451	22	.250	0	0	1	22	55	74	82	90	96
09...	1000	418	--	--	--	--	--	--	--	--	--	--	--
09...	1014	418	22	.250	0	0	0	13	32	49	71	90	97

Date	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR					
01...	--	--	133	137	88
01...	79	100	--	--	--
02...	--	--	198	240	87
02...	100	--	--	--	--
03...	--	--	139	179	81
08...	100	--	62	75.5	77
09...	--	--	51	57.6	79
09...	100	--	--	--	--

BRUNEAU RIVER BASIN

13162225 JARBIDGE RIVER BELOW JARBIDGE, NV

LOCATION.--Lat 41°53'26", long 115°25'40", in SW $^1/_4$ NW $^1/_4$ sec.09, T.46 N., R.58 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on right bank, 1.0 mi north of Jarbidge.

DRAINAGE AREA.--30.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 565 ft^3/s, June 1, gage height, 5.11 ft; minimum daily, 2.6 ft^3/s, October 1, 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.5	6.5	5.7	e5.5	e5.4	40	85	467	28	5.0	4.3
2	2.6	4.2	6.1	5.9	e5.6	e5.1	47	85	446	26	4.9	3.9
3	2.8	4.0	5.8	6.1	e5.4	e4.5	51	90	347	22	5.7	3.7
4	3.0	4.0	5.4	5.8	e5.2	e5.2	61	91	276	19	7.0	3.7
5	3.1	4.3	e4.5	6.1	e4.8	e6.0	75	94	256	18	6.8	4.5
6	3.1	4.4	e5.7	7.1	e5.3	e6.1	79	103	263	17	6.7	4.9
7	3.2	4.3	e5.1	9.0	e6.0	e6.0	70	106	253	16	6.9	6.6
8	3.4	4.1	e4.5	8.7	e5.6	e5.6	61	90	209	14	6.8	5.6
9	3.6	4.3	5.6	7.7	e5.1	e5.2	58	82	156	14	6.5	5.3
10	3.6	4.4	5.7	e6.0	e4.3	e6.0	53	70	122	12	6.1	4.8
11	4.2	4.6	5.4	7.1	e5.7	e5.9	49	64	102	12	5.4	4.5
12	4.2	4.5	e4.8	7.0	e5.1	e5.9	57	69	88	11	5.3	4.4
13	4.0	4.7	e5.6	6.8	e4.7	e5.8	74	89	85	11	5.2	3.9
14	3.8	4.7	e5.3	7.5	e6.2	e5.5	110	118	95	10	5.0	3.7
15	3.7	4.6	e4.5	7.0	e4.9	e5.4	112	130	103	10	4.7	3.4
16	3.7	4.3	e5.2	e6.5	e5.8	e5.4	81	117	104	9.8	4.6	3.8
17	3.7	4.4	5.7	e5.5	e5.5	e5.3	60	144	100	9.8	4.4	6.8
18	3.5	4.5	5.6	e7.0	e5.4	e5.5	46	181	92	10	4.7	8.7
19	3.5	4.2	5.7	e5.5	e5.7	e5.9	39	241	82	9.5	4.7	5.4
20	3.5	4.4	5.7	6.5	e5.5	6.6	34	246	72	8.7	4.7	4.9
21	3.5	4.6	e5.4	6.6	e5.3	8.9	32	181	64	8.0	5.0	4.6
22	3.5	6.9	e5.2	e5.0	e5.7	13	41	111	63	7.4	4.8	4.4
23	4.3	5.5	e5.0	e5.0	e6.0	14	50	85	57	6.9	5.0	4.4
24	4.1	5.1	e4.8	6.4	e5.6	13	51	77	51	6.6	5.2	4.0
25	4.0	5.7	e5.1	6.0	e5.7	11	57	75	47	6.3	4.6	4.0
26	4.0	5.5	e5.6	6.1	e5.8	11	68	75	43	6.2	4.4	4.1
27	3.8	5.4	6.1	6.6	e4.9	14	67	81	39	6.0	4.7	4.2
28	3.7	e4.2	5.7	7.3	e5.5	17	57	115	36	5.8	5.1	4.4
29	3.7	e4.6	5.5	e6.0	---	22	60	190	33	5.6	4.9	4.6
30	3.9	e5.2	5.6	e4.5	---	26	71	291	30	5.4	4.6	4.7
31	6.3	---	5.7	e5.5	---	31	---	437	---	5.2	4.6	---
TOTAL	113.6	140.1	168.1	199.5	151.8	293.2	1811	4013	4181	357.2	164.0	140.2
MEAN	3.665	4.670	5.423	6.435	5.421	9.458	60.37	129.5	139.4	11.52	5.290	4.673
MAX	6.3	6.9	6.5	9.0	6.2	31	112	437	467	28	7.0	8.7
MIN	2.6	4.0	4.5	4.5	4.3	4.5	32	64	30	5.2	4.4	3.4
AC-FT	225	278	333	396	301	582	3590	7960	8290	709	325	278

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

MEAN	5.537	6.467	5.963	6.102	7.053	13.41	45.28	129.4	113.0	20.05	5.481	4.560
MAX	8.33	9.66	7.52	6.64	8.47	17.7	60.4	170	189	55.4	9.15	6.86
(WY)	1999	1999	1999	1999	2001	1999	2002	1999	1998	1998	1998	1998
MIN	3.66	4.67	5.42	5.22	5.42	9.46	27.5	105	28.5	6.96	3.02	3.06
(WY)	2002	2002	2002	2001	2002	2002	2001	2000	2001	2000	2000	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1998 - 2002	
ANNUAL TOTAL	6986.2		11732.7			
ANNUAL MEAN	19.14		32.14		27.84	
HIGHEST ANNUAL MEAN					39.1	1999
LOWEST ANNUAL MEAN					19.4	2001
HIGHEST DAILY MEAN	257	May 15	467	Jun 1	541	May 30 1999
LOWEST DAILY MEAN	2.5	Sep 11	2.6	Oct 1	2.5	Aug 23 2000
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 25	2.9	Oct 1	2.6	Aug 23 2000
MAXIMUM PEAK FLOW			565	Jun 1	824	May 24 1999
MAXIMUM PEAK STAGE			5.11	Jun 1	5.50	May 24 1999
ANNUAL RUNOFF (AC-FT)	13860		23270		20170	
10 PERCENT EXCEEDS	50		90		74	
50 PERCENT EXCEEDS	5.7		5.8		7.0	
90 PERCENT EXCEEDS	3.1		4.0		3.9	

e Estimated

BRUNEAU RIVER BASIN

13162225 JARBIDGE RIVER BELOW JARBIDGE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to May 2000, May 2002.

REMARKS.--In April 1998, station was was established in cooperation with the U.S. Forest Service to collect sediment data.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)
MAY													
20...	0836	252	--	--	--	--	--	--	--	--	--	--	--
20...	0842	249	22	.250	0	0	2	10	30	51	69	77	84
20...	1350	231	--	--	--	--	--	--	--	--	--	--	--
20...	1400	242	22	.250	0	0	4	17	36	56	75	87	90
21...	1435	169	--	--	--	--	--	--	--	--	--	--	--
21...	1440	169	22	.250	0	0	3	12	35	61	81	91	97

Date	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY				
20...	--	24	16.3	44
20...	100	--	--	--
20...	--	36	22.5	48
20...	100	--	--	--
21...	--	28	12.8	65
21...	100	--	--	--

OWYHEE RIVER BASIN

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'20", long 115°50'38", in NE $^1/_4$ NW $^1/_4$ sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank, 500 ft downstream from Wild Horse Dam, 0.1 mi upstream from Beaver Creek, 8 mi west of Gold Creek, and 12 mi southeast of Mountain City.

DRAINAGE AREA.--209 mi^2.

PERIOD OF RECORD.--April to October 1916, April 1917 to September 1925, October 1936 to current year.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft, Bureau of Reclamation datum. Prior to October 1, 1936, at site 0.3 mi upstream at different datum. November 17, 1936, to October 18, 1967, at site 0.1 mi upstream at different datum. October 19, 1967, to September 30, 1971, temporary gage, 250 ft downstream at different datum, while new dam was being constructed 300 ft downstream from old dam.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir (station 13174000), capacity, 71,660 acre-ft, 0.1 mi upstream beginning March 18, 1938.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,810 ft^3/s, May 5, 1922, gage height, 10.11 ft, site and datum then in use; no flow many days, some years, due to gate regulation on reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft^3/s, June 18-19, gage height, 2.26 ft; minimum daily, 0.10 ft^3/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.4	7.9	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	134	121	124	84
2	e4.4	6.0	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	133	111	123	83
3	e4.4	6.8	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	132	112	124	82
4	e4.4	6.7	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	131	112	124	84
5	e4.4	6.6	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	111	106	84
6	7.8	6.7	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	111	71	86
7	9.7	7.0	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	110	71	87
8	6.1	7.3	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	108	71	87
9	8.7	3.2	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	107	71	87
10	9.6	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	109	71	87
11	9.5	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	109	71	87
12	6.7	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	129	109	71	87
13	5.2	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	129	109	71	87
14	5.7	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	130	108	71	87
15	6.8	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	129	108	72	87
16	7.3	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	129	106	73	87
17	6.2	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	145	115	73	22
18	4.2	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	162	126	74	14
19	5.2	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	161	126	74	14
20	8.3	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	147	126	75	14
21	7.4	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	146	126	76	14
22	7.5	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	142	125	77	14
23	7.3	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	137	126	77	14
24	8.8	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	137	125	78	14
25	8.7	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	136	125	78	14
26	8.0	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	136	125	79	14
27	8.5	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	136	125	79	14
28	6.3	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	e0.10	136	125	79	14
29	7.4	e0.10	e0.10	e0.10	---	e0.10	e0.10	92	137	125	80	14
30	8.0	e0.10	e0.10	e0.10	---	e0.10	e0.10	138	136	123	81	14
31	7.8	---	e0.10	e0.10	---	e0.10	---	136	---	124	82	---
TOTAL	214.7	60.30	3.10	3.10	2.80	3.10	3.00	368.80	4080	3628	2547	1577
MEAN	6.926	2.010	0.100	0.100	0.100	0.100	0.100	11.90	136.0	117.0	82.16	52.57
MAX	9.7	7.9	0.10	0.10	0.10	0.10	0.10	138	162	126	124	87
MIN	4.2	0.10	0.10	0.10	0.10	0.10	0.10	0.10	129	106	71	14
AC-FT	426	120	6.1	6.1	5.6	6.1	6.0	732	8090	7200	5050	3130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2002, BY WATER YEAR (WY)

MEAN	11.94	4.352	3.473	4.259	7.078	13.88	83.42	123.7	89.03	78.47	71.14	36.17
MAX	73.0	15.3	46.9	45.7	146	130	549	794	321	404	164	104
(WY)	1976	1953	1976	1984	1972	1984	1943	1984	1984	1964	1985	1965
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.28	1.54	1.00	1.50
(WY)	1939	1939	1939	1939	1939	1940	1939	1941	1995	1992	1918	1937

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1916 - 2002	
ANNUAL TOTAL	10795.16		12490.90			
ANNUAL MEAN	29.58		34.22		43.52	
HIGHEST ANNUAL MEAN					161	1984
LOWEST ANNUAL MEAN					9.95	1992
HIGHEST DAILY MEAN	200	Jun 2	162	Jun 18	1470	May 5 1922
LOWEST DAILY MEAN	0.00	Jan 1	0.10	Nov 10	0.00	Mar 19 1938
ANNUAL SEVEN-DAY MINIMUM	0.01	Jan 1	0.10	Nov 10	0.00	Mar 19 1938
MAXIMUM PEAK FLOW			166	Jun 18	1810	May 5 1922
MAXIMUM PEAK STAGE			2.26	Jun 18	10.11	May 5 1922
ANNUAL RUNOFF (AC-FT)	21410		24780		31530	
10 PERCENT EXCEEDS	130		126		126	
50 PERCENT EXCEEDS	0.10		0.10		6.0	
90 PERCENT EXCEEDS	0.01		0.10		0.00	

e Estimated

OWYHEE RIVER BASIN

13175100 OWYHEE RIVER NEAR MOUNTAIN CITY, NV

LOCATION.--Lat 41°51'38", long 115°59'18", in SE $^1/_4$ NW $^1/_4$ sec.26, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, on left bank, 2.1 mi northwest of Mountain City.

DRAINAGE AREA.--391 mi^2.

PERIOD OF RECORD.--April 1991 to September 1995; May 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,560 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Wild Horse Reservoir (station 1317400), capacity, 71,660 acre-ft

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft^3/s, March 17, 1993, gage height, 9.81 ft; minimum daily, 0.42 ft^3/s, August 4, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 420 ft^3/s, April 15, gage height, 5.72 ft; minimum daily, 8.1 ft^3/s, October 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	16	e10	e12	e11	e18	228	295	232	165	143	74
2	9.1	16	e10	e12	e11	e17	251	296	285	137	146	73
3	9.0	15	e13	e12	e12	e15	232	270	241	132	145	73
4	8.9	15	e13	e11	e12	e15	236	271	220	129	142	73
5	8.7	15	e12	e10	e12	e15	274	277	207	127	143	74
6	9.2	15	e10	e14	e15	e15	301	281	198	127	83	76
7	8.9	15	e13	e21	e17	e26	292	286	195	128	68	81
8	9.3	15	e13	e27	e19	e18	259	241	189	124	66	78
9	9.3	15	e13	e19	e17	e23	254	208	195	124	68	76
10	9.1	13	e13	e20	e15	e20	266	185	200	122	68	77
11	8.8	10	e11	e25	e16	30	258	160	189	123	67	78
12	8.6	9.8	e12	e20	e17	60	268	135	174	124	64	78
13	8.1	9.7	e12	e14	e16	63	293	132	165	121	63	77
14	8.4	9.5	e13	e15	e18	44	339	134	151	121	60	77
15	8.9	9.5	e14	e15	e16	37	381	129	139	122	59	76
16	9.4	9.5	e14	e13	e18	35	291	130	138	122	60	77
17	9.7	9.5	e13	e15	e20	33	249	118	138	122	61	77
18	9.7	9.6	e12	e17	e19	30	214	127	185	151	e61	44
19	10	9.1	e12	e14	e17	30	199	130	201	147	64	30
20	12	9.4	e12	e12	e20	36	186	134	201	147	65	26
21	12	9.5	e12	e14	e22	61	180	166	208	148	67	22
22	12	18	e10	e15	e23	96	178	173	201	150	67	19
23	12	16	e10	e17	e25	95	184	142	193	149	68	19
24	12	12	e10	e16	e24	73	183	121	182	148	71	19
25	12	13	e10	e15	e23	62	188	108	180	140	69	18
26	12	13	e10	e14	e21	69	215	100	183	121	70	18
27	12	e13	e10	e14	e20	110	226	90	193	134	71	18
28	13	e11	e10	e13	e20	150	208	82	187	139	71	18
29	14	e10	e10	e12	---	168	202	100	178	140	71	19
30	16	e10	e10	e12	---	172	220	209	174	138	75	19
31	17	---	e12	e11	---	195	---	224	---	142	75	---
TOTAL	328.5	371.1	359	471	496	1831	7255	5454	5722	4164	2471	1584
MEAN	10.60	12.37	11.58	15.19	17.71	59.06	241.8	175.9	190.7	134.3	79.71	52.80
MAX	17	18	14	27	25	195	381	296	285	165	146	81
MIN	8.1	9.1	10	10	11	15	178	82	138	121	59	18
AC-FT	652	736	712	934	984	3630	14390	10820	11350	8260	4900	3140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

MEAN	21.63	20.52	21.19	21.68	32.82	115.8	173.7	262.3	169.2	94.87	75.45	47.48
MAX	48.1	31.5	33.9	39.9	113	364	295	617	327	142	127	95.5
(WY)	1999	1995	1999	1995	1995	1993	1993	1998	1998	1998	1999	1998
MIN	7.49	12.4	11.6	7.96	14.0	32.9	35.0	62.2	27.2	2.06	2.72	5.07
(WY)	1993	2002	2002	2001	1998	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1991 - 2002	
ANNUAL TOTAL	21024.4		30506.6			
ANNUAL MEAN	57.60		83.58		89.32	
HIGHEST ANNUAL MEAN					143	1998
LOWEST ANNUAL MEAN					21.7	1992
HIGHEST DAILY MEAN	238	Jun 12	381	Apr 15	1260	Mar 18 1993
LOWEST DAILY MEAN	7.5	Jan 28	8.1	Oct 13	0.42	Aug 4 1992
ANNUAL SEVEN-DAY MINIMUM	7.5	Jan 25	8.7	Oct 9	0.72	Jul 29 1992
MAXIMUM PEAK FLOW			420	Apr 15	1850	Mar 17 1993
MAXIMUM PEAK STAGE			5.72	Apr 15	9.81	Mar 17 1993
ANNUAL RUNOFF (AC-FT)	41700		60510		64710	
10 PERCENT EXCEEDS	164		208		209	
50 PERCENT EXCEEDS	24		59		42	
90 PERCENT EXCEEDS	8.9		10		12	

e Estimated

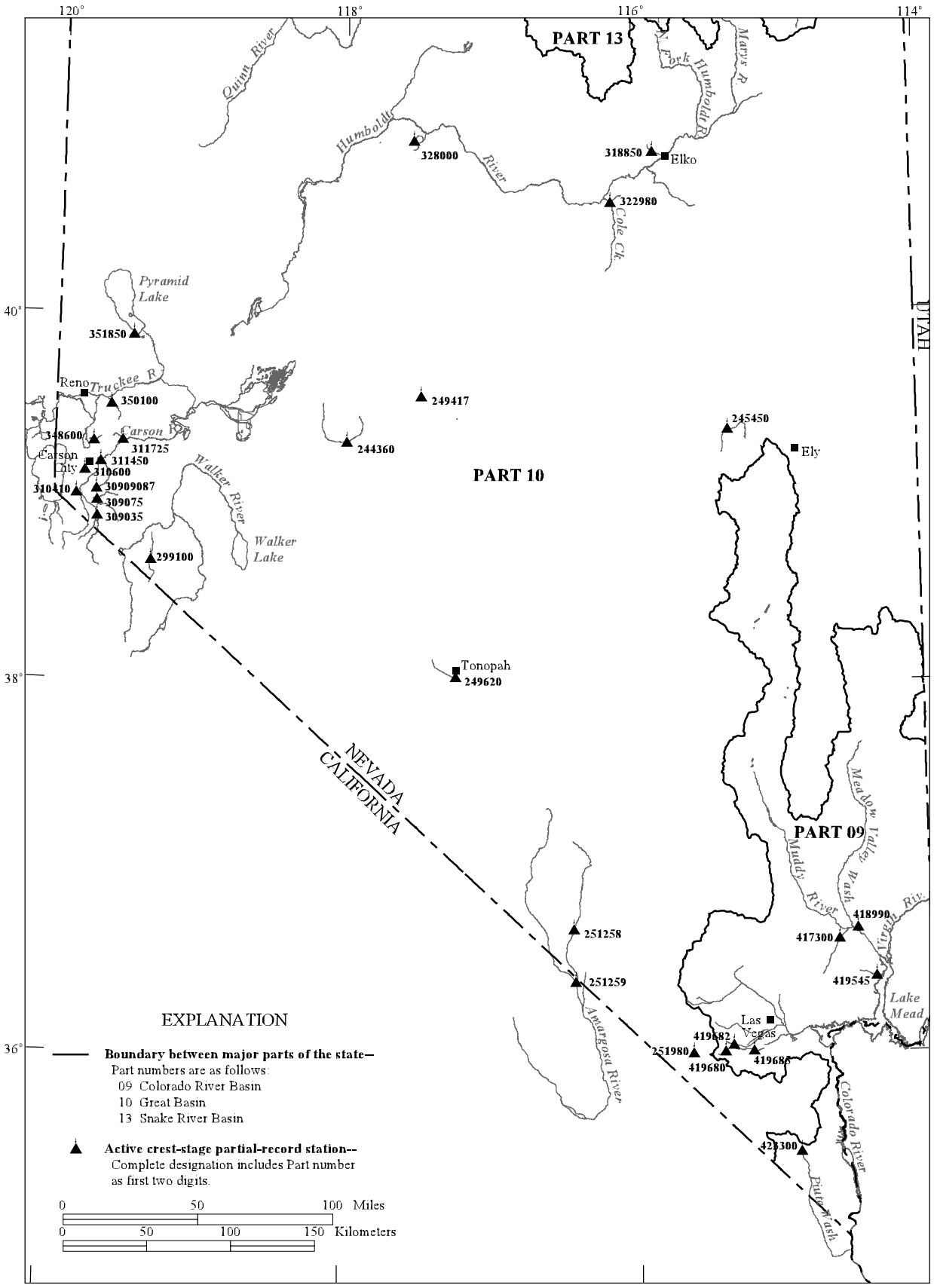


Figure 28. Crest-stage partial-record stations listed in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharges at crest-stage stations during water year 2002. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figure 28

Station Name and Number	Location and Drainage Area	Period of Record (water year)	2002 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft^3/s)	Date	Gage Height (feet)	Discharge (ft^3/s)
		Colorado River Basin						
California Wash near Moapa, NV (09417300)	Lat 36°36'37", long 114°39'37", in $SE^1/_4SE^1/_4$ sec.24, T.12 S., R.65 E., Clark County, Hydrologic Unit 15010012, 1.6 mi northwest of Byron Interchange on Interstate Highway 15. Drainage area is about 35 mi^2.	1981, 1987-2002	--	--	*	8-10-81	--	30,600
Weiser Wash near Glendale, NV (09418990)	Lat 36°40'05", long 114°31'10", in $SW^1/_4SE^1/_4$ sec.31, T.14 S., R.67 E., Clark County, Hydrologic Unit 15010012, at culvert on Interstate Highway 15, about 2 mi east of Glendale at milemarker 93. Drainage area is 43 mi^2.	1966-81, 1984, 1990, 1998, 1999-2002	--	--	*	8-29-00	21.02	6,100
Valley of Fire Wash near Overton, NV (09419545)	Lat 36°24'18", long 114°25'05", in $SE^1/_4SW^1/_4$ sec.32, T.17 S., R.68 E., Clark County, Hydrologic Unit 15010005, on Northshore Road, 1.1 mi west of Fire Bay. Drainage area is about 28 mi^2.	1984, 1987-2002	07-17-02	44.57	315	8-10-81	--	20,800
Cottonwood Valley near Blue Diamond, NV (09419680)	Lat 36°00'35", long 115°25'50", in $NE^1/_4NW^1/_4$ sec.25, T.22 S., R.58 E., Clark County, Hydrologic Unit 15010015, at culverts on Cottonwood Valley Road, 3 mi southwest of Blue Diamond. Drainage area is 18.3 mi^2.	1961-2002	--	--	*	1-25-69	8.53	1,100
Oak Creek Wash near Blue Diamond, NV (09419682)	Lat 36°02'41", long 115°22'38", in $SW^1/_4SW^1/_4$ sec.9, T.22 S., R.59 E., Clark County, Hydrologic Unit 15010015, on Blue Diamond Boulevard, 1.4 mi east of Blue Diamond. Drainage area is 27.5 mi^2.	1969, 1987-2002	--	--	*	1-25-69	--	4,950
Bird Spring Wash near Arden, NV (09419685)	Lat 36°00'44", long 115°14'33", in $NW^1/_4NW^1/_4$ sec.26, T.22 S., R.60 E., Clark County, Hydrologic Unit 15010015, 0.5 mile southwest of Arden. Drainage area is 3.61 mi^2.	1987-2002	--	--	E1.0	7-08-99	44.38	40
Gypsum Wash at Northshore Rd nr Las Vegas Bay, NV (09419910)	Lat 36°08'42", long 114°51'53", in $SW^1/_4NE^1/_4$ sec.7, T.21 S., R.64 E., Clark County, Hydrologic Unit 15030005, 1.4 mile east of Lake Mead Blvd. on Northshore Rd. Drainage area is 100.8 mi^2.	1984, 1998, 2000-02	--	--	*	9-11-98	100.17	17,000
Piute Wash tributary near Searchlight, NV (09423300)	Lat 35°28'00", long 114°56'20", in $SE^1/_4NE^1/_4$ sec.33, T.28 S., R.63 E., Clark County, Hydrologic Unit 15030102, at culvert on State Highway 164, 1.1 mile west of Searchlight, NV. Drainage area is approximately 3.4 mi^2.	1967-82, 1984, 1987-90, 1998-2002	10-07-01	4.24	E16	9-11-98	E21	600

CREST-STAGE PARTIAL-RECORD STATIONS-Continued

Station Name and Number	Location and Drainage Area	Period of Record (water year)	2002 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft^3/s)	Date	Gage Height (feet)	Discharge (ft^3/s)
Central Region								
Dixie Valley tributary near Eastgate, NV (10244360)	Lat 39°17'30", long 117°59'00", in $SE^1/_4$ sec.36, T.17 N., R.35 E., Churchill County, Hydrologic Unit 16060001, at culvert on U.S. Highway 50, and 6 mi west of Eastgate. Drainage area is approximately 11 mi^2.	1961-2002	07-29-02	3.85	0.14	8-61	15.00	1,480
Illipah Creek near Hamilton, NV (10245445)	Lat 39°19'07", long 115°23'39", in $NE^1/_4NW^1/_4$ sec.25, T.16 S., R.58 E., White Pine County, Hydrologic Unit 16060007, in Humboldt National Forest, 6.7 mi northeast of Hamilton. Drainage area is 31.5 mi^2.	1983-87+, 1999-2002	02-07-02 03-20-02	1.84 1.23	12 1.0	8-22-84	6.05	446
Smith Creek Valley tributary near Austin, NV (10249417)	Lat 39°32'21", long 117°28'26", in $NE^1/_4SE^1/_4$ sec.4, T.19 N., R.40 E., Lander County, Hydrologic Unit 16060002, at culvert on U.S. Highway 50, and 22 mi west of Austin. Drainage area is approximately 0.62 mi^2.	1968-79, 1981-82, 1984, 1988, 1993-2002	--	--	*	7-84	--	130
Big Smokey Valley tributary near Tonopah, NV (10249620)	Lat 38°01'52", long 117°13'52", in $SW^1/_4NE^1/_4$ sec.14, T.2 N.,R.42 E., Esmeralda County, Hydrologic Unit 16060003, at culvert on U.S. Highway 95, and 2.5 mi south of Tonopah. Drainage area is approximately 2.39 mi^2.	1961-81, 1988-89, 1999-2000	--	--	*	1961	--	10
Lovell Wash near Blue Diamond, NV (10251980)	Lat 36°00'10", long 115°38'38", in $NE^1/_4SW^1/_4$ sec.25, T.22 S., R.56 E. Clark County, Hydrologic Unit 16060015, 13.7 mi west of Blue Diamond and 24 mi southeast of Pahrump. Drainage area is 52.8 mi^2.	1966-68, 1969-77+, 1978-81, 1987, 1999-2002	--	--	*	1-25-69	6.90	4,150
Amargosa River Basin								
Fortymile Wash near Amargosa Valley, NV (10251258)	Lat 36°40'18", long 116°26'03", in $SW^1/_4SW^1/_4$ sec.2, T.15 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test site, on left bank, 3 mi northwest of intersection of US Highway 95 and State Highway 373. Drainage area is 316 mi^2.	1969, 1983-97+, 1998-2002	--	--	*	7-22-84	7.10	1,430
Amargosa River at Highway 127 near CA-NV Stateline, CA (10251259)	Lat 36°23'12", long 116°25'22", in $SW^1/_4SE^1/_4$ sec.5, T.26 S., R.5 E., Inyo County, Hydrologic Unit 18090202, on right bank 75 feet upstream from State Highway 127, 1.6 mi south of California-Nevada Stateline. Drainage area is 1,542 mi^2.	1993, 1994-95+, 1998, 2000-02	07/17/02	*18.64	28	7-6-01	20.27	470

CREST-STAGE PARTIAL-RECORD STATIONS-Continued

Station Name and Number	Location and Drainage Area	Period of Record (water year)	2002 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft^3/s)	Date	Gage Height (feet)	Discharge (ft^3/s)
Walker River Basin								
Desert Creek near Wellington, NV (10299100)	Lat 38°38'55", long 119°19'30", in $SW^1/_4SW^1/_4$ sec.8, T.9 S., R.24 E., Lyon County, Hydrologic Unit 16050302, 30 ft above diversion structure, 8 mi southeast of Wellington. Drainage area is 50.4 mi^2.	1964-80, 1997, 1999-2002	10-02-01 04-02-02 05-07-02 05-28-02 09-24-02	2.11 2.27 2.38 2.29 2.05	2.2 6.0 8.9 12.5 1.9	6-05-99	3.06	262
Carson River Basin								
Indian Creek above Mouth near Gardnerville, NV (10309035)	Lat 38°52'45", long 119°42'04", in $NW^1/_4NE^1/_4$ sec.26, T.12 N., R.20 E., Douglas County, Hydrologic Unit 16050201, 0.75 mi above confluence with East Fork Carson River, and 5.0 mi south of Gardnerville. Drainage area is 25.4 mi^2.	1994-98+, 1999-2002	11-07-01 04-05-02 05-16-02 07-31-02	0.40 0.59 0.94 0.54	0.20 1.5 6.0 0.07	3-10-95	7.13	1,800
Buckeye Wash at East Valley Road near Minden, NV (10309075)	Lat 38°57'53", long 119°42'13", in $SW^1/_4NE^1/_4$ sec.26, T.13 N., R.20 E., Douglas County, at culvert on East Valley Road 2.9 mi NE of Gardnerville. Hydrologic Unit 16050201. Drainage area is 73.8 mi^2.	1992, 1994-95, 1997-2002	--	--	*	7-14-92	--	E3,000
Johnson Wash at Fremont Drive near Minden, NV (1030909087)	Lat 39°01'31", long 119°42'13", in $NE^1/_4NW^1/_4$ sec.2, T.13 N., R.20 E., Douglas County, at culvert on Fremont Drive 6 mi NE of Gardnerville. Hydrologic Unit 16050201. Drainage area is 10.4 mi^2.	1991-97, 1999-2002	--	--	*	7-22-94	--	E1,400
Genoa Canyon Creek at Genoa, NV (10310410)	Lat 39°00'02", long 119°51'00", in $SE^1/_4SW^1/_4$ sec.9, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.5 mi southwest of Genoa. Drainage area is 2.24 mi^2.	1997, 2000-02	10-23-01 04-02-02 09-26-02	9.98 10.05 9.93	1.1 2.1 0.69	1-01-97	--	E150
Voltaire Canyon Creek at Carson City, NV (10310600)	Lat 39°07'29", long 119°47'21", in $NE^1/_4NE^1/_4$ sec.36, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 1.2 miles west of Highway 395 at Carson City. Drainage area is about 1 mi^2.	1979, 1980, 1982, 1986, 1997, 2000-02	--	--	*	1-02-97	--	118
Brunswick Canyon near New Empire, NV (10311450)	Lat 39°10'20", long 119°41'10", in $NW^1/_4NE^1/_4$ sec.13, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050202, 0.3 mile upstream from mouth, and 2.5 mi east of New Empire. Drainage area is 12.7 mi^2.	1966-78, 1980-2002	--	--	*	3-11-95	5.02	245
Sixmile Canyon Creek at Hwy 50 near Dayton, NV (10311725)	Lat 39°17'22", long 119°32'16", in $SE^1/_4SW^1/_4$ sec.32, T.17 N., R.22 E., Lyon County, Hydrologic Unit 16050202, about 4.9 mi east of Dayton. Drainage area is 17.29 mi^2.	1986, 1995, 1998-2002	07-18-02	9.56	E3.0	2-19-86	--	500

CREST-STAGE PARTIAL-RECORD STATIONS-Continued

Station Name and Number	Location and Drainage Area	Period of Record (water year)	2002 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft^3/s)	Date	Gage Height (feet)	Discharge (ft^3/s)
Humboldt River Basin								
East Adobe Creek near Elko, NV (10318850)	Lat 40°51'27", long 115°51'13", in $SE^1/_4SE^1/_4$ sec.2, T.34 N., R.54 E., Elko County, Hydrologic Unit 16040101, at culvert on State Highway 225, 2.0 mi northwest of Elko. Drainage area is 6.0 mi^2.	1971, 1999-2002	04-08-02	9.88	1.5	7-27-71	--	71
Cole Creek near Palisade, NV (10322980)	Lat 40°35'05", long 116°08'55", in $SE^1/_4NE^1/_4$ sec.7, T.31 N., R.52 E., Eureka County, Hydrologic Unit 16040104, at culvert on State Highway 278, 3.2 mi southeast of Palisade. Drainage area is 11.4 mi^2.	1962-83, 1985-2002	08-14-02	1.59	#0.38	6-83	3.80	1,090
Pole Creek near Golconda, NV (10328000)	Lat 40°54'59", long 117°31'49", in $N^1/_4NE^1/_4$ sec.13, T.35 N., R.39 E., Humboldt County, Hydrologic Unit 16040108, 2.0 mi upstream from Devils Canyon, 3 mi southwest of interstate 80 and 4 mi southwest of Golconda. Drainage area is 10.7 mi^2.	1960-73+, 1999-2002	04-12-02 05-20-02	9.67 10.02	10.2 #22	8-5-61	--	E4,000
Pyramid and Winnemucca Lakes Basin								
Jumbo Wash near New Washoe City, NV (10348600)	Lat 39°16'58", long 119°44'16", in $SW^1/_4NE^1/_4$ sec.04, T.16N., R.20 E., Washoe County, Hydrologic Unit 16050102, 2 mi southeast of New Washoe City. Drainage area is 4.9 mi^2.	1986, 1991, 1999-2002	01-07-02 01-31-02 03-14-02 05-07-02 06-04-02	7.84 7.94 7.82 7.82 7.77	0.25 0.19 0.23 0.17 0.12	7-22-86	--	1,230
Long Valley Canyon Creek near Lockwood, NV (10350100)	Lat 39°30'04", long 119°38'42", in $NW^1/_4$ $NW^1/_4$ sec.21, T.19N., R.21E., Storey County, Hydrologic Unit 16050103, 0.75 mi south of U.S. Interstate 80. Drainage area is approximately 82 mi^2.	1956, 1967-78, 1986, 1995-2002	03-18-02 05-01-02	-- --	E<.1 0.05	2-19-86	97.54	5,400
Pyramid Lake tributary near Nixon, NV (10351850)	Lat 39°51'30", long 119°28'32", in $SW^1/_4SE^1/_4$ sec.14, T.23 N., R.22 E., Washoe County, Hydrologic Unit 16050103, at bridge on former Southern Pacific Railroad right-of-way, 6.5 mi west of Nixon. Drainage area is 1.94 mi^2.	1968-79, 1981-90, 1992-2002	--	--	*	2-19-86	3.87	E950

E Estimated
* No evidence of any flow during the water year
+ Operated as a continuous recording station
# Flow determined from rating curve

MISCELLANEOUS SITES

The following table contains discharge data for the sites that were measured during the water year.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements				
				Date	Discharge (ft^3/s)	Water Temperature	Specific Conductance	pH
Walker River Basin								
By Day Creek near Bridgeport, CA (10291750)	Buckeye Creek	Lat 38°16'08", long 119°18'10", in NW¼NW¼ sec.26, T.5 N., R.24 E., Mono County, Hydrologic Unit 16050301, about 1 mi southwest of Bridgeport Ranger Station, and about 4 mi northwest of Bridgeport.	1995-2002	10-16-01	.22			
				11-30-01	.26			
				01-09-02	.35			
				02-20-02	.37			
				04-03-02	1.0			
				05-15-02	1.1			
				06-26-02	.32			
				07-30-02	.06			
				09-17-02	.08			
Murphy Creek above East Walker River near Bridgeport, CA (10293015)	East Walker River	Lat 38°22'19", long 119°11'50", in NW¼SE¼ sec.14, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, 3.5 mi north of Bridgeport Reservoir Dam, and about 8 mi north of Bridgeport.	1995-2002	10-16-01	.60			
				11-29-01	1.1			
				01-09-02	1.2			
				02-19-02	1.1			
				04-04-02	2.1			
				05-15-02	2.0			
				06-25-02	.92			
				07-30-02	.41			
				09-18-02	.27			
Mill Canyon Creek above Lost Cannon Creek near Walker, CA (10296580)	West Walker River	Lat 38°29'12", long 119°29'01", in SE¼NE¼ sec.6, T.7 N., R23 E., Mono County, Hydrologic Unit 16050302, in Mill Canyon, about 0.5 mi upstream from Lost Cannon Creek, and about 2 mi southwest of Walker.	1995-2002	10-16-01	.79			
				11-27-01	.60			
				01-08-02	1.2			
				02-19-02	.95			
				04-02-02	2.4			
				05-14-02	3.1			
				07-01-02	.62			
				08-02-02	.67			
				09-16-02	.20			
Walker River at East Bridge Street near Yerington, NV (10301100)	Walker Lake	Lat 38°58'58", long 119°10'52", in NE¼NE¼ sec.21, T.13 N., R.25 E., Lyon County, Hydrologic Unit 16050303, at Bridge Street, 0.8 mi west of Yerington.	1995-2002	11-08-01	50			
				12-18-01	51			
				01-29-02	50			
				03-15-02	104			
				04-24-02	204			
				06-05-02	267			
				07-16-02	105			
				08-26-02	87			
Walker River at Point Site below Weber Reservoir near Schurz, NV (10301720)	Walker Lake	Lat 39°02'02", long 118°51'41", in SW¼NW¼ sec.33, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 0.6 mi south of Weber Reservoir, and 6.3 mi northwest of Schurz.	1994-2002	10-03-01	.44			
				11-08-01	.13			
				04-30-02	68			
				05-14-02	44			
				05-29-02	71			
				06-12-02	28			
				06-25-02	1.5			
				07-09-02	54			
				07-24-02	5.1			
				08-08-02	.66			
				08-19-02	.41			
				09-04-02	21			
				09-17-02	.43			
Walker River at Powerline Crossing near Schurz, NV (10302005)	Walker Lake	Lat 38°53'41", long 118°46'54", in NW¼NE¼ sec.19, T.12 N., R.29 E., Mineral County, Hydrologic Unit 16050303, 0.9 mi east of U.S. Highway 95, and 4.3 mi southeast of Schurz.	1994-2002	10-04-01	.13		576	7.8
				11-05-01	.40	23.0	543	7.5
				05-02-02	.23	20.5	579	7.9
				05-13-02	.13	25.0	578	8.0
				05-31-02	.07	21.5	606	8.0
				06-12-02	.04	26.5	568	7.2
				06-26-02	.02	31.0	592	7.3
				07-10-02	.02	26.0	601	6.9
				07-24-02	.01	28.0	684	7.2
				08-20-02	.01	29.0	781	7.4
Walker River near mouth at Walker Lake, NV (10302025)	Walker Lake	Lat 38°47'28", long 118°43'34", in SE¼SE¼ sec.29, T.11 N., R.29 E., Mineral County, Hydrologic Unit 16050303, 1.5 mi southeast of Pelican Point, and about 10 mi northeast of Walker Lake.	1994-2002	11-05-01	.12	21.0	1310	8.3
				05-01-02	1.4	18.0	1290	8.9
				05-13-02	.79	32.0	1410	8.7
				05-30-02	.11	38.0	1460	8.8

MISCELLANEOUS SITES

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft^3/s)
Carson River Basin					
Aspen Creek above Leviathan Creek, near Markleeville, CA (103087898)	East Fork Carson River	Lat 38°42'02", long 119°39'30", in NE 1/4 NW 1/4 sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 3.2 mi north of Highway 89 and 6.5 mi east of Markleeville	1999-2002	10-29-01 11-30-01 12-18-01 01-24-02 02-28-02 03-19-02 04-02-02 04-29-02 05-28-02 06-27-02 07-26-02 08-27-02 09-30-02	0.18 .23 e.27 .30 .25 .40 .74 .37 .33 .11 .12 .13 .10
Jobs Canyon Creek near Minden, NV (10310360)	West Fork Carson River	Lat 38°53'26", long 119°50'20", in $SW^1/_4NW^1/_4$ sec.22, T.12 N. R.19 E., Douglas County, Hydrologic Unit 16050201, 3.6 mi southwest of Centerville. Drainage area is 2.97 mi^2.	1976, 1981-83, 1989-2002	05-03-02 08-09-02 09-30-02	1.3 1.3 1.2
Stutler Canyon Creek near Minden, NV (10310375)	West Fork Carson River	Lat 38°54'35", long 119°50'32", in $NW^1/_4NW^1/_4$ sec.15, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 5.3 mi southwest of Minden.	1997-2002	05-03-02 08-09-02 09-30-02	.39 .26 .38
Monument Creek near Minden, NV (10310380)	West Fork Carson River	Lat 38°55'03", long 119°50'44", in $NE^1/_4SE^1/_4$ sec.9, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, above diversion structure and 5.0 mi southwest of Minden.	1997-2002	05-02-02 08-09-02 09-30-02	2.3 2.2 2.3
James Canyon Creek near Genoa, NV (10310425)	West Fork Carson River	Lat 39°03'07", long 119°50'25", in $NW^1/_4NE^1/_4$ sec.27, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 3.3 mi north of Genoa.	1997-2002	05-02-02 08-08-02 09-30-02	.76 .31 .34
Water Canyon near Genoa, NV (10310430)	Carson River	Lat 39°04'17", long 119°50'52", in $SW^1/_4SE^1/_4$ sec.16, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 1.5 mi upstream from Foothill Road and about 4.5 mi north of Genoa.	1996-2002	05-03-02 08-08-02 09-30-02	1.6 .86 .93
Vicee Canyon Creek near Sagebrush Ranch near Carson City, NV (10311260)	Carson River	Lat 39°11'02", long 119°48'18", in $NW^1/_4NW^1/_4$ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 0.7 mi southwest of intersection of West Ormsby Boulevard and Combs Canyon Road.	1984-85 1989-97+ 1998-2002	11-26-01 01-07-02 02-11-02 04-01-02 05-17-02	.07 .06 .06 .15 .05
Carson River at Dayton, NV (10311700)	Carson River	Lat 39°14'16", long 119°35'14", in $NE^1/_4SE^1/_4$ sec.23, T.16 N., R.21 E., Lyon County, Hydrologic Unit 16050202, on left bank, 400 ft downstream of Dayton Valley Road bridge and 52.8 mi upstream from Lahontan Reservoir.	1994-97+, 1998, 2002	11-26-01 01-07-02 02-13-02 02-27-02 04-11-02 05-22-02 05-31-02 06-24-02 08-15-02	199 235 142 205 608 714 883 153 1.3
Pyramid and Winnemucca Lakes Basin					
McCrays Canyon near Carson City, NV (10348480)	Franktown Creek	Lat 39°12'13", long 119°52'48", in $SW^1/_4SW^1/_4$ sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050101, 0.5 mi upstream from mouth, and 6.5 mi northwest of Carson City.	1974-81, 1985-92, 1994-2002	10-09-01 04-22-02 07-22-02 08-29-02	.05 .09 .20 .09
Truckee River at Marble Bluff Dam, NV (10351775)	Truckee River	Lat 39°51'20", long 119°23'32", in $NW^1/_4NW^1/_4$ sec.22, T.23 N., R.23 E., Washoe County, Hydrologic Unit 16050101, in Pyramid Lake Indian Reservation, on right bank of inflow to Pyramid Lake, 9.42 mi downstream from Nixon gage, and 3 mi northwest of Nixon, NV.	1991-96, 2002	11-30-01 01-09-02	54 402

+ Operated as a continuous recording station
e Estimated

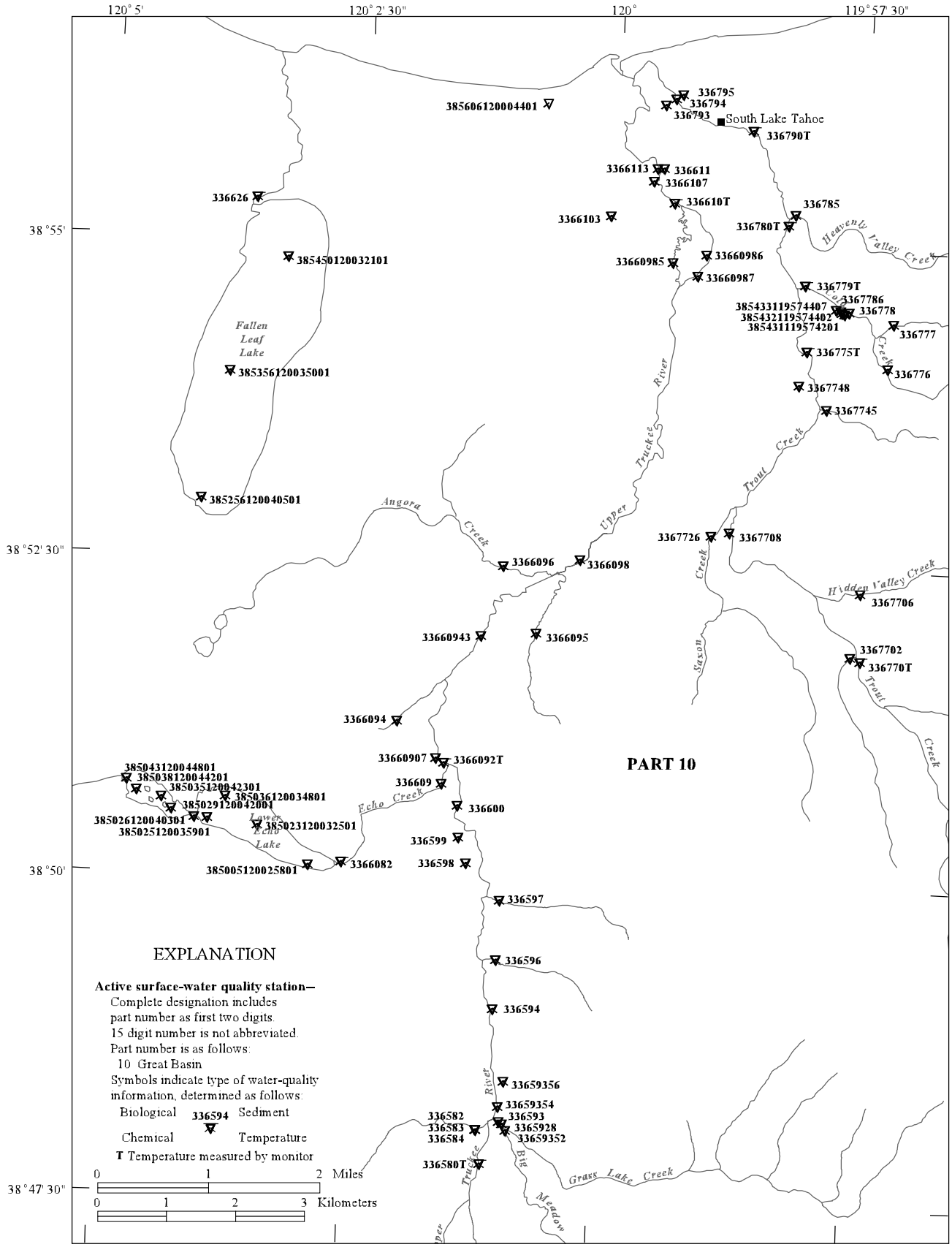


Figure 29. Surface-water quality stations, Upper Truckee River basin.

Miscellaneous sites were measured in cooperation with the Tahoe Regional Planning Agency to evaluate gains and losses of streamflow along the river, creek and selected tributaries. Locations of following sites are shown in figure 29.

WATER-QUALITY DATA, OCTOBER 2002

Station number	Station name	Date	Time	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
10336580	UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS CA	10-16-01	1116	1.3	54	7.0
10336582	BENWOOD MEADOWS TRIBUTARY SOUTH AT SOUTH UPPER TRUCKEE ROAD CA	10-16-01	1055	.0	--	--
10336583	BENWOOD MEADOWS TRIBUTARY MIDDLE AT UPPER TRUCKEE ROAD CA	10-16-01	1055	.0	--	--
10336584	BENWOOD MEADOWS TRIBUTARY NORTH AT SOUTH UPPER TRUCKEE ROAD CA	10-16-01	1055	.0	--	--
103365928	GRASS LAKE DIVERSION AT GRASS LAKE ROAD NEAR MYERS CA	10-16-01	1153	.33	96	7.0
10336593	GRASS LAKE CREEK NEAR MEYERS CA	10-16-01	1057	.28	93	6.5
1033659352	BIG MEADOW CREEK AT MOUTH NEAR GRASS LAKE ROAD CA	10-16-01	1218	.0	--	--
1033659354	UPPER TRUCKEE RIVER SOUTH TRIBUTARY AT GRASS LAKE ROAD CA	10-16-01	1022	.11	94	6.5
1033659356	UPPER TRUCKEE RIVER NORTH TRIBUTARY AT GRASS LAKE ROAD CA	10-16-01	1010	.0	--	--
10336594	UPPER TRUCKEE RIVER BELOW GRASS LAKE CREEK NEAR MEYERS CA	10-16-01	0920	2.2	81	6.5
10336596	UPPER TRUCKEE RIVER TRIBUTARY AT HIGHWAY 89 SOUTH OF SANTA CLAUS DRIVE	10-16-01	0840	.0	--	--
10336597	UPPER TRUCKEE RIVER TRIBUTARY AT HIGHWAY 89 NORTH OF SANTA CLAUS DRIVE	10-16-01	0837	.0	--	--
10336598	UPPER TRUCKEE RIVER TRIBUTARY CELIO RANCH AT SOUTH UPPER TRUCKEE ROAD	10-16-01	1039	.0	--	--
10336599	UPPER TRUCKEE RIVER TRIBUTARY NEAR KEKIN STREET AT SOUTH UPPER TRUCKEE ROAD CA	10-16-01	1035	.0	--	--
10336600	UPPER TRUCKEE RIVER NEAR MEYERS CALIF	10-16-01	0948	2.2	103	7.0
10336609	ECHO CREEK NEAR MEYERS CALIF	10-16-01	0902	.14	128	6.0
1033660907	UPPER TRUCKEE RIVER TRIBUTARY US HIGHWAY 50 GAGE ABOVE MEYERS CA	10-16-01	1153	.01	153	9.0
103366092	UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS CA	10-16-01	1235	3.2	112	9.0
103366094	UPPER TRUCKEE RIVER TRIBUTARY AT NORTH UPPER TRUCKEE ROAD NEAR MYERS	10-16-01	1230	.0	--	--
1033660943	UPPER TRUCKEE RIVER ABOVE GOLF COURSE NEAR COUNTRY CLUB DR	10-16-01	1410	2.5	122	10.5
103366095	SANTE FE TRIBUTARY AT COUNTRY CLUB ROAD NEAR ARAPAHOE STREET CA	10-16-01	1353	.0	--	--
103366096	ANGORA CREEK NEAR SAWMILL ROAD NEAR MYERS CA	10-16-01	1216	.48	80	5.5
103366098	UPPER TRUCKEE RIVER AT HIGHWAY 50 BRIDGE BELOW MEYERS, CA	10-16-01	1402	3.4	117	10.5
1033660985	UPPER TRUCKEE RIVER BELOW SOUTH LAKE TAHOE AIRPORT WEST CHANNEL CA	10-16-01	1650	.0	--	--
1033660986	UPPER TRUCKEE RIVER MIDDLE CHANNEL BELOW SOUTH LAKE TAHOE AIRPORT	10-16-01	1600	1.0	119	11.0
1033660987	UPPER TRUCKEE RIVER BELOW SOUTH LAKE TAHOE AIRPORT EAST CHANNEL CA	10-16-01	1500	.86	117	11.5
10336610	UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE CALIF	10-16-01	1030	2.1	116	8.5
103366103	DUNLOP DRIVE DRAINAGE AT TAHOE ISLAND DRIVE NEAR SCHOOL CA	10-16-01	1030	.0	--	--
103366107	D STREET DRAINAGE AT SKY MEADOWS CA	10-16-01	1030	.0	--	--
10336611	UPPER TRUCKEE RIVER ABOVE MARSH EAST CHANNEL	10-16-01	0845	.0	--	--
103366113	UPPER TRUCKEE RIVER ABOVE MARSH WEST CHANNEL CA	10-16-01	0900	2.1	117	6.5
10336770	TROUT CREEK AT USFS ROAD 12N01 NEAR MEYERS CA	10-17-01	1345	3.4	59	5.5
103367702	TROUT CREEK TRIBUTARY BL GAGE A USFS ROAD 12N01 CA	10-17-01	1352	.34	56	6.5
103367706	HIDDEN VALLEY CREEK AT TRAIL CROSSING CA	10-17-01	1217	.19	58	6.5
103367708	TROUT CREEK ABOVE SAXON CREEK AT POWERLINE ROAD CA	10-17-01	0938	4.1	61	4.5
103367726	SAXON CREEK BELOW LANDFILL AT POWERLINE ROAD CA	10-17-01	1025	.51	73	4.5
103367745	TROUT CREEK TRIBUTARY NEAR COLUMBINE USFS ROAD 12N08 CA	10-17-01	0845	.04	96	3.5
103367748	TROUT CREEK TRIBUTARY PIONEER TRAIL SOUTH OF GOLDEN BEAR TRAIL CA	10-17-01	0815	.0	--	--
10336775	TROUT CREEKK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE CA	10-17-01	1120	4.5	62	6.0
10336776	COLD CREEK AT DEL NORTE DRIVE CA	10-17-01	1100	3.8	57	6.0
10336777	COLD CREEK TRIBUTARY AT DEL NORTE DRIVE CA	10-17-01	1045	.0	--	--
10336778	COLD CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE CA	10-17-01	0952	3.7	58	5.5
10336779	COLD CREEK AT MOUTH CA	10-17-01	1130	4.0	60	7.0
10336780	TROUT CREEK NEAR TAHOE VALLEY CA	10-17-01	0910	7.6	62	4.5
10336785	HEAVENLY VALLEY CREEK NEAR TAHOE VALLEY	10-17-01	1105	.0	--	--
10336790	TROUT CREEK AT SOUTH LAKE TAHOE CALIF	10-17-01	1010	6.1	62	7.0
10336793	TROUT CREEK NEAR MOUTH WEST NEAR BELLEVUE/ELDORADO AVENUE CA	10-17-01	0943	.0	--	--
10336794	TROUT CREEK NEAR MOUTH MIDDLE NEAR BELLEVUE/ELDORADO AVENUE	10-17-01	0942	.0	--	--
10336795	TROUT CREEK NEAR MOUTH EAST NEAR BELLEVUE/ELDORADO AVENUE CA	10-17-01	0853	5.6	61	7.0

GROUND WATER AND PROJECT RECORDS

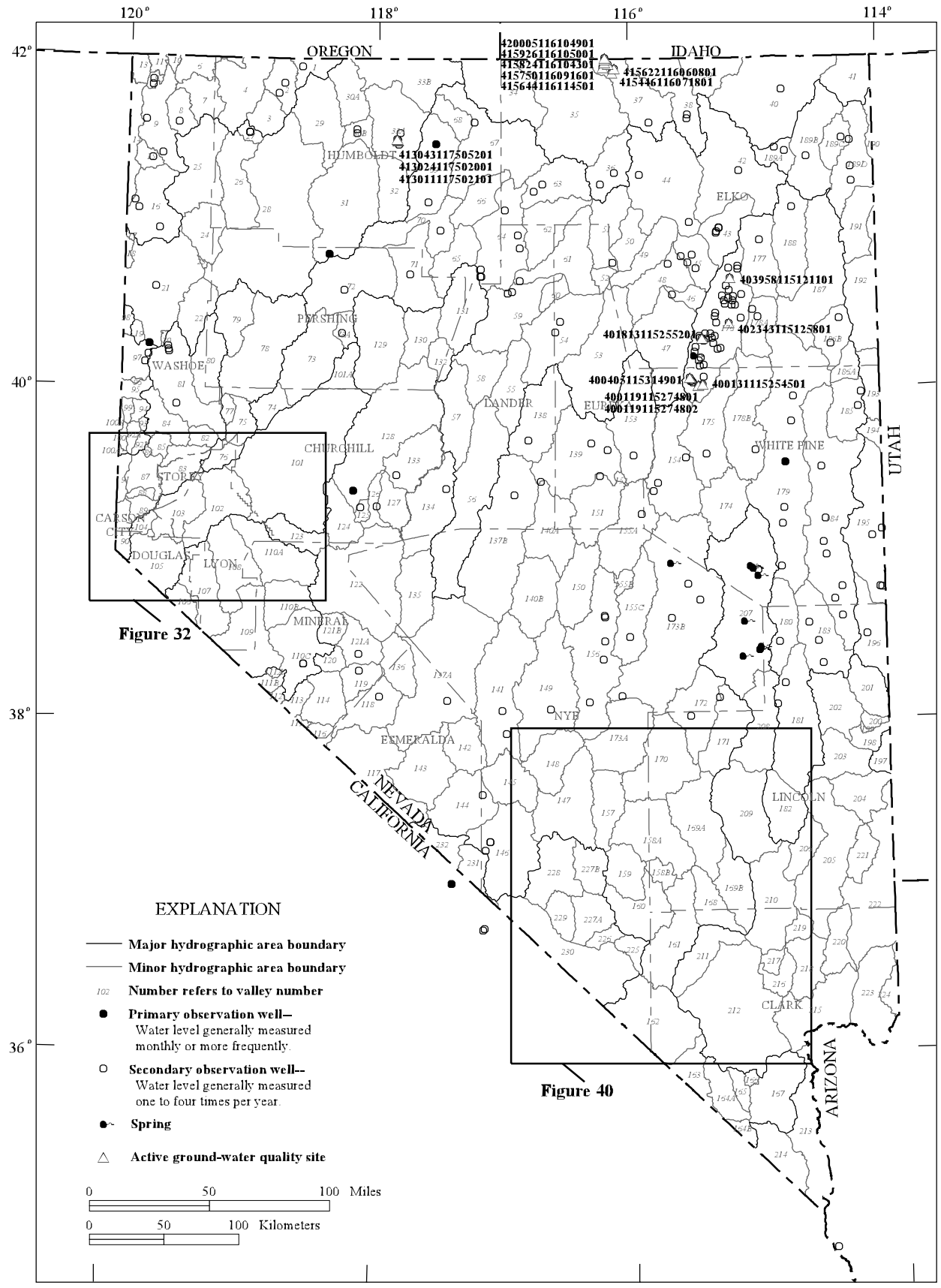


Figure 30. Ground-water sites listed in this report.

STATE OF NEVADA--HYDROGRAPHIC AREAS

1-NORTHWEST REGION

1. Pueblo V.
2. Continental Lake V.
3. Gridley Lake V.
4. Virgin V.
5. Sage Hen V.
6. Guano V.
7. Swan Lake V.
8. Massacre Lake V.
9. Long V.
10. Macy Flat
11. Coleman V.
12. Mosquito V.
13. Warner V.
14. Surprise V.
15. Boulder V.
16. Duck Lake V.

2-BLACK ROCK DESERT REGION

17. Pilgrim Flat
18. Painter Flat
19. Dry V.
20. Sano V.
21. Smoke Creek Desert
22. San Emidio Desert
23. Granite Basin
24. Hualapai Flat
25. High Rock Lake V.
26. Mud Meadow
27. Summit Lake V.
28. Black Rock Desert
29. Pine Forest V.
30. Kings River V.
    (A) Rio King Subarea
    (B) Sod House Subarea
31. Desert V.
32. Silver State V.
33. Quinn River V.
    (A) Orovada Subarea
    (B) McDermitt Subarea

3-SNAKE RIVER BASIN

34. Little Owyhee River Area
35. South Fork Owyhee River Area
36. Independence V.
37. Owyhee River Area
38. Bruneau River Area
39. Jarbidge River Area
40. Salmon Falls Creek Area
41. Goose Creek Area

4-HUMBOLDT RIVER BASIN

42. Marys River Area
43. Starr V. Area
44. North Fork Area
45. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek --
    Tenmile Creek Area
49. Elko Segment
50. Susie Creek Area
51. Maggie Creek Area
52. Marys Creek Area
53. Pine V.
54. Crescent V.
55. Carico Lake V.
56. Upper Reese River V.
57. Antelope V.
58. Middle Reese River V.
59. Lower Reese River V.
60. Whirlwind V.
61. Boulder Flat
62. Rock Creek V.
63. Willow Creek V.
64. Clovers Area
65. Pumpernickel V.
66. Kelly Creek Area
67. Little Humboldt V.
68. Hardscrabble Area
69. Paradise V.
70. Winnemucca Segment
71. Grass V.
72. Imlay Area
73. Lovelock V.
    (A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Fernley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V.
85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
    (A) Western Part
    (B) Eastern Part
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skedaddle Creek V.
99. Red Rock V.
100. Cold Spring V.
    (A) Long V.

8-CARSON RIVER BASIN

101. Carson Desert
    (A) Packard V.
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
    (A) Schurz Subarea
    (B) Lake Subarea
    (C) Whisky Flat --
    Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral).
    (A) Northern Part
    (B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
    (A) Eastern Part
    (B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
    (A) Tonopah Flat
    (B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
    (A) Northern Part
    (B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
    (A) Northern Part
    (B) Central Part
    (C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
    (A) Groom Lake V.
    (B) Papoose Lake V.
159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahrump V.
163. Mesquite V. (Sandy V.)
164. Ivanpah V.
    (A) Northern Part
    (B) Southern Part
165. Jean Lake V.
166. Hidden V. (South)
167. Eldorado V.
168. Three Lakes V. (Northern Part)
169. Tikapoo V. (Tickaboo V.)
    (A) Northern Part
    (B) Southern Part
170. Penoyer V. (Sand Spring V.)
171. Coal V.
172. Garden V.
173. Railroad V.
    (A) Southern Part
    (B) Northern Part
174. Jakes V.
175. Long V.
176. Ruby V.
177. Clover V.
178. Butte V.
    (A) Northern Part (Round V.)
    (B) Southern Part
179. Steptoe V.
180. Cave V.
181. Dry Lake V.
182. Delamar V.
183. Lake V.
184. Spring V.
185. Tippett V.
186. Antelope V. (White Pine & Elko)
    (A) Southern Part
    (B) Northern Part
187. Goshute V.
188. Independence V. (Pequop V.)

11-GREAT SALT LAKE BASIN

189. Thousand Springs V.
    (A) Herrill Siding--Brush Creek Area
    (B) Toano--Rock Spring Area
    (C) Rocky Butte Area
    (D) Montello--Crittenden Creek Area
    (Montello V.)
190. Grouse Creek V.
191. Pilot Creek V.
192. Great Salt Lake Desert
193. Deep Creek V.
194. Pleasant V.
195. Snake V.
196. Hamlin V.

12-ESCALANTE DESERT

197. Escalante Desert

13-COLORADO RIVER BASIN

198. Dry V.
199. Rose V.
200. Eagle V.
201. Spring V.
202. Patterson V.
203. Panaca V.
204. Clover V.
205. Lower Meadow Valley Wash
206. Kane Springs V.
207. White River V.
208. Pahroc V.
209. Pahranagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado V.
214. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

*Noncontributing part of the
Colorado River Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
    (A) Jackass Flats
    (B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

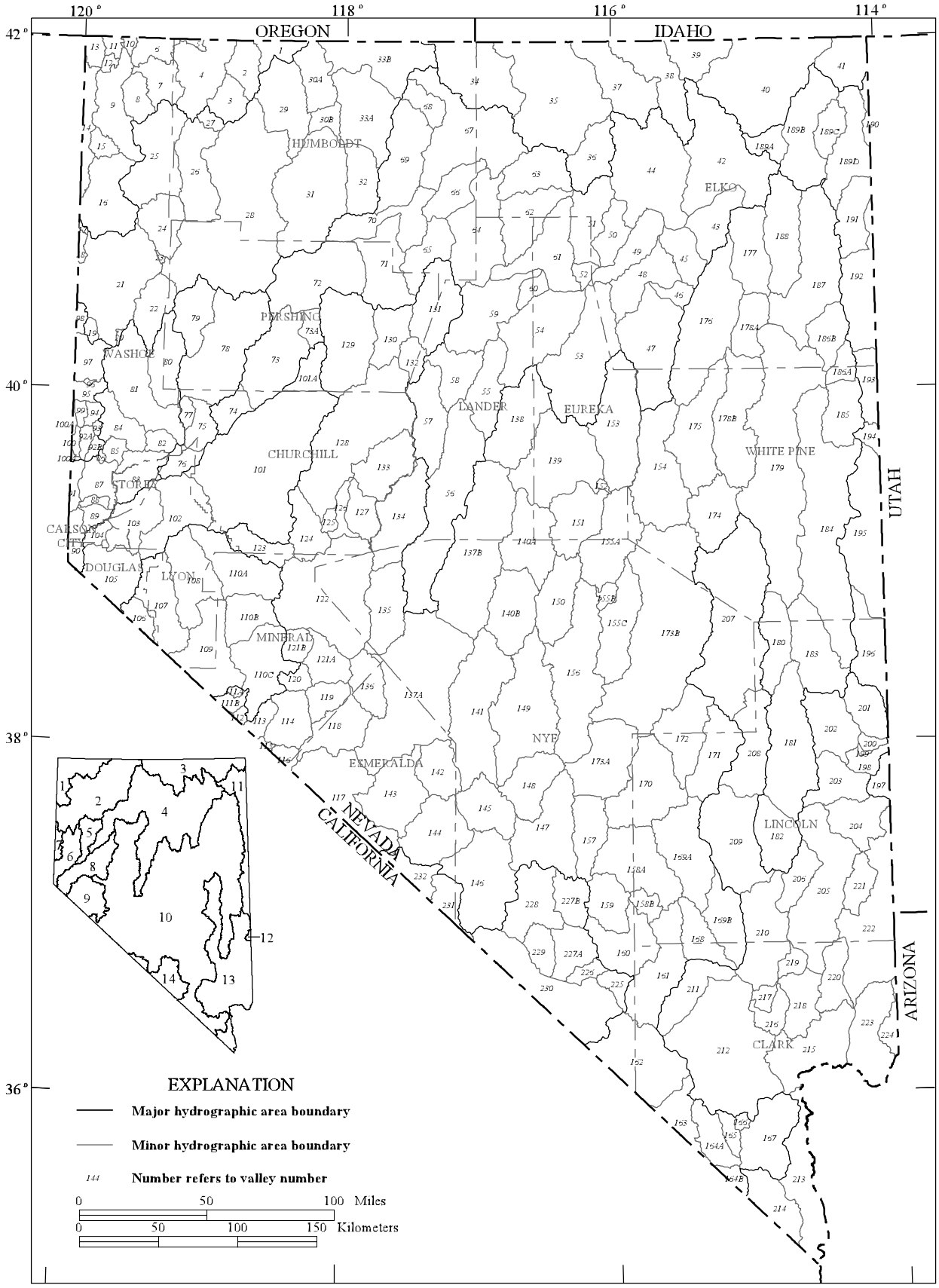


Figure 31. State of Nevada hydrographic areas.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

DESERT VALLEY

404901118223601. Local number, 31 N34 E22 16ABDC1.

LOCATION.--Lat 40°49'43", long 118°22'36", Hydrologic Unit 16040201, in Pershing County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water level recorder March 1999 to current year.

DATUM.--Elevation of land-surface datum is 4,210 ft. above NGVD of 1929 from topographic map. Measuring point: Top of north edge of casing, 0.0 ft above land-surface datum.

REMARKS.--Haystack Butte well.

PERIOD OF RECORD.--1990, 1991, January 1999 to February 1999 intermittent, March 1999 to August 1999, every three hours; August 1999 to February 2000, every two hours; March 2000 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.20 ft below land-surface datum, November 11, 1990; lowest recorded, 119.38 ft below land-surface datum, September 30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119.31	119.35	---	119.38	119.41	119.41	119.38	119.36	119.33	119.31	119.31	119.38
2	119.32	119.36	---	119.38	119.41	119.42	119.38	119.35	119.33	119.30	119.31	119.37
3	119.31	119.36	---	119.41	119.42	119.40	119.38	119.36	119.33	119.30	119.32	119.38
4	119.31	119.35	---	119.38	119.41	119.38	119.38	119.34	119.33	119.31	119.33	119.39
5	119.31	119.35	---	119.39	119.40	119.39	119.38	119.34	119.32	119.31	119.32	119.38
6	119.32	119.37	---	119.39	119.40	119.38	119.38	119.33	119.31	119.31	119.33	119.39
7	119.32	119.39	---	119.37	119.40	119.41	119.39	119.36	119.32	119.32	119.34	119.40
8	119.33	119.36	---	119.38	119.46	119.43	119.38	119.33	119.33	119.33	119.33	119.40
9	119.33	119.35	---	119.40	119.42	119.39	119.39	119.33	119.33	119.30	119.33	119.38
10	119.31	119.35	---	119.40	119.40	119.41	119.38	119.35	119.33	119.30	119.32	119.38
11	119.34	119.37	---	119.38	119.40	119.39	119.37	119.35	119.32	119.29	119.34	119.39
12	119.32	119.35	---	119.38	119.40	119.38	119.38	119.34	119.32	119.31	119.34	119.40
13	119.32	119.39	---	119.37	119.40	119.41	119.36	119.32	119.31	119.30	119.34	119.41
14	119.33	119.37	---	119.38	119.42	119.40	119.34	119.33	119.32	119.30	119.33	119.40
15	119.34	119.36	---	119.41	119.40	119.38	119.39	119.33	119.32	119.31	119.34	119.40
16	119.33	119.37	---	119.38	119.39	119.40	119.36	119.33	119.32	119.31	119.35	119.40
17	119.35	119.38	---	119.40	119.41	119.41	119.39	119.32	119.32	119.31	119.34	119.42
18	119.34	119.38	---	119.40	119.43	119.41	119.37	119.32	119.31	119.31	119.34	119.41
19	119.32	119.36	---	119.39	119.42	119.39	119.36	119.32	119.31	119.31	119.35	119.39
20	119.33	119.36	---	119.40	119.44	119.39	119.37	119.33	119.30	119.31	119.36	119.41
21	119.34	119.35	---	119.39	119.41	119.38	119.37	119.34	119.32	119.30	119.36	119.41
22	119.34	119.40	---	119.42	119.38	119.38	119.36	119.34	119.31	119.30	119.36	119.40
23	119.36	---	---	119.43	119.42	119.40	119.38	119.34	119.31	119.32	119.37	119.39
24	119.35	---	---	119.39	119.43	119.40	119.35	119.33	119.32	119.31	119.36	119.41
25	119.34	---	---	119.38	119.43	119.40	119.34	119.33	119.32	119.30	119.37	119.41
26	119.33	---	---	119.40	119.40	119.38	119.34	119.33	119.31	119.30	119.37	119.39
27	119.34	---	119.36	119.41	119.40	119.40	119.38	119.33	119.31	119.32	119.36	119.42
28	119.36	---	119.38	119.42	119.42	119.39	119.36	119.34	119.31	119.32	119.36	119.41
29	119.34	---	119.38	119.42	---	119.39	119.35	119.33	119.31	119.31	119.37	119.43
30	119.34	---	119.38	119.42	---	119.39	119.34	119.33	119.31	119.31	119.39	119.42
31	119.36	---	119.39	119.41	---	119.38	---	119.32	---	119.32	119.39	---
MAX	119.36	---	---	119.43	119.46	119.43	119.39	119.36	119.33	119.33	119.39	119.43
MIN	119.31	---	---	119.37	119.38	119.38	119.34	119.32	119.30	119.29	119.31	119.37

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25CAC1.

LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder since June 1987, hourly.

DATUM.--Elevation of land-surface datum is 4,523 ft above NGVD of 1929, from topographic map. Measuring point: Angle iron 5.03 ft below land-surface datum.

REMARKS.--In Paradise Valley.

PERIOD OF RECORD.--1945, (unpublished and available in the files of the U. S. Geological Survey); 1946 through 1974, monthly; 1975, monthly (unpublished and available in the files of the U. S. Geological Survey); 1976 to 1987, monthly; 1987 to current year, hourly.

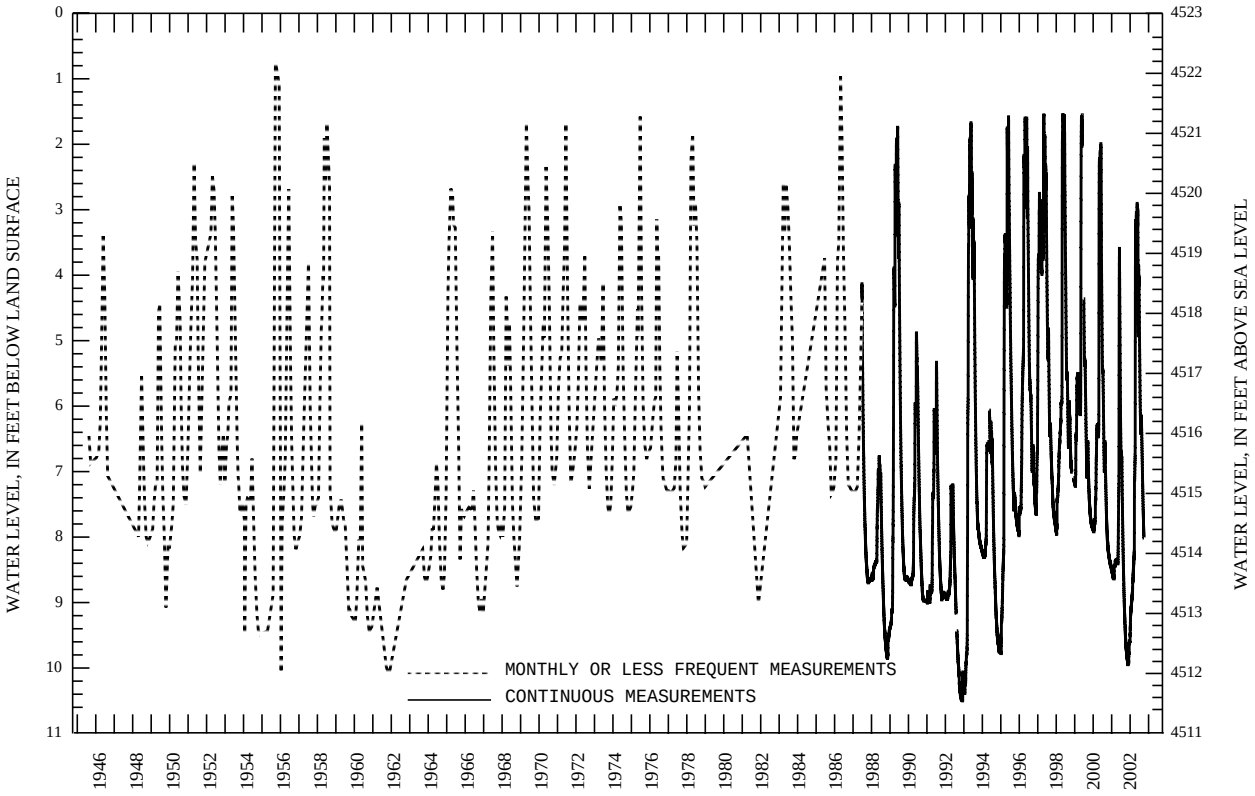
REVISED RECORDS.--WDR-NV-86-1: 1984-85.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, September 23, 1955; lowest measured, 11.03 ft below land-surface datum, November 16, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.58	9.86	9.92	9.41	8.94	8.53	6.91	4.07	3.55	4.90	6.30	7.17
10	9.66	9.89	9.78	9.19	8.90	8.45	6.75	3.48	4.59	5.30	6.15	7.35
15	9.70	9.92	9.63	9.14	8.85	8.36	3.87	3.49	4.41	5.70	6.29	7.56
20	9.74	9.95	9.60	9.09	8.65	8.29	3.16	2.90	3.92	6.01	6.50	7.71
25	9.78	9.92	9.60	9.05	8.66	8.21	3.37	3.36	4.10	6.28	6.70	7.86
EOM	9.82	9.90	9.48	8.98	8.60	7.12	3.66	3.20	4.49	6.41	6.96	7.99

WTR YR 2002 HIGH 2.90 MAY 20 LOW 9.95 NOV 20



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

STEPTOE VALLEY

385521114503601. Local number, 179 N12 E63 12AB11

LOCATION.--Lat 38°55'21", long 114°50'36", Hydrologic Unit 16060008, in White Pine County.
Owner: U.S. Geological Survey.

AQUIFER.-- Carbonate of Paleozoic age.

INSTRUMENTATION.-- Water-level recorder November 2000 to current year.

DATUM.-- Elevation of land-surface datum is 7,320 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.3 ft above land-surface datum.

REMARKS.-- Missing days due to equipment malfunction. Gage is located in Egan Range and is difficult to get to in the winter due to snow.

PERIOD OF RECORD.-- October 1980 to October 2000, intermittent; November 2000 to current year, 4 times per hour.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level recorded, 410.35 ft below land surface datum, July 31, 1984; lowest measured, 428.96 ft below land surface datum, September 8, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424.84	425.03	425.19	425.45	425.67	425.69	426.02	426.11	---	426.70	426.90	427.14
2	424.82	425.08	425.16	425.45	425.67	425.81	426.02	426.17	---	426.70	426.88	427.10
3	424.82	425.13	425.14	425.47	425.73	425.89	426.03	426.19	---	426.67	426.89	427.07
4	424.78	425.11	425.17	425.55	425.74	425.86	426.07	---	---	426.65	426.89	427.10
5	424.79	425.06	425.27	425.60	425.71	425.80	426.03	426.21	---	426.68	426.88	427.11
6	424.81	425.04	---	425.62	425.70	425.75	425.95	426.19	---	426.72	426.89	427.07
7	424.83	425.13	---	425.61	425.67	425.64	425.99	426.15	426.39	426.74	426.91	427.06
8	424.80	425.21	---	425.52	425.69	425.78	426.05	426.21	426.36	426.77	426.98	427.13
9	424.83	425.16	---	425.48	425.83	425.92	426.08	426.18	426.42	426.80	426.99	427.18
10	424.89	425.11	---	425.59	425.85	425.88	426.10	426.16	426.49	426.79	426.95	427.15
11	424.85	425.09	---	425.63	425.77	425.93	426.10	426.19	426.54	426.77	426.94	427.12
12	424.92	425.06	---	425.56	425.72	425.84	426.12	---	426.57	426.75	426.94	427.13
13	424.92	425.04	---	425.50	425.66	425.74	426.15	---	426.57	426.73	426.96	427.15
14	424.94	425.15	---	425.39	425.64	425.79	426.03	426.21	426.54	426.73	426.95	427.19
15	424.98	425.14	---	425.43	425.71	425.78	425.84	426.21	426.55	426.76	426.96	427.17
16	424.97	425.16	---	425.49	425.66	425.74	425.98	---	426.56	426.78	426.98	427.10
17	424.93	425.16	425.36	425.50	425.51	425.78	426.01	---	426.55	426.81	426.98	427.10
18	424.98	425.21	425.38	425.55	425.55	425.89	426.08	---	426.52	426.81	426.95	427.15
19	424.98	425.25	425.35	425.50	425.70	426.00	426.08	---	426.55	426.79	426.91	427.20
20	424.94	425.19	425.27	425.53	425.79	426.04	426.10	426.19	426.55	426.80	426.95	427.19
21	424.93	425.11	425.28	425.49	425.90	426.01	426.18	426.14	426.57	426.82	427.07	427.22
22	424.95	425.02	425.38	425.45	425.83	425.91	426.20	---	426.61	426.82	427.19	427.28
23	424.94	425.09	425.43	425.59	425.66	425.83	426.18	---	426.63	426.86	427.26	427.29
24	425.02	425.00	425.50	425.69	425.72	425.86	426.36	---	426.64	426.90	427.27	427.25
25	425.07	425.06	425.47	425.61	425.84	425.95	426.15	---	426.65	426.87	427.21	427.21
26	425.09	425.18	425.41	425.48	425.84	425.99	426.04	---	426.65	426.84	427.13	427.18
27	425.03	425.21	425.38	425.43	425.77	425.98	426.07	---	426.62	426.83	427.09	427.09
28	425.03	425.16	425.36	425.42	425.65	426.00	426.18	---	426.62	426.88	427.07	427.14
29	425.07	425.06	425.35	425.49	---	426.03	426.17	---	426.65	426.89	427.07	427.17
30	424.99	425.15	425.39	425.58	---	426.07	426.10	---	426.69	426.89	427.09	427.17
31	424.98	---	425.39	425.67	---	426.06	---	---	---	426.89	427.12	---
MAX	425.09	425.25	---	425.69	425.90	426.07	426.36	---	---	426.90	427.27	427.29
MIN	424.78	425.00	---	425.39	425.51	425.64	425.84	---	---	426.65	426.88	427.06

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

STEPTOE VALLEY

393310114475001. Local number, 179 N20 E64 32C2

LOCATION.--Lat 39°33'10" long 114°47'50", Hydrologic Unit 16060008, in White Pine County.
Owner: U. S. Geological Survey.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder August 1983 April 1998, hourly; January 1999 to January 2001, four times per hour; February 2001 to current year, hourly.

DATUM.--Elevation of land-surface datum is 6,037 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum or arrow on gage floor, 3.86 ft above land-surface datum.

REMARKS.--In Steptoe Valley.

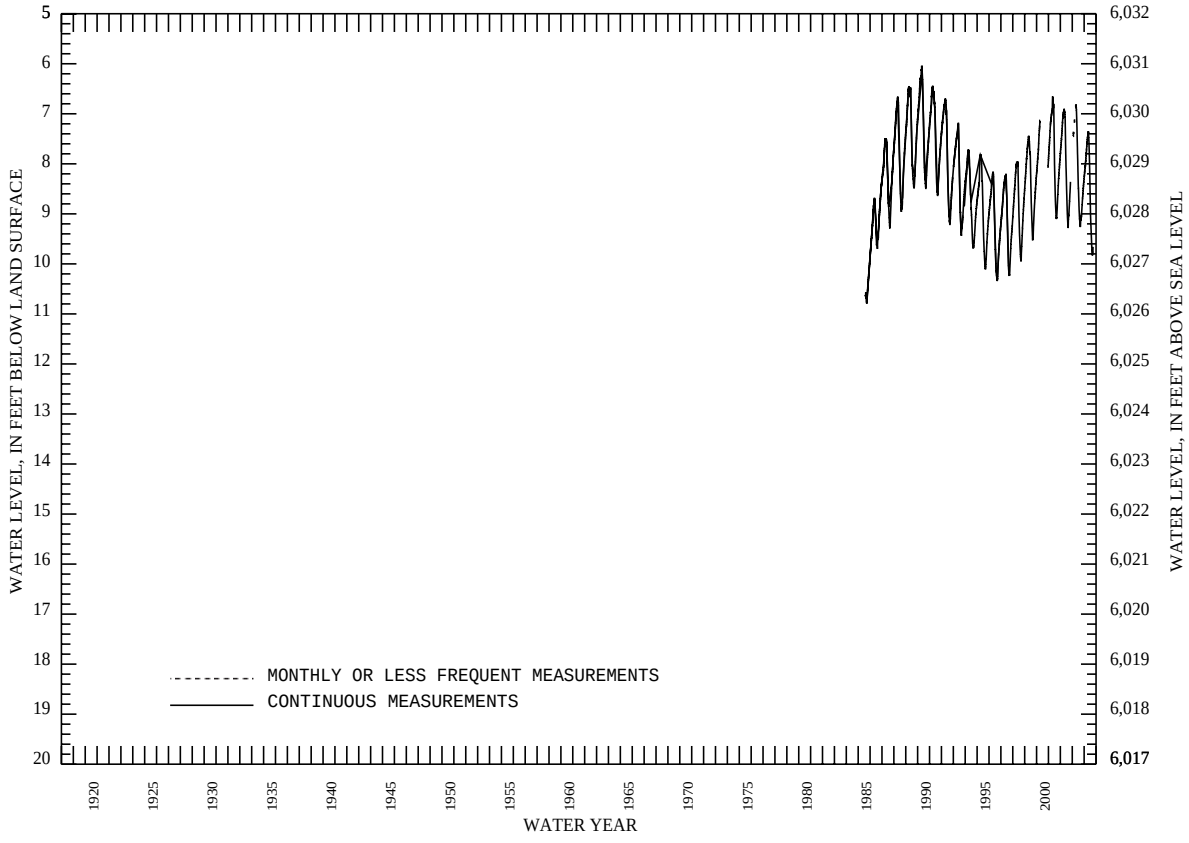
PERIOD OF RECORD.--1918, 1936, 1949 (unpublished and available in the files of the U.S. Geological Survey); 1950 through 1957, semiannually; 1959, yearly; January 1961 through September 1983, monthly; October 1983 to April 1998, hourly; May to December 1998, intermittent; January 1999 to January 2001, four times per hour; February 2001 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.03 ft below land-surface datum, May 5, 1988; lowest measured, 16.30 ft below land-surface datum, January 2, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.06	8.77	8.50	8.25	8.05	7.81	7.54	7.37	7.73	8.64	9.35	9.79
10	9.04	8.72	8.44	8.23	8.02	7.78	7.52	7.36	7.84	8.82	9.44	9.80
15	9.00	8.68	8.41	8.18	7.97	7.71	7.48	7.38	7.97	8.97	9.52	9.82
20	8.94	8.64	8.36	8.14	7.93	7.69	7.46	7.45	8.13	9.09	9.62	9.77
25	8.89	8.58	8.34	8.11	7.89	7.63	7.42	7.50	8.29	9.18	9.68	9.75
EOM	8.82	8.54	8.29	8.08	7.84	7.58	7.39	7.62	8.47	9.28	9.73	9.68

WTR YR 2002 HIGH 7.36 MAY 9-10 LOW 9.82 SEP 14-15



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

HIDDEN VALLEY

363308114553001. Local number, 217 S16 E63 09DDAB1,

LOCATION.--Lat 36°33'10", long 114°55'25", Hydrologic Unit 15010012, in Clark County.
Owner: U.S. Geological Survey.

AQUIFER.-- Carbonate of Paleozoic age.

INSTRUMENTATION.-- Water-level recorder October 2001 to September 2002.

DATUM.-- Elevation of land-surface datum is 2,648.8 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, 0.6 ft above land-surface datum.

REMARKS.-- None.

PERIOD OF RECORD.--December 1985 to September 2001, intermittent; October 2001 to September 2002, 4 times per hour.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 830.30 ft below land surface datum, on May 30, 1989; lowest water level recorded, 845.27 ft below land surface datum, September 27-30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	832.07	832.15	832.26	832.31	832.48	832.11	832.09	832.06	832.08	832.47	832.33	832.36
2	832.08	832.21	832.18	832.31	832.38	832.43	832.05	832.12	832.22	832.48	832.27	832.29
3	832.09	832.30	832.01	832.31	832.51	832.58	832.08	832.21	832.29	832.41	832.34	832.21
4	832.02	832.24	832.10	832.43	832.49	832.46	832.18	832.25	832.44	832.33	832.37	832.24
5	831.99	832.20	832.39	832.58	832.47	832.27	832.15	832.19	832.48	832.35	832.33	832.29
6	832.04	832.15	832.51	832.56	832.44	832.12	831.92	832.14	832.35	832.43	832.32	832.21
7	832.14	832.28	832.57	832.53	832.41	831.88	831.97	831.99	832.20	832.46	832.37	832.17
8	832.07	832.47	832.59	832.31	832.36	832.13	832.11	832.19	832.07	832.47	832.46	832.29
9	832.05	832.36	832.12	832.14	832.74	832.46	832.26	832.17	832.17	832.49	832.42	832.41
10	832.24	832.26	831.81	832.41	832.88	832.26	832.20	831.91	832.36	832.51	832.30	832.31
11	832.13	832.19	831.97	832.54	832.61	832.35	832.24	832.13	832.40	832.51	832.24	832.29
12	832.24	832.12	832.30	832.39	832.35	832.18	832.20	832.44	832.43	832.41	832.19	832.28
13	832.15	832.07	832.43	832.21	832.31	831.89	832.29	832.23	832.44	832.33	832.22	832.24
14	832.14	832.21	831.93	832.04	832.20	832.09	832.05	832.12	832.37	832.30	832.17	832.34
15	832.22	832.19	832.09	832.01	832.38	832.09	831.71	832.31	832.37	832.42	832.14	832.32
16	832.24	---	832.49	832.20	832.24	831.99	832.06	832.20	832.41	832.41	832.20	832.12
17	832.14	832.23	832.38	832.24	831.90	832.04	832.02	832.38	832.36	832.48	832.20	832.10
18	832.18	832.29	832.38	832.33	831.93	832.15	832.13	832.34	832.25	832.48	832.14	832.14
19	832.15	832.43	832.29	832.25	832.25	832.39	832.12	832.27	832.24	832.39	832.12	832.29
20	832.02	832.32	832.07	832.29	832.36	832.39	832.17	832.26	832.28	832.37	832.11	832.23
21	831.98	832.12	832.09	832.19	832.59	832.29	832.31	832.39	832.35	832.41	832.17	832.28
22	832.00	831.90	832.36	832.00	832.47	832.10	832.31	832.44	832.43	832.38	832.28	832.35
23	831.95	832.02	832.38	832.34	832.02	831.94	832.25	832.36	832.45	832.46	832.30	832.57
24	832.17	831.92	832.52	832.63	832.18	832.01	832.32	832.45	832.44	832.56	832.35	832.49
25	832.27	831.96	832.48	832.42	832.43	832.18	832.16	832.41	832.46	832.50	832.33	832.38
26	832.31	832.22	832.34	832.14	832.50	832.22	831.92	832.35	832.44	832.38	832.25	832.37
27	832.20	832.30	832.25	831.98	832.23	832.15	832.05	832.36	832.38	832.34	832.18	832.23
28	832.19	832.34	832.23	831.98	831.94	832.12	832.27	832.41	832.36	832.41	832.17	832.32
29	832.29	832.06	832.24	832.07	---	832.11	832.17	832.44	832.41	832.38	832.23	832.30
30	832.17	832.17	832.26	832.27	---	832.21	832.06	832.37	832.48	832.33	832.26	832.47
31	832.08	---	832.19	832.54	---	832.20	---	832.33	---	832.36	832.34	---
MAX	832.31	---	832.59	832.63	832.88	832.58	832.32	832.45	832.48	832.56	832.46	832.57
MIN	831.95	---	831.81	831.98	831.90	831.88	831.71	831.91	832.07	832.30	832.11	832.10

County codes--001, Churchill; 003, Clark; 013, Humboldt; 019, Lyon; 023, Nye; 027, Pershing; 031, Washoe; 033, White Pine.
Depths, perforated interval, and elevation--Depths are referenced to land-surface datum (LSD). Elevation is that of LSD, with reference to sea level.
Water Level Status--J, Nearby site that taps the same aquifer was injecting recharge water.; S, Nearby site that taps the same aquifer was being pumped.; T, Nearby site that taps the same aquifer had been pumped recently; Z, Other.
Water Level Method--S, steel tape; T, electric tape; V, calibrated electric tape.
Reporting Agency--NV003, Nevada Division of Water Resources; USGS, U.S. Geological Survey.
Locations of following sites are shown in figures 30, 33, 40, and 41.

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
					Top	Bottom		Date	Feet	Status	Method	Reporting Agency
031 N34 E32 16ABDC1	404901118223601	11/11/1990	027	152.	147.	152.	4210.	10/03/2001	119.28		S	USGS
								11/14/2001	119.32		S	USGS
								12/26/2001	119.38		S	USGS
								02/12/2002	119.40		S	USGS
								03/18/2002	119.40		S	USGS
								04/30/2002	119.34		S	USGS
								06/12/2002	119.34		S	USGS
								07/26/2002	119.32		S	USGS
								09/04/2002	119.40		S	USGS
069 N42 E39 25CAC 1	412910117321001	08/17/1945	013	17.			4523.	10/02/2001	9.55		S	USGS
								11/15/2001	9.94		S	USGS
								12/27/2001	9.61		S	USGS
								02/13/2002	8.86		S	USGS
								03/21/2002	8.31		S	USGS
								05/01/2002	3.70		S	USGS
								06/13/2002	4.94		S	USGS
								07/22/2002	6.13		S	USGS
								09/05/2002	7.18		S	USGS
097 N28 E20 31BACD1	401528119470501	09/26/1988	031	330.	317.	330.	4178.	10/19/2001	250.94		S	USGS
								11/19/2001	251.31		S	USGS
								12/27/2001	251.01		S	USGS
								02/11/2002	251.05		S	USGS
								03/26/2002	251.04		S	USGS
								05/08/2002	251.05		S	USGS
								06/18/2002	251.03		S	USGS
								07/22/2002	251.07		S	USGS
								09/03/2002	250.94		S	USGS
101 N19 E28 36AABC1	392825118470501	09/21/1969	001	540.	505.	540.	3962.23	10/05/2001	51.94		S	USGS
								11/13/2001	50.56		S	USGS
								01/02/2002	48.99		S	USGS
								02/08/2002	48.54		S	USGS
								03/18/2002	48.33		S	USGS
								05/02/2002	49.77		S	USGS
								06/14/2002	50.71		S	USGS
								08/01/2002	52.08		S	USGS
								09/05/2002	52.34		S	USGS
128 N18 E34 28CCD 1	392323118095001	04/18/1976	001	475.	265.	405.	4100.	10/01/2001	210.67		S	USGS
								11/13/2001	210.62		S	USGS
								01/08/2002	210.59		S	USGS
								02/04/2002	210.88		S	USGS
								03/13/2002	210.57		S	USGS
								04/29/2002	210.57		S	USGS
								06/13/2002	210.57		S	USGS
								07/29/2002	210.74		S	USGS
								09/12/2002	210.62		S	USGS
179 N20 E64 32C 2	393310114475001	06/24/1918	033	122.	20.	120.	6037.	10/16/2001	8.98		S	USGS
								12/12/2001	8.44		S	USGS
								02/06/2002	8.04		S	USGS
								03/19/2002	7.71		S	USGS
								05/08/2002	7.37		S	USGS
								06/25/2002	8.28		S	USGS
								08/13/2002	9.49		S	USGS

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS--Continued

	Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
230	S17 E49 15BC 1	362835116264101	08/13/1959	023	415.	55.	415.	2267.	07/11/2002	79.75		S	USGS
									08/07/2002	82.30		S	USGS
									09/13/2002	80.79		S	USGS
230	S19 E50 01BBD 2	361954116181202	10/29/1986	023	160.	157.	160.	2351.3	10/24/2001	81.16		S	USGS
									11/07/2001	81.17		S	USGS
									12/10/2001	81.07		S	USGS
									01/08/2002	81.21		S	USGS
									02/05/2002	81.25		S	USGS
									03/19/2002	81.22		S	USGS
									04/18/2002	81.15		S	USGS
									05/01/2002	81.11		S	USGS
									06/18/2002	81.06		S	USGS
									07/02/2002	81.08		S	USGS
									08/06/2002	81.03		S	USGS
									09/10/2002	80.97		S	USGS
243	S11 E42 10ADB 1	370106117230601	10/06/2000	027	8.3	3.7	8.2	2230	10/24/2001	2.70		S	NV003
									11/28/2001	2.40		S	NV003
									01/09/2002	2.10		S	NV003
									02/18/2002	2.00		S	NV003
									03/28/2002	1.90		S	NV003
									04/30/2002	2.10		S	NV003
									06/06/2002	2.60		S	NV003
									07/05/2002	2.80		S	NV003
									08/08/2002	2.90		S	NV003

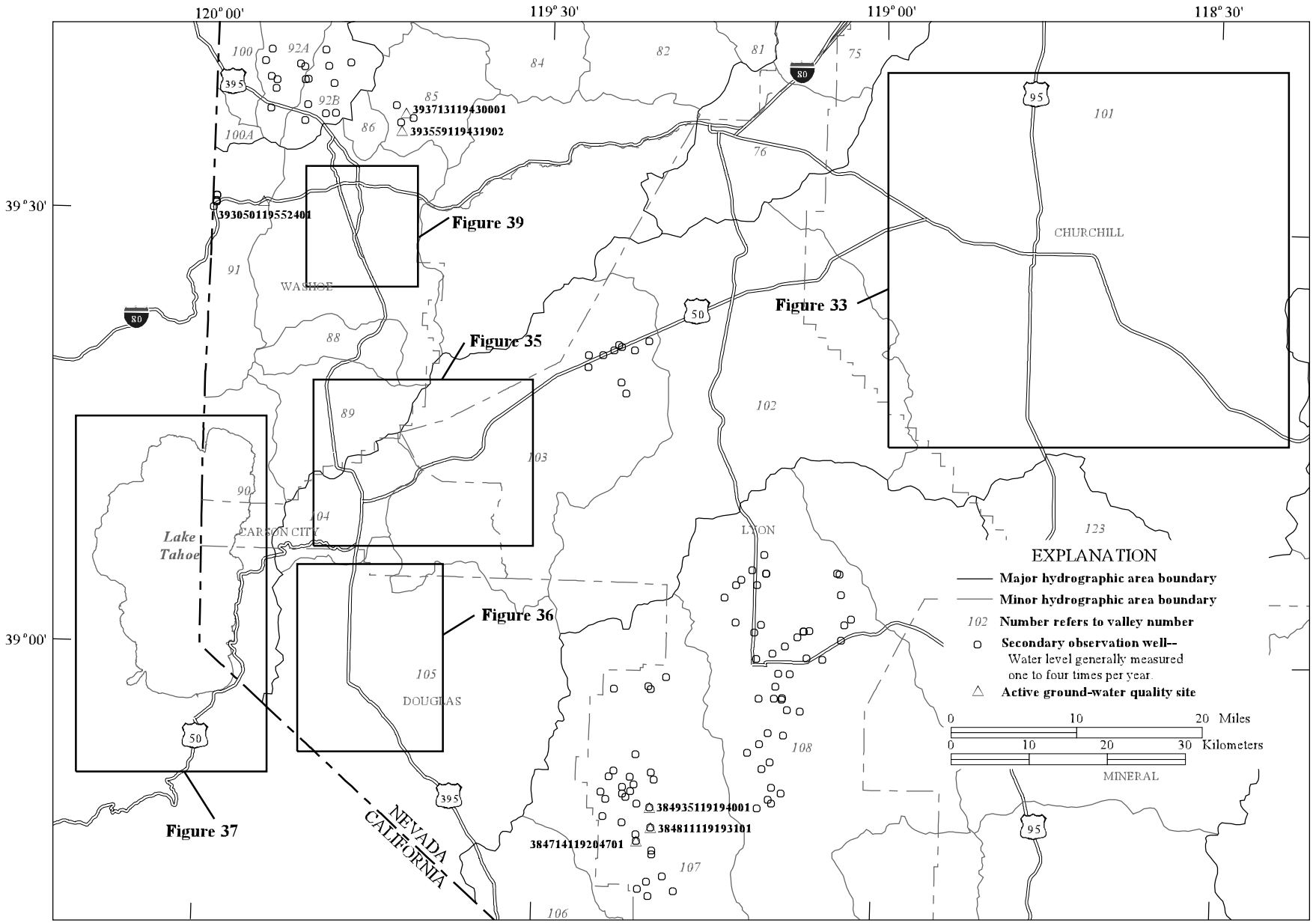


Figure 32. Ground-water sites, west-central Nevada.

County code--001, Churchill; 003, Clark; 007, Elko; 009, Esmeralda; 011, Eureka; 015, Lander; 019, Lyon; 021, Mineral; 023, Nye; 027, Pershing; 031, Washoe; 033, White Pine.

Independent City code: 510, Carson City.

Depths, perforated interval, and elevation--Depths are referenced to land-surface datum (LSD). Elevation is that of LSD, with reference to sea level.

Water Level--Levels above LSD are listed as negative values.

Water Level Status--D, site was dry (no water level was recorded); F, site was flowing. Water level or head could not be measured without additional equipment; O, obstruction was encountered in the well (no water level was recorded); P, site was being pumped; R, site had been pumped recently; S, site that taps the same aquifer was being pumped; V, foreign substance was present on the surface of the water; X, water level was affected by stage in nearby surface-water site; W, well destroyed; Z, other.

Water Level Method--R, reported; S, steel tape; T, electric tape; V, calibrated electric tape.

Reporting Agency--NV003, Nevada Division of Water Resources; USGS, U.S. Geological Survey; USFWS, U.S. Fish and Wildlife.

Locations of following sites are shown in figures 30, 32, 35, 39, 40, and 41.

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
(B-16-21)05bbb 1	344828114321001	10/24/2002	015	17.92	7.92	17.92	457.08	09/17/2002	7.28		S	USGS
001 N47 E30 15CDCD1	415800118370001	04/10/1975	013	200.			4380.	03/15/2002	57.52		S	NV003
002 N45 E28 10CAB 1	415000118440001	03/29/1994	013	48.			4228.	03/15/2002	5.79		S	NV003
002 N45 E28 34C 1	414639118454801	03/09/1957	013	493.			4285.	06/27/2002	30.10		T	USGS
004 N46 E26 24CC 1	415410118570001	06/27/2002	013	112.			4392.	06/27/2002	18.00		T	USGS
011 N47 E20 30B 1	415701119470101	06/26/2002	031	184.			4780.	06/26/2002	30.40		T	USGS
027 N42 E26 20ACAD1	413242119014001	07/23/2002	013	210.	185.	205.	5969.	07/23/2002	81.65		S	USGS
027 N42 E26 20ADAD2	413242119014002	07/23/2002	013	124.	99.	119.	5969.	07/23/2002	71.45		S	USGS
								03/28/2002	90.00		S	USGS
								05/07/2002	90.52		S	USGS
								06/10/2002	91.28		S	USGS
								07/23/2002	97.19		S	USGS
								09/09/2002	95.33		T	USGS
030B N43 E34 28DBBB1	413412118100201	03/18/2002	013				4125.	03/18/2002	13.15		S	NV003
033A N42 E37 04BDCA1	413300117494001	03/12/1986	013	360.			4235.	03/20/2002	123.09		S	USGS
033A N42 E37 32AAAC1	412854117495001	05/08/1996	013	250.	150.	250.	4200.	03/21/2002	64.10		S	USGS
043 N36 E59 26DBDD1	405824115164501	04/27/1982	007	60.0	36.	58.	5540.	07/22/2002	5.10		T	USGS
045 N33 E58 19ADDD1	404350115281001	12/29/1944	007	16.			5950.	03/27/2002	11.51		S	USGS
045 N34 E57 24CDDD1	404822115300801	04/28/1955	007	97.			5550.	03/27/2002	0.12		S	USGS
046 N31 E56 16ADDA1	403400115400001	03/27/1997	007	193.			5650.	03/27/2002	91.81		S	USGS
054 N29 E48 03BCDD1	402450116324001	04/20/1993	011	53.			4735.	03/22/2002		F		USGS
054 N29 E48 29CCCD1	402100116352001	03/19/1980	011	300.			4797.	03/22/2002	49.08		S	USGS
059 N31 E44 01DBDD1	403520117181101	03/20/1995	015	52.			4560.	03/24/2002		D		USGS
059 N31 E45 05ABBD1	403539116553201	08/13/1996	015	6.			4545.	03/22/2002		D		USGS
061 N32 E45 11DACA1	403920116520001	09/18/1963	015	197.			4518.	03/22/2002	10.58		S	USGS
064 N33 E43 18DCBA1	404251117103101	05/05/2002	013	760.	680.	760.	5150.	11/16/2001	499.00		R	USGS
064 N33 E43 18DCBA1	404251117103101	05/05/2002	013	760.	680.	760.	5150.	05/05/2002	506.00		R	USGS
064 N33 E43 31DBDD1	404115117102001	11/20/2001	013	990.	910.	990.	5893.	11/20/2001	847.00		R	USGS
								05/05/2002	845.00		R	USGS
064 N33 E43 31DCBA1	404105117104101	05/05/2002	013	1008.	928.	1008.	5750.	11/17/2001	698.00		R	USGS
								05/05/2002	698.00		R	USGS
069 N38 E39 28CDDD1	410806117353501	03/29/1982	013	256.			4317.	03/21/2002	33.14		S	USGS
070 N36 E40 29CDAB1	405747117295101	05/06/1996	013	306.			4375.	03/19/2002	6.77		S	USGS
071 N33 E38 32BABB1	404138117441501	04/18/1989	027	55.			4431.	03/19/2002	36.26		S	USGS
072 N32 E33 28DDDD1	403620118153001	04/13/1988	027	236.	98.	234.	4210.	03/19/2002	35.66	V	S	USGS
073A N29 E33 33AAAC1	402000118160001	04/11/1985	027	395.	100.	395.	4320.	03/19/2002	125.66		S	USGS
081 N24 E22 31CCCC2	395357119333401	03/16/2001	031	226.			3986.	03/26/2002	18.12		S	USGS
081 N27 E21 09BDAC1	401352119380201	03/17/1992	031	47.	45.	47.	3845.	03/19/2002	14.25		S	NV003
081 N27 E21 16ABCD1	401245119374401	03/17/1992	031	44.	42.	44.	3838.	03/19/2002	18.66		S	NV003
081 N28 E21 33CCDC1	401443119381201	03/17/1992	031	60.	58.	60.	3865.	03/19/2002	24.47		S	NV003
083 N19 E20 14AAAC2	393108119415102	06/09/2001	031	26.	16.	26.	4387.6	06/03/2002	14.10		T	USGS
085 N20 E20 03BCCC1	393744119435101	02/20/1992	031	379.			4595.	03/29/2002	74.68		S	USGS
085 N20 E20 10CDAB1	393637119432901	03/15/1993	031	105.	59.	99.	4492.	03/29/2002	34.10		S	USGS
085 N20 E20 11BDDA1	393655119421901	12/15/1992	031	160.	80.	160.	4462.	03/29/2002	1.79		S	USGS
087 N18 E20 05BCAC1	392726119460101	04/11/1994	031	35.	25.	35.	4460.	10/18/2001	10.80		T	USGS
087 N18 E20 17BBAD1	392554119455801	05/31/1994	031	35.	25.	35.	4540.	10/18/2001	34.10		T	USGS
087 N18 E20 18ACAD1	392541119463101	02/24/2002	031	102.	92.	102.	4642.	02/24/2002	94.30		T	USGS
087 N18 E20 19AABA1	392507119462001	01/22/2002	031	139.	129.	139.	4670.	01/22/2002	132.70		T	USGS
087 N19 E19 01DDCA1	393211119472901	07/06/1994	031	34.	24.	34.	4450.	10/11/2001	24.00		T	USGS

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
087 N19 E19 02CDCB1	393208119491401	05/30/2002	031	149.	118.	148.	4588.	05/30/2002	112.10		T	USGS
087 N19 E19 10DAAA1	393139119493401	06/21/1994	031	33.	13.	33.	4530.	10/10/2001	32.20		T	USGS
087 N19 E19 11CADA1	393131119490001	12/03/1993	031	30.	17.	27.	4500.	10/11/2001	14.40		T	USGS
087 N19 E19 11CADA2	393132119485801	02/12/1988	031	40.	10.	40.	4500.	10/11/2001	25.40		T	USGS
087 N19 E19 13BCBC1	393055119482001	07/12/1994	031	29.	19.	29.	4470.	10/11/2001	7.00		T	USGS
087 N19 E19 13DCAA1	393032119473501	07/26/1994	031	39.	29.	39.	4435.	10/11/2001	20.60		T	USGS
087 N19 E19 15BDDD1	393045119500701	06/03/1994	031	29.	22.	29.	4550.	10/10/2001	20.20		T	USGS
087 N19 E19 16CCCA1	393023119513701	01/20/2002	031	49.	39.	49.	4618.	01/20/2002	38.60		T	USGS
087 N19 E19 25BAAA1	392927119475201	06/21/1994	031	57.	47.	57.	4460.	10/18/2001	34.20		T	USGS
087 N19 E19 26CDDD1	392837119485901	02/27/2002	031	159.	144.	154.	4635.	02/27/2002	91.30		T	USGS
087 N19 E20 02BACB1	393249119422901	06/24/1994	031	20.	10.	20.	4400.	10/18/2001	7.70		T	USGS
087 N19 E20 04ABAA1	393257119441401	07/05/1994	031	24.	14.	24.	4408.	10/18/2001	8.20		T	USGS
087 N19 E20 04CACA1	393022119444301	07/28/1994	031	32.	22.	32.	4405.	10/18/2001	8.70		T	USGS
087 N19 E20 08DDBB1	393123119452301	10/18/2001	031	15.	10.	15.	4409.	10/18/2001	11.70		T	USGS
087 N19 E20 10AAAA1	393206119425301	06/23/1994	031	36.	26.	36.	4390.	10/18/2001	3.70		T	USGS
087 N19 E20 11CACA1	393132119422801	05/20/1994	031	25.	18.	25.	4386.	10/18/2001	10.50		T	USGS
087 N19 E20 16BCAC1	393054119445501	10/18/2001	031	15.	10.	15.	4400.	10/18/2001	11.70		T	USGS
087 N19 E20 18CDBA1	393033119465401	05/20/1994	031	38.	33.	38.	4422.	10/18/2001	22.70		T	USGS
087 N19 E20 19ADBB1	393006119462801	07/27/1999	031	15.	5.	15.	4406.	05/14/2002	6.80		T	USGS
087 N19 E20 20DCAD1	392937119452601	05/04/1994	031	14.	10.	15.	4395.	10/18/2001	6.60		T	USGS
087 N19 E20 21DADB1	392944119440301	04/18/1994	031	20.	15.	20.	4390.	10/18/2001	7.10	X	T	USGS
087 N19 E20 30BADD1	392918119464901	01/25/2002	031	21.	11.	21.	4409.	01/25/2002	4.60		T	USGS
087 N19 E20 30BDAB1	392917119464901	05/03/1994	031	15.	10.	15.	4410.	10/18/2001		W		USGS
087 N19 E20 30DACA2	392855119462301	04/29/1994	031	25.	20.	25.	4417.	10/18/2001	6.40		T	USGS
087 N20 E20 34ACCC1	393328119432001	10/18/2001	031	25.	18.	25.	4405.	10/18/2001	6.00		T	USGS
089 N16 E19 10BBDA1	391617119502101	03/15/1993	031	94.			5065.	03/13/2002	6.20		T	USGS
089 N16 E19 14DCCD1	391439119485301	03/13/2002	031	83.	70.	90.	5030.	03/13/2002	6.90	X	T	USGS
089 N16 E19 15DADB1	391458119493801	03/12/2002	031	130.	100.	130.	5080.	03/12/2002	9.80	R	S	USGS
089 N16 E19 35ACD 1	391233119484501	04/01/1994	510	76.	52.	72.	5220.	10/10/2001	17.35		S	NV003
								01/29/2002	7.60		S	NV003
								04/02/2002	5.82		S	NV003
								07/02/2002	18.62		S	NV003
089 N16 E19 35ACD 2	391233119484502	01/03/1992	510	220.			5240.	10/10/2001	3.38		S	NV003
								01/29/2002	3.18		S	NV003
								04/02/2002	2.89		S	NV003
								07/02/2002	2.99		S	NV003
089 N16 E19 35ADC 1	391232119483401	10/04/1991	510	116.	50.	116.	5250.	10/10/2001	35.18		S	NV003
								01/29/2002	26.92		S	NV003
								04/02/2002	27.10		S	NV003
								07/02/2002	36.62		S	NV003
091 N19 E18 18AABC1	393108119594201	05/25/1996	031	157.	147.	157.	4890.	10/10/2001	82.10		T	USGS
091 N19 E18 18AABC2	393108119594202	05/24/1996	031	66.	56.	66.	4890.	10/10/2001	40.20		T	USGS
091 N19 E18 18AABC3	393108119594203	05/24/1996	031	30.	20.	30.	4890.	10/10/2001	29.10		T	USGS
091 N19 E18 18DABB1	393046119594301	05/23/1996	031	40.	35.	40.	4900.	10/10/2001	8.40		T	USGS
091 N19 E18 18DABB2	393046119594302	05/24/1996	031	15.	10.	15.	4900.	10/10/2001	8.90		T	USGS
091 N19 E18 18DABD1	393040119594201	10/10/2001	031	57.	52.	57.	4900.	10/10/2001	11.50		T	USGS
091 N19 E18 18DABD2	393040119594202	10/10/2001	031	18.	13.	18.	4900.	10/10/2001	12.40		T	USGS
091 N19 E18 19ABBA1	393019119595701	05/21/1996	031	60.	50.	60.	4992.	10/10/2001	45.80		T	USGS
092A N20 E18 02DDDD1	393718119550601	01/04/1990	031	170.	100.	170.	5222.	10/15/2001	44.70		S	NV003
								02/20/2002	32.50		S	NV003
								04/04/2002	29.75		S	NV003
								07/08/2002	34.50		S	NV003
092A N21 E18 23AADD1	394034119554301	04/12/1990	031	570.	280.	570.	5130.	10/15/2001	209.98		S	NV003
								02/20/2002	202.05		S	NV003
								04/04/2002	198.82		S	NV003
								07/09/2002	197.22		S	NV003
092A N21 E18 25CBBA1	393929119551001	07/09/2002	031	116.	91.	111.	4990.	10/15/2001	47.96		S	NV003
								02/20/2002	45.44		S	NV003
								04/03/2002	45.18		S	NV003
								07/09/2002	48.54		S	NV003

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
092A N21 E18 36ADDD1	393839119544101	01/07/1988	031	150.	148.	150.	4968.	10/15/2001	4.46		S	NV003
								02/20/2002	4.72		S	NV003
								04/04/2002	4.82		S	NV003
								07/09/2002	5.03		S	NV003
092A N21 E19 18BCBA1	394120119550901	10/23/1991	031	810.			5041.	07/09/2002	123.44		S	NV003
092A N21 E19 20BDCD1	394022119541201	01/03/1995	031	65.	65.	67.	5025.	10/17/2001	52.17		S	NV003
								02/28/2002	52.36		S	NV003
								04/04/2002	52.39		S	NV003
								07/09/2002	52.54		S	NV003
092A N21 E19 20DBDA1	394013119521001	07/01/1992	031	87.	85.	87.	5040.	10/17/2001	54.17		S	NV003
								02/28/2002	54.20		S	NV003
								04/04/2002	54.27		S	NV003
								07/09/2002	54.60		S	NV003
092A N21 E19 30CACC1	393916119543701	01/07/1992	031	22.	20.	22.	4970.	10/15/2001	12.84		S	NV003
092B N20 E19 05CDAD2	393725119522402	03/31/1995	031				5060.	10/17/2001		P		NV003
092B N20 E19 05DAAD1	393737119514801	07/07/1993	031				5020.	10/23/2001	49.25		S	NV003
								02/21/2002	46.70		S	NV003
								04/04/2002	46.85		S	NV003
								07/09/2002	50.66		S	NV003
092B N20 E19 08DDCB1	393630119520201	10/24/2002	031	387.			5170.	10/23/2001		O		NV003
								02/20/2002		O		NV003
092B N20 E19 10BCAD1	393700119501101	07/07/1998	031				5070.	10/25/2001	89.08		S	NV003
								02/21/2002	80.52		S	NV003
								04/04/2002	81.21		S	NV003
								07/09/2002	94.88		S	NV003
092B N20 E19 11BCAA1	393704119491801	04/06/1984	031				5125.	10/23/2001	89.67		S	NV003
								02/21/2002	85.78		S	NV003
								04/05/2002	85.37		S	NV003
092B N21 E19 15BACD1	394126119502101	06/23/1981	031				5025.	10/17/2001		O		NV003
								02/21/2002		O		NV003
								07/09/2002		O		NV003
092B N21 E19 22DBAA1	394017119500201	01/07/1988	031	150.	148.	150.	4919.	10/17/2001	62.16		S	NV003
								04/04/2002	58.80		S	NV003
								07/09/2002	63.48		S	NV003
092B N21 E19 24BADD1	394034119480401	04/02/1998	031				4983.	10/17/2001	107.57		S	NV003
								02/21/2002	107.92		S	NV003
								04/04/2002	107.95		S	NV003
								07/09/2002	108.43		S	NV003
092B N21 E19 26CCDB1	393907119493101	04/07/1992	031	62.	60.	62.	4919.	10/17/2001	55.34		S	NV003
								02/21/2002	51.65		S	NV003
								04/04/2002	51.19		S	NV003
								07/09/2002	54.88		S	NV003
092B N21 E19 28CBCC1	393921119515001	07/08/1994	031	53.	51.	53.	4930.	10/23/2001	19.65		S	NV003
								02/21/2002	18.05		S	NV003
								04/04/2002	17.64		S	NV003
								07/09/2002	19.05		S	NV003
092B N21 E19 29DACB1	393920119520701	04/08/1994	031	84.	82.	84.	5035.	10/17/2001	43.00		S	NV003
								02/21/2002	43.30		S	NV003
								04/04/2002	44.00		S	NV003
								07/09/2002	44.10		S	NV003
097 N26 E19 02DCA 1	400849119485301	01/23/1989	031	240.	224.	240.	4172.	03/26/2002	200.42		S	USGS
097 N27 E19 24ADDD1	401138119472301	01/23/1989	031	180.	168.	180.	4010.	03/26/2002	61.62		S	USGS
103 N15 E20 15BDBA1	391004119433301	06/16/1995	510	105.	85.	105.	4620.	10/10/2001	8.71		S	NV003
								01/29/2002	7.27		S	NV003
								04/02/2002	7.59		S	NV003
								07/03/2002	8.66		S	NV003
103 N17 E23 10ABCD1	392126119230901	04/11/1983	019	88.			4276.98	03/21/2002	61.03		S	USGS
103 N17 E23 10BABD1	392132119232501	01/12/1981	019	300.	234.	300.	4285.5	03/21/2002	69.94		S	USGS
103 N17 E23 11DBAB1	392112119215801	04/01/1990	019	180.			4288.	03/21/2002	68.40	R	S	USGS
103 N17 E23 26CCCC1	391812119224001	03/21/2002	019	176.	156.	176.	4298.	03/21/2002	64.06		S	USGS
103 N17 E23 27ABAC1	391857119230701	03/28/1988	019	220.	180.	220.	4286.	03/21/2002	55.52		S	USGS

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
104 N15 E19 13ADDD1	390955119471601	01/29/2003	510	127.	60.	120.	4800.	10/10/2001	12.40		S	NV003
								01/29/2002	13.82		S	NV003
								04/02/2002	15.83		S	NV003
								07/03/2002	18.57		S	NV003
104 N15 E20 02CACC2	391125119423002	10/04/1993	510	39.	37.	39.	4639.	10/10/2001		F		NV003
								01/29/2002		F		NV003
								04/02/2002		F		NV003
								07/02/2002		F		NV003
104 N15 E20 02CACC3	391126119423201	03/07/2002	510	15.3	10.3	15.3	4637.	03/07/2002	3.80		T	USGS
104 N15 E20 04DBCD1	391127119442501	05/15/2002	510	32.	22.	32.	4688.	05/15/2002	13.00		T	USGS
								10/10/2001	14.64		S	NV003
								01/29/2002	14.39		S	NV003
								04/02/2002	14.35		S	NV003
								07/02/2002	14.26		S	NV003
104 N15 E20 04DBDD2	391126119441902	10/06/1992	510	33.	30.	32.	4682.	10/10/2001	15.35		S	NV003
								01/29/2002	15.27		S	NV003
								04/02/2002	15.22		S	NV003
								07/02/2002	15.08		S	NV003
104 N15 E20 05BBCA1	391155119460401	09/05/1990	510	102.	82.	102.	4737.	10/10/2001	29.20		S	NV003
								01/29/2002	22.39		S	NV003
								04/02/2002	20.06		S	NV003
								07/02/2002	31.25		S	NV003
104 N15 E20 05BBCA2	391155119460402	10/04/1991	510	62.			4737.	10/10/2001	37.74		S	NV003
								01/29/2002	19.69		S	NV003
								04/02/2002	24.88		S	NV003
								07/02/2002	41.12		S	NV003
104 N15 E20 06BDBD1	391149119465201	04/09/1999	510	460.	100.	440.	4750.	10/10/2001	40.38		S	NV003
								01/29/2002	29.05		S	NV003
								04/02/2002	30.79		S	NV003
								07/02/2002	44.44		S	NV003
104 N15 E20 07BBAB1	391110119470501	11/08/1988	510	150.			4800.	10/10/2001	77.17	S	S	NV003
								01/29/2002	77.09	S	S	NV003
								04/02/2002	75.11	S	S	NV003
								07/03/2002	81.07		S	NV003
104 N15 E20 08ADBB1	391055119451801	09/20/2001	510	15.	10.	15.	4680.	05/07/2002	3.20		T	USGS
104 N15 E20 08BBBB2	391110119460601	02/01/2002	510	98.	88.	98.	4724.	02/01/2002	15.80		T	USGS
								02/15/2002	16.00		T	USGS
104 N15 E20 08BBBB3	391110119460602	02/02/2002	510	20.	10.	20.	4724.	02/02/2002	4.70		T	USGS
								02/15/2002	4.60		T	USGS
104 N15 E20 15BABB1	391016119433901	04/03/2002	510	39.	29.	39.	4640.	04/03/2002	22.00		T	USGS
								06/13/2002	23.40		T	USGS
104 N15 E20 16BDBB1	391004119444901	10/09/1990	510	105.	82.	102.	4641.	01/29/2002	7.80		S	NV003
								04/02/2002	6.21		S	NV003
								07/03/2002	12.66		S	NV003
104 N15 E20 17CBBA1	390954119460401	02/06/1991	510	102.	82.	102.	4680.	10/10/2001	9.58		S	NV003
								01/29/2002	3.35		S	NV003
								04/02/2002	3.13		S	NV003
								07/03/2002	9.37		S	NV003
104 N15 E20 18BDDA1	390958119464301	01/04/1991	510	102.	82.	102.	4739.	10/10/2001	11.46		S	NV003
								01/29/2002	11.79		S	NV003
								04/02/2002	12.89		S	NV003
								07/03/2002	13.66		S	NV003
104 N15 E20 28BCCC1	390810119450101	04/11/2002	510	54.	44.	54.	4692.	04/11/2002	35.50		T	USGS
104 N15 E20 29AAAB1	390834119450701	04/02/2002	510	28.	18.	28.	4678.	04/02/2002	21.00		T	USGS
104 N15 E20 29CADD1	390758119453701	03/12/2002	510	47.	37.	47.	4721.	03/12/2002	39.70		T	USGS
104 N15 E20 29DAAB1	390807119450901	09/05/1990	510	105.	80.	100.	4698.	01/30/2002	42.52		S	NV003
104 N15 E20 32BDAA1	390728119453801	11/05/1990	510	105.	82.	102.	4720.	10/10/2001	45.12		S	NV003
								01/29/2002	40.38		S	NV003
								04/02/2002	40.04		S	NV003
								07/03/2002	44.77		S	NV003
104 N15 E20 32DADA1	390708119450301	05/20/2002	510	140.	130.	140.	4734.	02/22/2002	119.70		T	USGS
								05/20/2002	50.50		T	USGS

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
104 N16 E20 33CCDD1	391205119444901	01/04/1991	510	118.	94.	118.	4732.	10/10/2001	41.96		S	NV003
								01/29/2002	41.66	S	S	NV003
104 N16 E20 33CCDD1	391205119444901	01/04/1991	510	118.	94.	118.	4732.	04/02/2002	41.72	S	S	NV003
								07/02/2002	41.85	S	S	NV003
107 N10 E24 08CBCA1	384426119194601	03/08/1993	019	504.	100.	504.	4950.	02/27/2002	111.82		S	NV003
107 N10 E24 09BACC1	384459119174401	03/23/1992	019	652.	78.	574.	4915.	03/05/2002	152.80		T	USGS
107 N10 E24 16ACCC1	384350119172301	02/24/1994	019	486.	196.	486.	5000.	02/26/2002	171.75		S	NV003
107 N10 E24 17CCAA1	384326119193701	03/02/1995	019	490.	150.	490.	4980.	02/27/2002	171.33		S	NV003
107 N10 E24 18BACD1	384356119203501	02/24/1992	019	536.	198.	536.	5000.	02/27/2002	182.25		S	NV003
107 N11 E23 01CCCC1	385016119214801	04/02/1987	019	128.	108.	128.	4790.	02/27/2002	27.09		S	NV003
107 N11 E23 02ADDD1	385040119212301	03/06/1989	019	537.	147.	537.	4780.	02/27/2002	49.44		S	NV003
107 N11 E23 02BBCC1	385057119220701	03/02/1999	019	412.	96.	412.	4797.	02/27/2002	38.28	V	S	NV003
107 N11 E23 02CCBB1	385030119220501	03/06/1997	019	546.	138.	546.	4800.	02/27/2002	63.85		S	NV003
107 N11 E23 03CBBC1	385035119240001	03/08/1993	019	580.	165.	580.	4881.	02/27/2002	140.22		S	NV003
107 N11 E23 10ACBB1	385001119223901	03/20/1998	019	385.	100.	385.	4840.	02/27/2002	96.40		S	NV003
107 N11 E23 12CBBB1	384949119204901	03/01/1999	019	585.	230.	585.	4790.	02/27/2002	52.23		S	NV003
107 N11 E23 15CBAA1	384855119234801	02/24/1994	019	510.	130.	510.	4820.	02/27/2002	48.88		S	NV003
107 N11 E23 23BCBB1	384830119220501	03/02/1999	019	420.	100.	420.	4800.	02/27/2002	52.06		S	NV003
107 N11 E23 24DDDD1	384743119204901	03/05/1997	019	760.	240.	760.	4760.	02/27/2002	15.66		S	NV003
107 N11 E24 08CCBC1	384935119194001	11/01/2001	019	19.	13.	18.	4759.	11/01/2001	8.10		T	USGS
107 N11 E24 32BBDD1	384637119192201	03/05/1997	019	580.	100.	580.	4830.	02/27/2002	74.07		S	NV003
107 N11 E24 32CBAD1	384619119192301	03/23/1992	019	140.			4845.	03/05/2002	79.71		S	USGS
107 N12 E23 24CB 1	385314119205901	03/11/1983	019	287.			4745.	03/05/2002	11.94		S	USGS
107 N12 E23 34ACCC1	385834119322301	02/27/2002	019	400.	100.	400.	4795.	02/27/2002	51.40		S	NV003
107 N12 E23 34BACB1	385205119225401	02/27/2002	019	423.	100.	423.	4795.	02/27/2002	48.17		S	NV003
107 N12 E23 36BDBD1	385141119212701	03/10/2000	019	252.	94.	252.	4766.	02/27/2002	18.63		S	NV003
107 N12 E23 36DCDC1	385109119210701	03/01/1999	019	495.	147.	495.	4782.	02/27/2002	62.35		S	NV003
107 N12 E24 31BACB1	385201119193601	03/02/1999	019	540.	270.	534.	4790.	02/27/2002	91.81		S	NV003
107 N12 E24 31DBBA1	385130119192001	03/19/1990	019	587.	197.	587.	4810.	02/27/2002	101.56		S	NV003
107 N13 E23 27ADCD1	385745119230501	03/10/2000	019	400.			4630.	02/27/2002	26.98		S	NV003
107 N13 E24 21BCCD1	385838119182701	04/13/1995	019	280.	260.	280.	4780.	02/27/2002	170.20		S	NV003
107 N13 E24 30AACC1	385759119200001	02/27/2002	019				4620.	02/27/2002	18.18		S	NV003
107 N13 E24 30ADDD1	385741119194701	03/02/1999	019	440.	27.	216.	4620.	02/27/2002	17.97		S	NV003
108 N11 E25 01ACCB1	385047119080401	03/05/1997	019	526.	150.	520.	4550.	02/26/2002	69.67		S	NV003
108 N11 E25 02CDDD1	385018119091101	03/18/1996	019	554.	132.	554.	4545.	02/26/2002	68.51		S	NV003
108 N11 E25 10DBCD1	384942119100801	03/09/1989	019	597.	183.	575.	4568.	02/26/2002	91.85		S	NV003
108 N11 E25 11AACC1	385003119085201	02/26/2002	019	256.	106.	256.	4562.	02/26/2002	91.76		S	NV003
108 N12 E25 11CACD1	385456119091901	02/26/2002	019	245.	100.	245.	4436.	02/26/2002	15.50		S	NV003
108 N12 E25 12CDAA1	385447119075901	02/26/2002	019	102.			4470.	02/26/2002	51.78		S	NV003
108 N12 E25 15DB 1	385410119100401	02/26/1992	019	310.	42.	310.	4440.	02/26/2002	16.74		S	NV003
108 N12 E25 21ACA 1	385332119110601	02/23/1994	019	100.			4460.	02/26/2002	25.73	R	S	NV003
108 N12 E25 23DCC 1	385255119090501	02/17/1994	019	325.	104.	325.	4460.	02/26/2002	15.23		S	NV003
108 N12 E25 27DAAA1	385225119094801	03/26/1986	019				4458.	02/26/2002	16.93		S	NV003
108 N12 E25 35DCDD2	385109119085601	03/18/1996	019				4510.	02/26/2002	29.60		S	NV003
108 N13 E25 01DBCC1	390057119080001	03/18/1998	019	570.	100.	570.	4365.	02/25/2002	17.84		S	NV003
108 N13 E25 10CDB 1	390004119103001	03/20/1990	019	328.	94.	328.	4375.	02/25/2002	10.30		S	NV003
108 N13 E25 11ACBD2	390026119090401	03/02/1995	019	435.	120.	432.	4371.	02/25/2002	13.33		S	NV003
108 N13 E25 13CCCD1	385904119083001	03/02/2001	019	306.	103.	306.	4380.	02/26/2002	11.98		S	NV003
108 N13 E25 13DDDD1	385903119073001	03/02/2000	019	280.	115.	280.	4370.	02/26/2002	14.47		S	NV003
108 N13 E25 23DDDC1	385809119084401	02/26/2002	019	308.	100.	308.	4394.	02/26/2002	15.45		S	NV003
108 N13 E25 25CDDA1	385722119080701	03/10/1993	019	45.			4425.	02/26/2002	30.25		S	NV003
108 N13 E25 25CDDA2	385717119080901	03/01/2000	019	106.	86.	106.	4415.	02/26/2002	23.00		S	NV003
108 N13 E25 26DDCC1	385720119085001	03/02/2000	019	160.	102.		4405.	02/26/2002	18.25		S	NV003
108 N13 E25 27DCCD2	385718119101301	03/02/2000	019	440.	95.	440.	4410.	02/26/2002	15.73		S	NV003
108 N13 E25 36DCCA1	385633119074201	02/26/1992	019	255.	40.	255.	4434.	02/26/2002	37.35		S	NV003
108 N13 E26 02BBCC1	390127119030001	02/24/1999	019	203.	64.	203.	4408.	02/25/2002	87.85		S	NV003
108 N13 E26 08CACA1	390011119060201	02/28/1995	019	130.	50.	120.	4350.	02/26/2002	21.00		S	NV003
108 N13 E26 09DBCC1	390006119043901	03/01/2000	019	166.	60.	160.	4380.	02/26/2002	62.44		S	NV003
108 N13 E26 31DDCD1	385628119063301	02/26/2002	019	172.	90.	172.	4460.	02/26/2002	66.32		S	NV003
108 N14 E25 03DDDC2	390558119094702	01/20/1983	019	604.	240.	604.	4320.	02/25/2002	18.32		S	NV003
108 N14 E25 04DACC1	390611119110301	02/28/2001	019	451.	97.	451.	4320.	02/25/2002	14.05		S	NV003
108 N14 E25 08ADDC1	390531119115901	03/09/1993	019	523.	89.	523.	4320.	02/25/2002	17.69		S	NV003

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108 N14 E25 08DCCC1	390507119122801	02/25/2002	019	348.	107.	348.	4410.	02/25/2002	23.00		S	NV003
108 N14 E25 10CCDA1	390509119103401	02/23/1994	019	460.	448.	460.	4332.	02/26/2002	18.95		S	NV003
108 N14 E25 18DCBB1	390415119132801	03/15/1996	019	73.			4345.	02/25/2002	48.68		S	NV003
108 N14 E25 27ACCD1	390225119100801	02/25/1992	019	320.	91.	320.	4351.	02/25/2002	16.25		S	NV003
108 N14 E25 29DCBC1	390233119122401	02/23/1999	019	150.	110.	150.	4390.	02/25/2002	55.98		S	NV003
108 N14 E25 34CBCA2	390152119104401	03/02/2000	019	415.	55.	415.	4365.	02/25/2002	22.05		S	NV003
108 N14 E26 03DCBC1	390606119032901	02/25/2002	019	160.	87.	123.	4330.	02/25/2002	7.36	V	S	NV003
108 N14 E26 03DCDD1	390601119031701	02/22/1994	019	160.	87.	123.	4333.	02/25/2002	10.35		S	NV003
108 N14 E26 15ADBB1	390436119030701	03/01/1991	019	158.	58.	158.	4328.	02/25/2002	13.82		S	NV003
108 N14 E26 26ADCC1	390255119021101	03/02/2001	019	157.	80.	157.	4400.	02/25/2002		O		NV003
108 N14 E26 26CCDD1	390231119024501	03/02/2001	019	250.	100.	250.	4415.	02/25/2002	92.20		S	NV003
108 N14 E26 31DCCC2	390137119065402	03/01/2000	019	400.	120.	400.	4356.	02/25/2002	14.60		S	NV003
108 N14 E26 32BCCC1	390201119062001	03/03/1997	019	120.	40.	120.	4345.	02/25/2002	11.45		S	NV003
108 N14 E26 32BCCC2	390201119062002	02/28/2001	019	249.	47.	247.	4345.	02/25/2002	11.52		S	NV003
108 N14 E26 32BDDD1	390203119055101	03/09/1993	019	104.	94.	103.	4350.	02/25/2002	14.79		S	NV003
108 N15 E25 34ACDD1	390715119095901	02/23/1994	019	370.	123.	370.	4310.	02/25/2002	8.53		S	NV003
110C N06 E31 33BABB1	382031118315901	02/25/1991	021	86.			5566.	03/01/2002	52.10		S	USGS
110C N06 E31 33BABB2	382033118315501	03/01/2002	021	126.	32.	132.	5566.	03/01/2002	81.45		S	USGS
118 N03 E36 02BCBB1	380854117565601	04/14/2000	009	129.			4580.	03/22/2002	41.90		S	USGS
125 N17 E34 36CCCA1	390234118070701	04/03/1995	001	288.			4388.	03/13/2002	255.57		S	USGS
127 N17 E35 36ADAA1	391749117585101	11/17/1981	001	502.			5250.	03/13/2002	109.11		S	USGS
133 N19 E37 28BCC 1	392903117495001	03/13/2002	001	183.			5360.	03/13/2002	148.94		S	USGS
139 N21 E51 36DCDB1	393808116105801	09/30/1982	011	1100.	63.	1100.	6080.	08/12/2002	38.40		T	USGS
153 N20 E53 10DDDD1	393613115585101	03/09/1998	011	200.	100.	200.	5956.	03/19/2002	157.10		S	NV003
154 N18 E55 31CABC1	392300115493001	05/03/1972	033	56.			5940.	03/20/2002		D		USGS
159 S10 E53 11 4	370451116024101	01/25/1993	023	1620.	117.	1625.	4114.7	09/10/2002	1425.50		V	USGS
159 S11 E53 13 4	365905116012002	07/26/2001	023	2230.	2090.	2230.	3935.6	10/11/2001	1510.10		V	USGS
159 S11 E53 13 4	365905116012002	07/26/2001	023	2230.	2090.	2230.	3935.6	07/22/2002	1509.70		V	USGS
176 N32 E60 29CCBA1	403639115133001	04/16/1986	007	202.			6000.	03/28/2002	11.80		S	USGS
177 N35 E62 27B 1	405310114574001	08/14/1960	007	286.			5657.	03/14/2002	12.15		S	USGS
179 N15 E64 07ACCB1	391100114492001	03/21/1968	033	200.			6535.	03/20/2002	36.62		S	USGS
179 N16 E64 06CBDC1	391634114484901	02/24/1988	033	306.	270.	306.	6407.	05/08/2002	270.00	Z	S	USGS
189A N41 E64 17DDCD1	412555114445001	04/18/1989	007				5170.	07/24/2002	62.20		T	USGS
210 S13 E63 11BACD1	365008114541101	07/23/2002	003	170.			2222.	10/04/2001	164.26		S	USGS
								01/31/2002	164.50		S	USGS
								07/22/2002	163.99		V	USGS
								07/23/2002	163.99		V	USGS
210 S14 E63 28ACDC1	364127114553001	03/31/1994	003	780.			2414.3	09/24/2002	591.10		V	USGS
212 S19 E61 19BC 1	361704115121901	07/11/2000	003	650.	250.	620.	2300.	10/19/2001	138.02		S	USGS
								01/18/2002	125.71		S	USGS
								03/07/2002	122.68		S	USGS
								05/02/2002	125.30		S	USGS
								07/24/2002	136.10		S	USGS
212 S19 E61 21DDB 1	361626115090701	10/01/1999	003	1300.	50.	1300.	2160.	10/15/2001	47.06		S	USGS
								01/15/2002	46.09		S	USGS
								04/30/2002	46.30		S	USGS
								07/24/2002	47.40		S	USGS
212 S19 E61 32CC 1	361456115111001	05/16/2000	003	650.	470.	610.	2190.	10/15/2001	127.86		S	USGS
								01/15/2002	126.22		S	USGS
								04/30/2002	124.00		S	USGS
								07/24/2002	124.70		S	USGS
212 S20 E61 11CDDC1	361305115073201	03/22/1994	003	62.	58.	62.	1920.	10/15/2001		W		USGS
212 S20 E61 13ABDB1	361232115061001	04/15/1997	003	1230.	102.	1039.	1857.	10/15/2001	42.57		S	USGS
								01/15/2002	41.97		S	USGS
								03/05/2002	41.50		S	USGS
								05/01/2002	46.20		S	USGS
								07/24/2002	41.60		S	USGS
212 S20 E61 27BDAA1	361102115083601	08/08/1996	003	15.	11.	15.	2010.	10/16/2001		W	S	USGS

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	First Available Water Level	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method	Reporting Agency
212 S20 E62 05CAAA1	361400115040901	11/13/1998	003	1000.	500.	940.	1869.	10/15/2001	86.89		S	USGS
								01/15/2002	81.00		S	USGS
								03/05/2002	78.57		S	USGS
								05/01/2002	83.40		S	USGS
								07/24/2002	83.40		S	USGS
212 S21 E61 04ABC 1	360921115093601	12/09/1991	003	17.	13.	14.	2047.	10/16/2001		W		USGS
212 S21 E61 22AB 1	360639115083501	01/15/2002	003	23.	17.5	22.5	2026.	10/16/2001	9.00		S	USGS
								01/15/2002	9.21		S	USGS
								04/30/2002	9.49		S	USGS
								07/23/2002	9.16		S	USGS
227A S15 E49 03 1	364015116265301	06/17/2000	023	469.	352.	475.	2687.50	10/15/2001	366.60		T	USGS
227A S15 E49 03 2	364014116265301	06/21/2000	023	1422.	405.	1456.	2686.65	10/15/2001	349.80	S	T	USGS
227A S15 E49 07 1	364011116295001	04/18/2000	023	270.	191.	275.	2580.31	10/15/2001	210.00		T	USGS
227A S15 E49 09 2	363940116275501	03/04/2001	023	2685.	2685.	3075.	2628.90	10/15/2001	291.10		T	USGS
227A S15 E49 12 1	363925116241501	04/27/2000	023	496.	395.	496.	2700.20	10/15/2001	344.30		T	USGS
227A S15 E49 12 2	363925116241401	05/23/2000	023	849.	718.	850.	2700.62	10/15/2001	326.60		T	USGS
227A S15 E50 08 2	364011116223401	01/10/2001	023	499.	366.	489.	2752.82	10/15/2001	379.00		T	USGS
229 S14 E48 22 1	364332116332201	03/27/2001	023	45.	26.	53.	2745.67	10/15/2001	21.80		T	USGS
230 S14 E48 32 2	364137116351001	01/17/2001	023	390.	318.	390.	2541.70	10/23/2001	169.80		T	USGS
230 S14 E48 32 3	364138116351101	01/03/2001	023	400.	316.	400.	2541.50	10/23/2001	169.20		T	USGS
230 S14 E48 32 4	364139116351101	01/03/2001	023	250.	160.	250.	2540.88	10/23/2001	175.70		T	USGS
230 S17 E50 10CAD 1	362906116195101	07/20/1998	023	157.	7.	157.	2265.	10/22/2001	3.88		T	USFWS
								11/19/2001	3.50		T	USFWS
								12/18/2001	3.09		T	USFWS
230 S17 E50 28DAA 1	362648116201401	06/24/1997	023	450.	90.	450.	2215.	10/22/2001	5.25		T	USFWS
								12/18/2001	4.89		T	USFWS
								01/22/2002	4.69		T	USFWS
230 S18 E51 06AAB 1	362529116160501	05/31/1995	023	265.			2433.	10/24/2001	74.51		T	USFWS
								12/19/2001	74.48		T	USFWS
								01/23/2002	74.53		T	USFWS

AQUIFER VULNERABILITY PROJECT

This project will evaluate the susceptibility and vulnerability of ground water to anthropogenic contamination throughout Nevada. Existing water-quality data and information on variables that could be related to water quality (e.g. land use, depth to ground water) are being compiled from many sources and input to a database and geographic information system (GIS). Water-quality measurements in the following table were made in cooperation with the Nevada Department of Environmental Protection (NDEP) to check the accuracy of and supplement existing information. The database and GIS will be used in a statistical evaluation of aquifer susceptibility and vulnerability. Locations of the following sites are shown in figures 30 and 32.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
384714119204701	107 N11 E24 30CBBB1	03-28-02	1345	ENVIRONMENTAL	--	28.	4770.
384811119193101	107 N11 E24 20BCDC1	03-28-02	1200	ENVIRONMENTAL	--	25.	4760.
384935119194001	107 N11 E24 08CCBC1	03-28-02	1300	ENVIRONMENTAL	--	19.	4759.
413011117502101	033A N42 E37 20CAAD1 NV Dept of Agrcltr Well 3	05-08-02	1100	ENVIRONMENTAL	--	90.	4203.
413024117502001	033A N42 E37 20BDAD1 NV Dept of Agrcltr Well 2	05-08-02	1300	ENVIRONMENTAL	--	85.	4205.
413043117505201	033A N42 E37 20BBBB1 NV Dept of Agrcltr Well 1	05-08-02	1200	ENVIRONMENTAL	--	85.	4195.
415446116071801	037 N46 E52 03CADA1 MW-5	09-25-02	1630	ENVIRONMENTAL	24.62	40.	5410.
415622116060801	037 N47 E52 26DCBC1 MW-1	09-25-02	1500	ENVIRONMENTAL	9.71	37.	5390.
415644116114501	037 N47 E51 25ACDB1 MW-3	09-25-02	1010	ENVIRONMENTAL	26.39	41.	5360.
415750116091601	037 N47 E52 20AACA1 MW-2	09-25-02	1310	ENVIRONMENTAL	15.76	38.	5360.
415824116104301	037 N47 E52 18DBBB1 MW-4	09-24-02	1615	ENVIRONMENTAL	2.68	41.	5330.
415926116105001	037 N47 E52 07BDAD1 MW-6	09-24-02	1400	ENVIRONMENTAL	25.42	40.	5345.
420005116104901	037 S16 E02 26DADC1 MW-7	09-24-02	1030	ENVIRONMENTAL	3.93	40.	5318.

Date	FLOW RATE (G/M) (00059)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
03-28-02	--	--	--	--	--	7.1	1770	--	--	1290	<.04	.71	--
03-28-02	--	--	--	--	--	7.1	762	--	--	501	<.04	.19	--
03-28-02	--	--	--	--	--	7.2	593	--	--	373	<.04	.20	--
05-08-02	--	--	--	--	--	7.2	921	--	--	582	E.04	.29	--
05-08-02	--	--	--	--	--	7.3	918	--	--	623	<.04	.21	--
05-08-02	--	--	--	--	--	6.9	240	--	--	308	<.04	<.10	--
09-25-02	.50	2.5	629	5.0	57	8.0	539	19.0	12.1	--	.007	--	.05
09-25-02	.73	.4	629	.2	2	7.6	286	18.5	11.7	--	.014	--	.08
09-25-02	.33	.7	629	7.9	86	7.7	445	9.0	10.5	--	.006	--	.05
09-25-02	.54	.5	629	5.0	58	7.5	236	16.5	13.3	--	.005	--	--
09-24-02	1.4	2.5	630	2.5	27	7.2	241	26.0	9.9	--	.005	--	.03
09-24-02	.40	1.5	630	7.5	85	7.2	257	27.0	12.4	--	.005	--	.04
09-24-02	.34	.0	630	.2	2	6.7	371	21.5	8.9	--	.005	--	.07

Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	Date	Time	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
03-28-02	1345	5.80	<.008	.11	09-25-02	1630	.262	.094	.104
03-28-02	1200	3.13	E.004	.20	09-25-02	1500	.001	.066	.038
03-28-02	1300	.14	<.008	.07	09-25-02	1010	.256	.094	.109
05-08-02	1100	23.7	E.007	<.02	09-25-02	1310	.095	.067	.072
05-08-02	1300	23.7	E.004	.09	09-24-02	1615	.108	.083	.090
05-08-02	1200	7.12	<.008	.06	09-24-02	1400	.114	.134	.145
					09-24-02	1030	.001	.059	.064

Remark codes used in this report:
< -- Less than
E -- Estimated value

Water Level Status--D, Site was dry (no water level was recorded); P, site was being pumped; X, water level was affected by stage in nearby surface-water site.
Water Level Method--S, steel tape; T, electric tape.
The following sites are shown in figures 30 and 32.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
002 N45 E28 32CB 1	414702118475701	205.	4410.	06/27/2002	153.5		T
008 N43 E21 34D 1	413548119361201	160.	5710.	06/26/2002	83.0		T
009 N40 E20 03D 1	412422119495401	185.	5700.	06/26/2002	149.6	P	T
009 N43 E19 33BACC1	413630119520001	70.	5544.	06/26/2002	12.7		T
012 N45 E19 02A 1	415056119485701	45.	5680.	06/26/2002	23.1		T
012 N45 E19 14C 1	414847119494101	43.	5680.	06/26/2002	13.2		T
015 N40 E19 13CCBD1	412250119475801	234.	5716.	06/26/2002	162.2	P	T
016 N36 E20 33AADA1	405730119285901	213.	4828.	06/25/2002	13.7		T
016 N37 E18 02B 1	410625119562401	35.	4670.	06/25/2002	15.4		T
016 N37 E19 19C 1	410320119541801	13.	4680.	06/25/2002	4.5		T
021 N32 E20 32DADC1	403614119445401	117.	3900.	06/25/2002	11.0		T
036 N39 E51 27DD 1	411425116133001	11.	5863.	06/28/2002	5.7		T
036 N39 E52 03CD 1	411814116064701	172.	5820.	06/28/2002	117.1		T
037 N43 E55 19BBCC1	413644115494901	151.	6320.	07/23/2002	38.2		T
037 N46 E52 03CADA1	415446116071801	40.	5410.	09/25/2002	24.62		S
037 N47 E51 25ACDB1	415644116114501	41.	5360.	09/25/2002	26.39		S
037 N47 E52 07BDAD1	415926116105001	40.	5345.	09/24/2002	25.42		S
037 N47 E52 18CBBB1	415824116104301	41.	5330.	09/24/2002	2.69		S
037 N47 E52 20AADB1	415750116091601	38.	5360.	09/25/2002	15.76		S
037 N47 E52 26DCBD1	415622116060801	37.	5390.	09/25/2002	9.71		S
037 S16 E02 28DADB1	420005116104901	40.	5318.	09/24/2002	3.93		S
038 N43 E57 10DBAD1	414236115313501	108.	6020.	07/23/2002	23.2	X	T
038 N44 E57 35CC 1	414421115310701	23.0	7500.00	07/23/2002	4.29		S
040 N45 E64 07DA 1	415440114460701	410	5500.00	07/24/2002	263.85		S
042 N40 E61 32BCBA1	411851115065201	167.	5764.	07/24/2002	126.34		S
043 N35 E59 03ACAD1	405658115180301	180	5519.	07/22/2002	78.24	P	S
043 N36 E59 26DCDD1	405812115165101	30.	5540.	07/22/2002	8.8		T
043 N59 E35 03CDDD1	405624115182601		5527.	07/22/2002	97.2		T
044 N36 E57 14CBAC1	410023115311101		5300.	07/22/2002	70.6		T
044 N39 E54 05DACA1	411749115544301	295	6278.	07/23/2002	123.5		T
045 N33 E57 10ABBB1	404555115320601	162.	5680.	07/25/2002	83.3		T
045 N34 E57 30DABB1	404809115351601	231.	5500.	07/25/2002	206.30		S
048 N33 E56 08CAAD1	404521115395801	12.	5290.	03/27/2002	7.67		S
				07/25/2002	6.8		T
051 N33 E52 04DCCD1	404605116074901	175.	4995.	07/25/2002	62.5		T
063 N38 E46 02BCDD1	411157116451001	500.	5195.	06/28/2002	82.48		S
063 N39 E47 20DBAA1	411433116410701	85.	5225.	06/28/2002	16.9		T
067 N43 E42 10CCB 1	413658117134301	503.	5689.	06/27/2002	366.7		T
107 N11 E24 08CCBC1	384935119194001	19.	4759.	11/01/2001	8.1		T
119 N05 E35 09CBAC1	381813118060801	68.0	4438.	08/15/2002	40.52		S
121A N06 E35 05CBD 1	382415118063801	106	4545.	08/05/2002	95.3		T
134 N18 E40 23DDDC1	392419117264401	106	6105.00	08/12/2002	62.14		S
137A N03 E41 07CC 1	380723117252001	196.	4922.	08/15/2002	44.4		T
137B N17 E45 03BDBC1	392145116541301	210.	5725.	08/12/2002	101.53		S
138 N21 E46 09D 2	394200116480001	172.	6000.	08/12/2002	28.09		S
139 N21 E50 23AA 1	394036116183401	139.	6191.	08/12/2002	34.68		S
140A N18HE47 08BBDC1	392654116421401	108.	6298.	08/12/2002	84.37		S
141 N03 E44 35DDD 1	380353117000201		5370.	08/15/2002		D	
149 N03 E48 32BAAC1	380400116380001	141.	5573.	08/15/2002	108.7		T
151 N19 E51 33CB 1	392847116143901	160.	6234.	08/13/2002	106.0		T
154 N18 E55 16BB 1	392610115474201	143.	5939.	08/13/2002	79.81		S
154 N20 E57 20DACD1	393509115341901		6066.	08/03/2002	91.94		S
155A N16 E54 20BAB 1	391456115551201		6020.	08/13/2002	79.39		S
155C N08 E53 33 2	383023116012201	6445.	5797.	08/15/2002	489.7		T
173B N09 E56 20CD 1	383712115420301	198.	4905.	08/15/2002	109.4		T
175 N20 E58 14BDAB1	393624115244601	135	6145.	08/13/2002	119.11		S
176 N25 E58 27BAAA1	400131115254501	150.	6123.	07/14/2002	124.0		T
				08/21/2002	123.8		T

AQUIFER VULNERABILITY PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
176 N25 E58 29ABDC3	400119115274802	350.	6132.	07/12/2002	130.0		T
				07/15/2002	130.0		T
				08/20/2002	129.3		T
178B N20 E61 06DACA1	393746115083901		6358.	08/13/2002	155.57		S
179 N22 E64 04DCCC1	394751114442901	150.	6086.	08/14/2002	138.48		S
179 N24 E64 15CAA 1	395655114433101	65.	5899.	08/14/2002	33.89		S
184 N16 E66 36DBAD1	391224114293601		5858.	08/14/2002	208.44		S
184 N19 E66 14AB 1	393055114310001	815.	5700.	08/14/2002	43.98		S
185 N23 E69 07DCBD1	395245114125901		5800.	08/14/2002	275.5		T
185 N24 E69 17AAAA1	395750114112201		5846.	08/14/2002	319.09		S
186B N28 E67 33BADC1	401535114251301	63.0	5449.	08/14/2002	21.34		S
186B N29 E68 06CBAA1	402446114205101	178	5603.00	08/14/2002	102.97		S
188 N37 E64 14ADDD1	410524114420201	285.	5790.	07/25/2002	158.6		T
189A N41 E63 10CD 1	412701114492901	92.	5870.	07/24/2002	-0.60		S
189B N41 E65 35ADC 1	412337114342901	250.	5512.	07/24/2002	47.7		T
189C N42 E68 29B 1	412900114132501	96.0	5100.	07/24/2002	43.36		S
189C N42 E68 35A 1	412835114120501	320	5100.	07/24/2002	30.2		T
189D N39 E68 25AD 1	411421114131201	158	4937.	07/24/2002	117.2		T
189D N40 E68 25ACDB1	411931114133101	450.	5150.	07/24/2002	163.5		T
207 N12E62 17ACAD1	385411115012801	119.	5597.	08/15/2002	88.05		S

Water-quality measurements in the following table were made as part of the Carson River Mercury Superfund Monitoring Study to determine loads into and out of Lahontan Reservoir. All mercury and methylmercury analyses were performed by USGS Mercury Research Laboratory in Middleton, Wisconsin using methods described in Olson and others (1997) and Olson and DeWild (1999). Samples were collected in 250-ml glass bottles, filtered through a 0.45-µm pore-size capsule filter and chilled to 4° C. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data." The following sites are shown in figure 17.

WATER-QUALITY DATA, WATER YEAR 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)
10312020	CARSON RIVER NEAR SILVER SPRINGS, NV	11-28-01	0945	**FIELD BLANK**	--	--	--
		11-28-01	1100	ENVIRONMENTAL	125	660	11.2
		12-11-01	1015	**FIELD BLANK**	--	--	--
		12-11-01	1115	ENVIRONMENTAL	150	650	11.3
		01-15-02	1200	ENVIRONMENTAL	214	649	11.5
		01-15-02	1200	**FIELD BLANK**	--	--	--
		02-21-02	1030	**FIELD BLANK**	--	--	--
		02-21-02	1150	ENVIRONMENTAL	150	665	9.7
		03-20-02	1030	**FIELD BLANK**	--	--	--
		03-20-02	1200	ENVIRONMENTAL	196	660	9.9
		03-27-02	1020	**FIELD BLANK**	--	--	--
		03-27-02	1130	ENVIRONMENTAL	213	655	8.9
		03-27-02	1140	**SPLIT REPLICATE**	*213*	*655*	*8.9*
		04-05-02	0920	**FIELD BLANK**	--	--	--
		04-05-02	1045	ENVIRONMENTAL	335	652	8.7
		04-11-02	1110	**FIELD BLANK**	--	--	--
		04-11-02	1215	ENVIRONMENTAL	679	660	8.6
		04-17-02	1200	**FIELD BLANK**	--	--	--
		04-17-02	1200	ENVIRONMENTAL	1030	660	9.9
		04-22-02	1145	**FIELD BLANK**	--	--	--
		04-22-02	1340	ENVIRONMENTAL	492	659	9.3
		05-01-02	0955	**FIELD BLANK**	--	--	--
		05-01-02	1125	ENVIRONMENTAL	425	656	9.6
		05-07-02	1025	**FIELD BLANK**	--	--	--
		05-07-02	1145	ENVIRONMENTAL	567	652	8.2
		05-20-02	1200	**FIELD BLANK**	--	--	--
		05-20-02	1320	ENVIRONMENTAL	1340	651	8.7
		05-31-02	1020	**FIELD BLANK**	--	--	--
		05-31-02	1140	ENVIRONMENTAL	1060	654	7.8
		07-11-02	0900	**FIELD BLANK**	--	--	--
		07-11-02	1000	ENVIRONMENTAL	17	657	7.2
		08-29-02	1030	ENVIRONMENTAL	3.1	655	8.0
		09-17-02	1320	ENVIRONMENTAL	2.1	658	8.2
10312150	CARSON RIVER BELOW LAHONTAN RESERVOIR NEAR FALLON, NV	10-23-01	1035	**FIELD BLANK**	--	--	--
		10-23-01	1145	ENVIRONMENTAL	475	660	--
		04-03-02	1200	ENVIRONMENTAL	364	660	11.6
		04-12-02	1245	ENVIRONMENTAL	466	665	9.9
		05-09-02	1145	ENVIRONMENTAL	601	659	9.6
		07-10-02	1200	ENVIRONMENTAL	726	662	6.0
		08-28-02	1025	**FIELD BLANK**	--	--	--
		08-28-02	1230	ENVIRONMENTAL	692	656	7.2
		08-28-02	1240	**SPLIT REPLICATE**	*692*	*656*	*7.2*
		09-17-02	1025	**FIELD BLANK**	--	--	--
		09-17-02	1130	ENVIRONMENTAL	509	658	7.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	MERCURY WATER, FLTRD (NG/L) (50287)	MERCURY WATER, UNFLTRD (NG/L) (50286)	MERCURY METHYL, WATER, FLTRD REC, (NG/L) (50285)	MERCURY METHYL, WATER, UNFLTRD REC, (NG/L) (50284)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS CHARGE SUS-PENDED (T/DAY) (80155)
11-28-01	--	--	--	--	--	*<.04*	--	*<.04*	--	--	--	--
11-28-01	95	8.0	341	.0	2.5	24.8	316	.73	1.25	37	26	8.8
12-11-01	--	--	--	--	--	*1.89*	*.43*	*<.04*	--	--	--	--
12-11-01	99	8.1	390	3.5	3.0	20.9	125	.95	1.04	32	15	6.1
01-15-02	99	8.1	324	.5	2.5	14.6	151	.14	1.08	33	14	8.1
01-15-02	--	--	--	--	--	*.34*	--	*<.04*	--	--	--	--
02-21-02	--	--	--	--	--	*.60*	--	*<.04*	--	--	--	--
02-21-02	100	8.1	388	11.5	10.5	18.3	244	1.52	1.95	74	9	3.6
03-20-02	--	--	--	--	--	*.33*	--	*<.04*	--	--	--	--
03-20-02	102	8.0	328	14.0	10.0	13.5	255	1.17	2.15	44	14	7.4
03-27-02	--	--	--	--	--	*.64*	*.98*	*<.04*	--	--	--	--
03-27-02	99	8.0	308	19.0	13.0	16.8	361	1.66	3.07	79	12	6.9
03-27-02	99	8.0	308	19.0	13.0	16.6	342	1.92	3.10	--	--	--
04-05-02	--	--	--	--	--	*.23*	--	*<.04*	--	--	--	--
04-05-02	102	7.9	258	18.0	15.5	25.6	2510	2.43	7.57	80	79	71.5
04-11-02	--	--	--	--	--	*.70*	--	*<.04*	--	--	--	--
04-11-02	98	7.7	174	20.0	14.5	28.6	2900	1.86	.66	79	113	207
04-17-02	--	--	--	--	--	*.13*	--	*<.04*	--	--	--	--
04-17-02	98	7.4	135	6.5	8.5	24.9	2420	.73	1.11	63	206	573
04-22-02	--	--	--	--	--	*.53*	--	*<.04*	--	--	--	--
04-22-02	105	7.8	217	25.0	14.1	22.6	1120	1.39	3.02	57	63	83.7
05-01-02	--	--	--	--	--	*.38*	--	*<.04*	--	--	--	--
05-01-02	100	7.9	232	13.5	10.7	22.5	751	1.37	2.60	57	35	40.2
05-07-02	--	--	--	--	--	*.63*	--	*<.04*	--	--	--	--
05-07-02	97	7.9	186	18.5	16.0	24.5	1960	1.95	5.57	72	107	164
05-20-02	--	--	--	--	--	*.56*	--	*<.04*	--	--	--	--
05-20-02	95	7.6	110	10.5	12.5	24.6	3440	.80	4.25	23	735	2660
05-31-02	--	--	--	--	--	*.39*	--	*<.04*	--	--	--	--
05-31-02	102	7.8	135	30.0	21.0	25.3	2940	1.88	6.05	63	172	490
07-11-02	--	--	--	--	--	*.77*	*.35*	*<.04*	--	--	--	--
07-11-02	99	7.7	539	32.5	23.5	17.1	232	1.13	1.98	78	6	.28
08-29-02	104	7.9	522	21.0	20.5	27.3	106	3.59	4.90	30	7	.06
09-17-02	112	8.2	525	--	22.8	24.2	115	1.51	2.59	74	2	.01
10-23-01	--	--	--	--	--	*.85*	--	*<.04*	--	--	--	--
10-23-01	--	8.1	294	17.0	14.5	4.71	287	.08	.19	96	20	25.7
04-03-02	115	8.2	315	20.5	8.5	4.13	70.3	.07	.19	65	8	7.9
04-12-02	105	8.3	289	17.0	11.5	5.07	66.2	.08	.20	79	10	12.6
05-09-02	104	8.2	264	21.0	12.5	4.17	84.4	.15	.42	85	17	27.6
07-10-02	76	7.8	270	41.0	19.4	8.35	180	.10	.26	86	24	47.0
08-28-02	--	--	--	--	--	*23.7*	--	*<.04*	--	--	--	--
08-28-02	93	8.0	274	31.5	20.8	6.53	162	E.08	.19	88	16	29.9
08-28-02	*94*	*8.0*	*274*	*31.5*	*20.8*	*7.60*	*167*	*.10*	*.20*	--	--	--
09-17-02	--	--	--	--	--	*.18*	--	*<.04*	--	--	--	--
09-17-02	94	8.2	278	--	18.9	6.08	238	.06	.14	92	16	22.0

Remark codes used in this report:
< -- Less than
E -- Estimated value

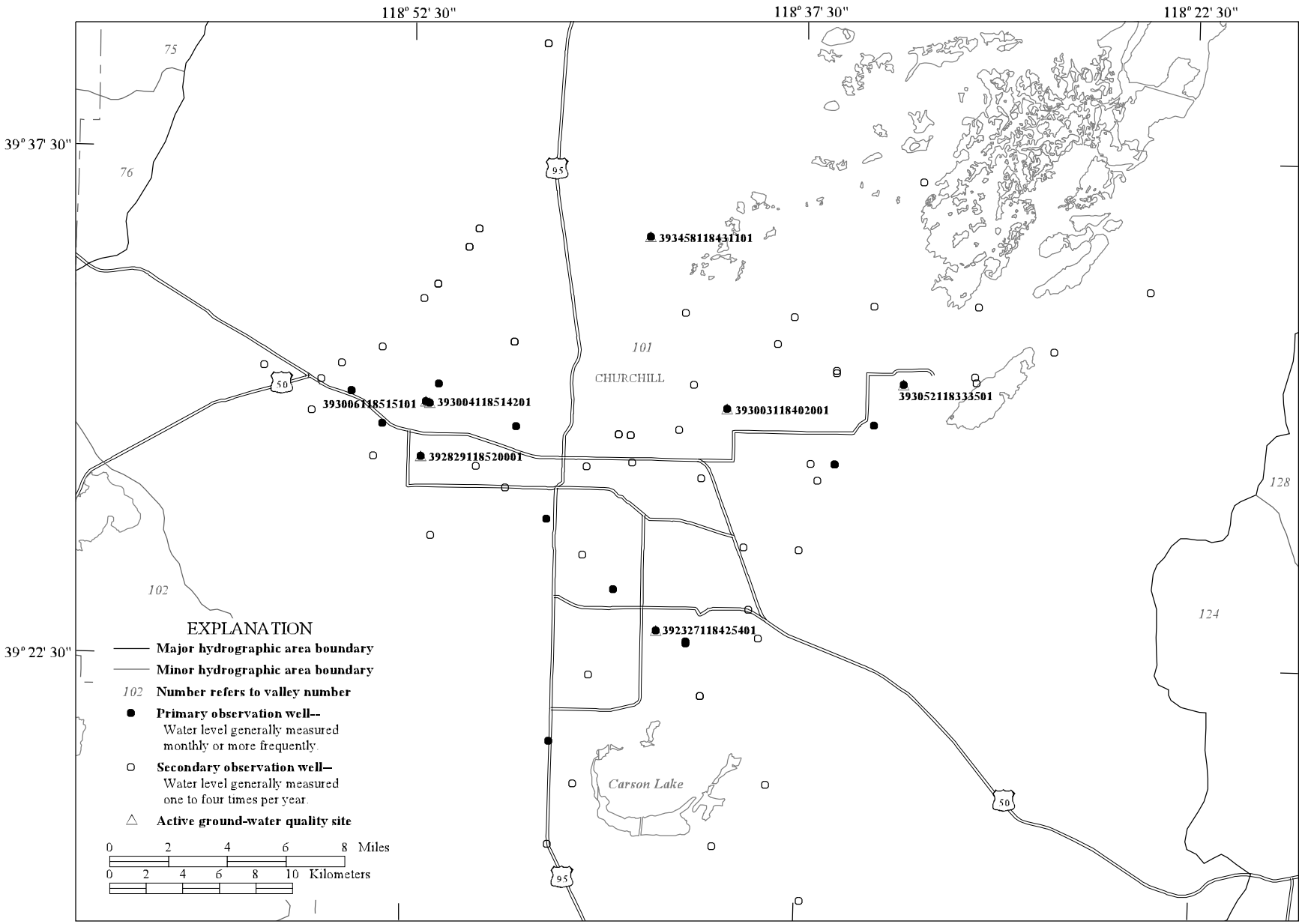


Figure 33. Ground-water sites, western Churchill County.

CARSON DESERT

392825118470501. Local number, 101 N19 E28 36AABC1.

LOCATION.--Lat 39°28'25", long 118°47'05", Hydrologic Unit 16050203, in Churchill County.
Owner: City of Fallon.

AQUIFER.--Volcanic rocks of Quaternary age.

INSTRUMENTATION.--Water-level recorder August 1983 to June 1997, hourly; July 1997 to July 1998, four time per hour; August 1998 to current year, hourly.

DATUM.--Elevation of land-surface datum is 3,962 ft above NGVD of 1929. Measuring point: Edge of recorder shelf, 0.31 ft above land-surface datum.

REMARKS.--Mori Well.

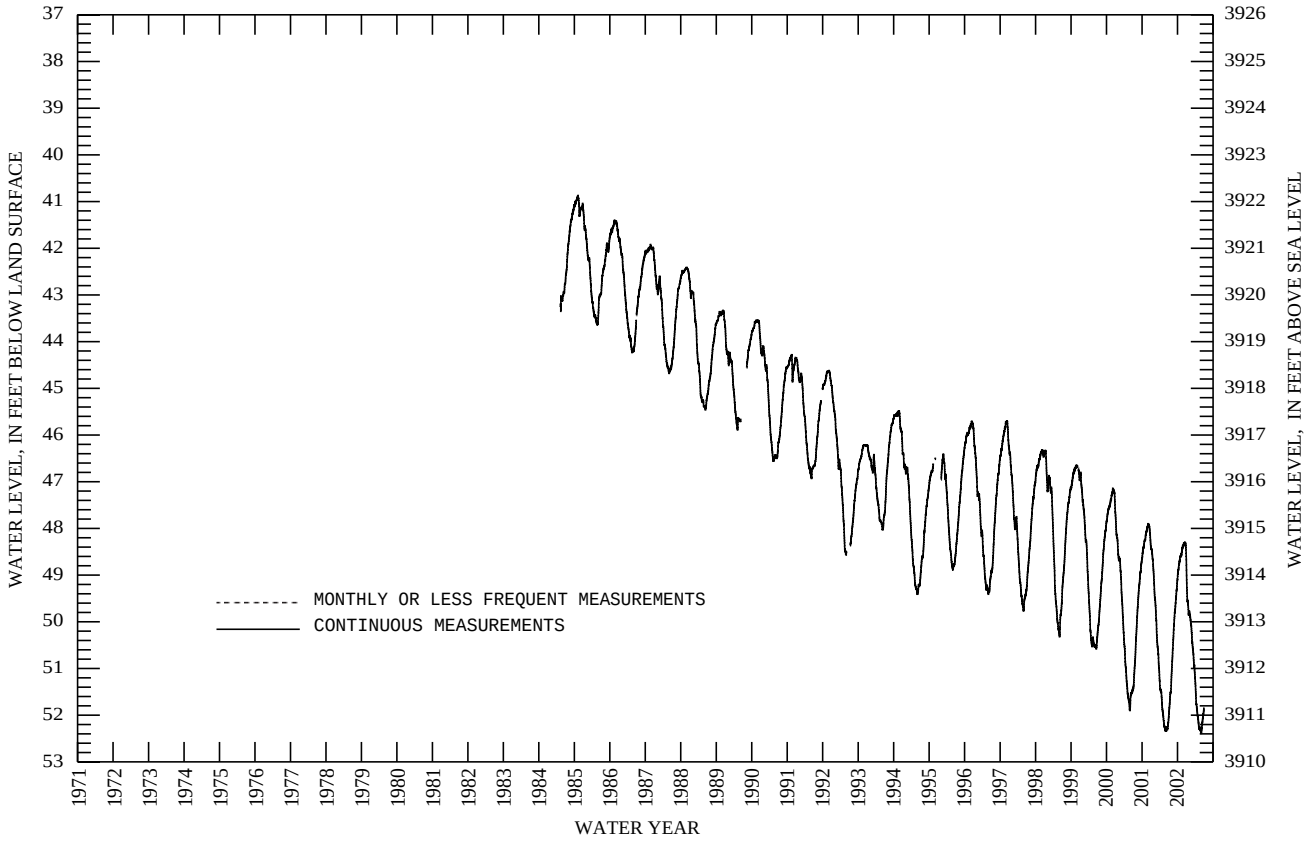
PERIOD OF RECORD.--1971, 1972, 1974; 1976 to August 1983, monthly; August 1983 to September 1986, hourly (unpublished and available in the files of the U. S. Geological Survey); September 1986 to June 1997, hourly; July 1997 to July 1998, four times per hour; August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.30 ft below land-surface datum, October 9, 1972; lowest recorded, 52.40 ft below land-surface datum, September 1-3, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	51.94	50.92	49.76	48.97	48.58	48.34	49.11	49.83	50.53	51.38	52.16	52.32
10	51.81	50.73	49.66	48.89	48.58	48.35	49.45	49.87	50.62	51.64	52.29	52.20
15	51.64	50.50	49.52	48.78	48.49	48.32	49.54	49.96	50.78	51.77	52.26	52.13
20	51.52	50.30	49.35	48.72	48.42	48.32	49.64	50.06	50.97	51.89	52.29	52.02
25	51.48	50.07	49.27	48.66	48.40	48.35	49.84	50.20	51.03	52.00	52.32	51.96
EOM	51.14	49.92	49.09	48.62	48.36	48.60	49.82	50.44	51.20	52.06	52.38	51.84

WTR YR 2002 HIGH 48.29 MAR 17 LOW 52.40 SEP 1-3



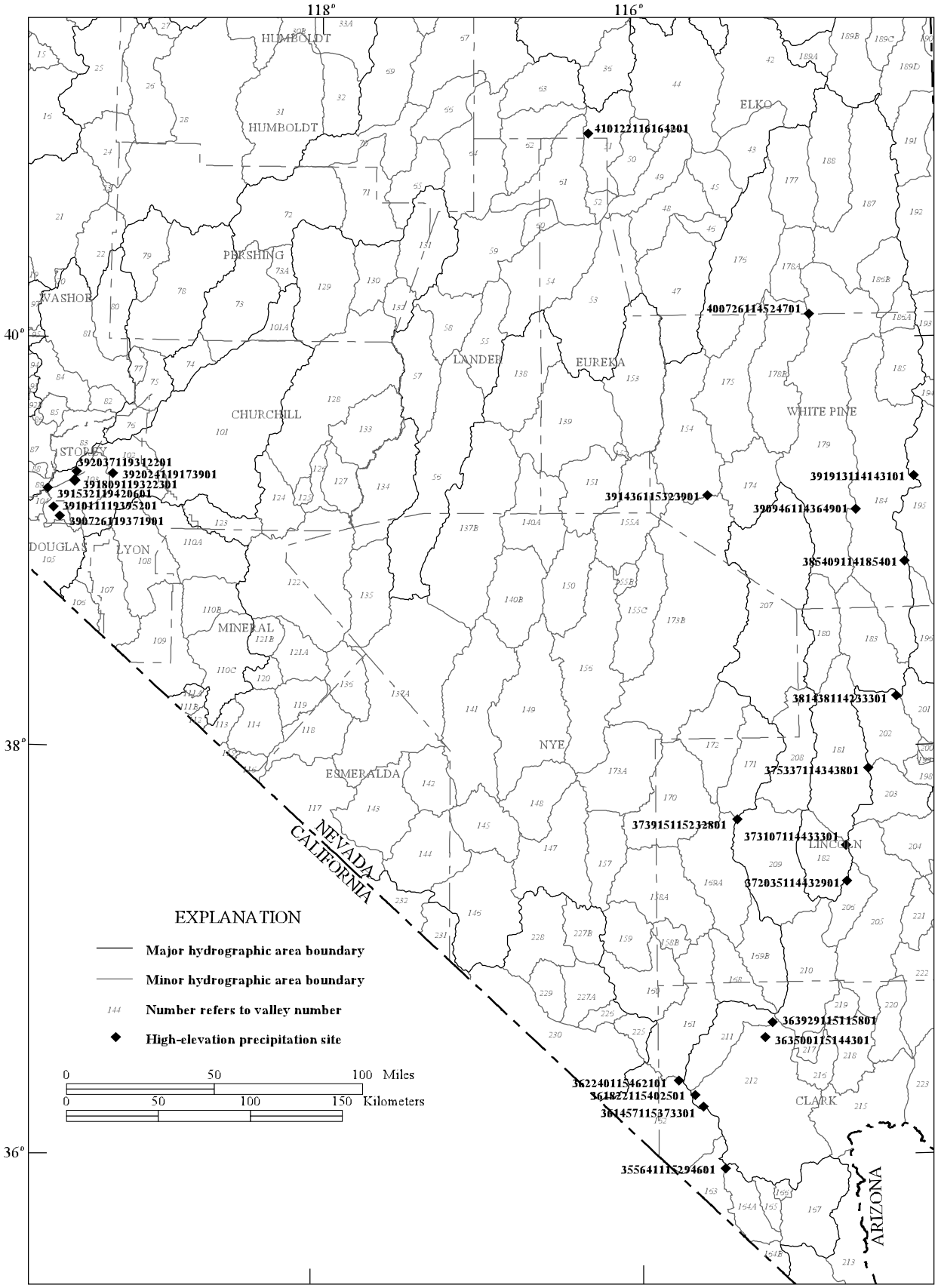


Figure 34. High-elevation precipitation sites listed in this report.

MISCELLANEOUS PRECIPITATION SITES

DAYTON VALLEY

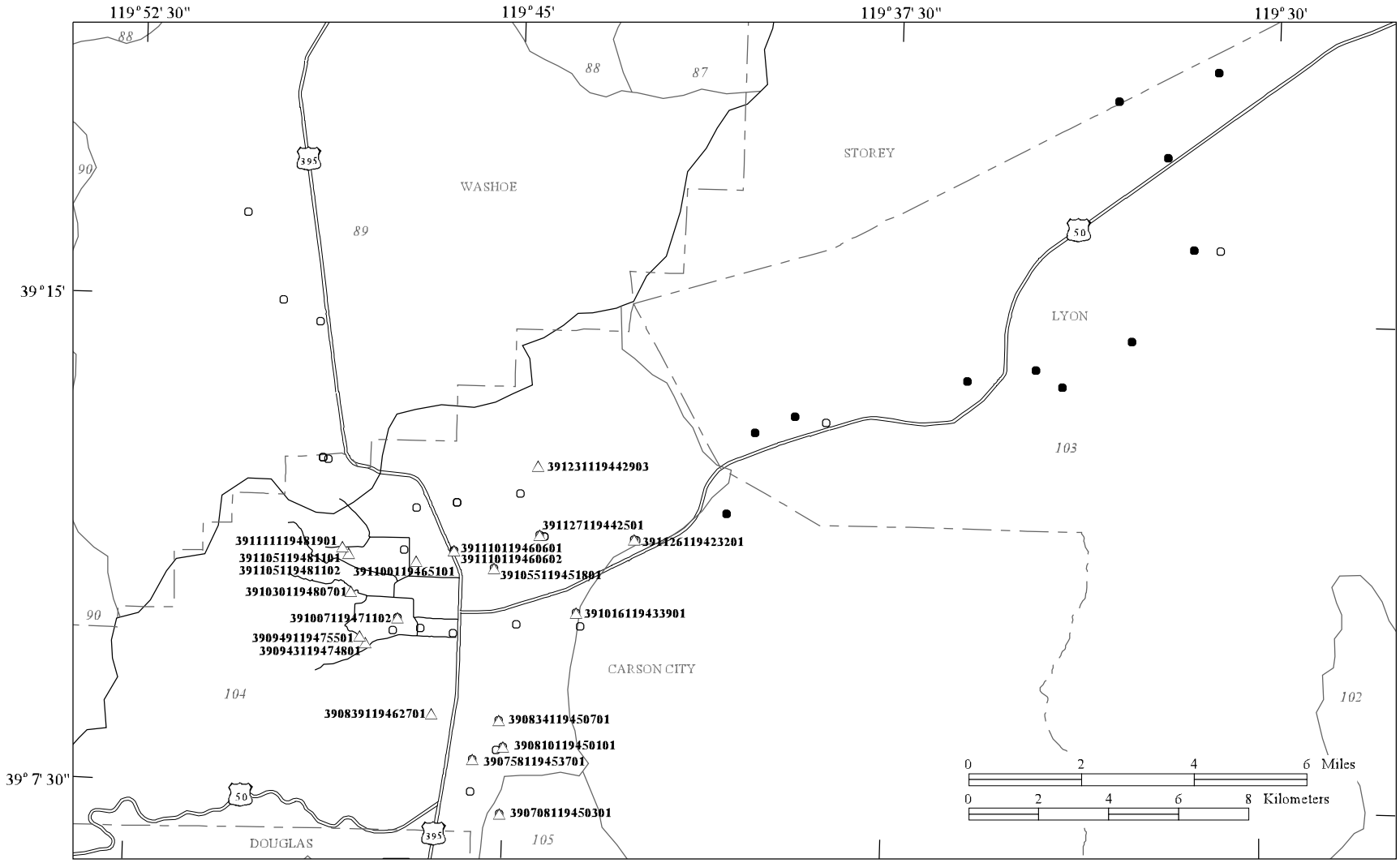
Precipitation data were collected in the Dayton Valley Hydrographic Area as part of a cooperative study with the Carson Water Subconservancy District. The purpose of the study is to refine existing maps showing the distribution of annual precipitation. The following sites are shown in figure 34.

Station Name and Number	Location and Drainage Area	Period	Precipitation (inches)
Basalite Knob 392037119312201	Lat 36°20'37", long 119°31'22", in $SE^1/_4$ $NW^1/_4$ sec. 16, T.17N., R.22E., Storey County, Hydrologic Unit 16050202, 8.0 mi northeast of Dayton, elevation 5,580 ft.	09/25/2001 to 10/07/2002	7.26
Brunswick Canyon 390726119371901	Lat 39°07'26", long 119°37'19", in $NE^1/_4$ $SE^1/_4$ sec.33, T.15N.,R.20E., Carson City, Hydrologic Unit 16050202, 8.2 mi southeast of Carson City, elevation 6,370 ft.	09/26/2001 to 10/07/2002	6.30
Brunswick Reservoir 391011119395201	Lat 39°10'11", long 119°39'52", in $NW^1/_4$ $NE^1/_4$ sec 18, T.15N., R.21E., Carson City, Hydrologic Unit 16050202, 5.4 mi east of Carson City, elevation 5,100 ft.	10/03/2001 to 10/07/2002	4.74
McClellan Peak 391532119420601	Lat 39°15'32", long 119°42'06", in $NE^1/_4$ $NW^1/_4$ sec 14, T.16N.,R.20E., Storey County, Hydrologic Unit 16050202, 3.2 mi northeast of Carson City, elevation 7,410 ft.	09/26/2001 to 10/07/2002	6.72
Below Six Mile Canyon 391809119322301	Lat 39°18'09", long 119°32'23", in $NE^1/_4$ $NW^1/_4$ sec 23, T.17N., R.22E., Lyon County, Hydrologic Unit 16050202, 5.2 mi northeast of Dayton, elevation 4,370 ft.	10/01/2001 to 09/30/2002	5.99
Churchill Butte 392024119173901	Lat 39°20'24", long 119°17'39", in $SW^1/_4$ $NE^1/_4$ sec 16, T.17N., R.24E., Lyon County, Hydrologic Unit 16050202,	09/25/2001 to 10/08/2002	3.00

HUMBOLDT RIVER BASIN

High-elevation precipitation data have been collected at this site for the Carlin Trend Study. Location of following site is shown in figure 34.

Station Name	Site Identification	Latitude	Longitude	Elevation	Period	Precipitation (Inches)
Little Jack Creek	410122116164201	40°59'33"	117°19'00"	7,400	09-10-01 to 09-19-02	16.1



EXPLANATION

- **Major hydrographic area boundary**
- **Minor hydrographic area boundary**
- *103* **Number refers to valley number**
- ● **Primary observation well--** Water level generally measured monthly or more frequently.
- ○ **Secondary observation well--** Water level generally measured one to four times per year.
- △ **Active ground-water quality site**

Figure 35. Ground-water sites, western Nevada.

DAYTON VALLEY

Water-level data were collected in the Dayton Valley Hydrographic Area as part of a cooperative study with the Carson Water Subconservancy District. The purpose of the study is to determine the hydrologic response to seasonal recharge and to continued development in the area.
Water Level Method: S, steel tape; T, electric tape.
The following sites are shown in figure 35.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
103 N15 E20 01AACD1	391129119404801	256.	4898.	11/02/2001	214.8		T
				12/19/2001	215.3		T
103 N16 E21 23CCBA1	391401119360101	416.	4626.6	11/02/2001	280.1		T
				12/19/2001	279.2		T
				01/25/2002	278.8		T
				05/01/2002	278.2		T
				06/05/2002	276.4		T
				07/01/2002	276.6		T
				08/01/2002	277.8		T
				08/30/2002	279.2		T
103 N16 E21 24DDBC1	391354119343701	135.	4440.	11/02/2001	84.69		S
				12/19/2001	82.34		S
				01/25/2002	81.94		S
				03/15/2002	81.72		S
				05/01/2002	81.43		S
				06/05/2002	83.2		S
				07/01/2002	87.58		S
				08/30/2002	81.18		S
103 N16 E21 24DDBC2	391358119340801	162.	4432.0	11/02/2001	117.7		T
				12/19/2001	115.2		T
				01/25/2002	116.1		T
				03/15/2002	122.3		T
				05/01/2002	128.1		T
				06/05/2002	118.6		T
				07/01/2002	118.2		T
				08/01/2002	115.6		T
				08/30/2002	123.2		T
103 N16 E21 29BCCC1	391324119392501	222.	4835.	11/02/2001	62.9		T
				12/19/2001	63.0		T
				01/25/2002	63.1		T
				03/15/2002	63.3		T
				05/01/2002	63.4		T
				06/05/2002	63.6		T
				07/02/2002	63.7		T
				08/01/2002	63.8		T
				08/30/2002	63.8		T
103 N16 E21 29DBBA1	391322119385101		4768.6	11/02/2001	34.9		T
				12/19/2001	34.7		T
				01/25/2002	34.5		T
				03/15/2002	34.3		T
				05/01/2002	34.3		T
				06/05/2002	34.5		T
103 N16 E21 30CDBA1	391308119401201	113.	4952.	11/02/2001	52.0		T
				12/19/2001	51.9		T
				01/25/2002	52.2		T
				03/15/2002	52.4		T
				05/01/2002	52.5		T
				06/05/2002	52.4		T
				07/01/2002	52.4		T
				08/01/2002	52.5		T
				08/30/2002	52.6		T

GROUND-WATER LEVELS

DAYTON VALLEY--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	(Feet)	Status	Method
103 N16 E22 09BCBC2	391608119313601	600.	4345.3	11/02/2001	59.61		S
				12/19/2001	58.62		S
				01/25/2002	58.18		S
				03/15/2002	57.77		S
				05/01/2002	57.77		S
				06/05/2002	57.91		S
				07/01/2002	58.99		S
				08/01/2002	60.14		S
				08/30/2002	60.85		S
103 N16 E22 09BDAD1	391608119310401	122.	4344.4	11/02/2001	61.4		T
				12/19/2001	60.7		T
103 N16 E22 18DDDD1	391429119325401	273.	4365.	11/02/2001	70.39		S
				12/19/2001	69.05		S
				01/25/2002	68.42		S
				03/15/2002	67.94		S
				05/01/2002	73.00		S
				06/05/2002	73.32		S
				07/01/2002	74.55		S
				08/01/2002	72.29		S
				08/30/2002	76.19		S
103 N17 E22 28BACA1	391853119311201	150.	4393.6	11/02/2001	108.2		T
				12/19/2001	107.8		T
				01/25/2002	107.6		T
				03/15/2002	107.4		T
				05/01/2002	107.4		T
				06/05/2002	107.5		T
				07/01/2002	107.7		T
				08/01/2002	108.1		T
				08/30/2002	108.6		T
103 N17 E22 30DBCD1	391824119331001	230.	4442.9	11/02/2001	155.3		T
				12/19/2001	154.8		T
				01/25/2002	154.5		T
				03/15/2002	154.2		T
				05/01/2002	154.2		T
				06/05/2002	154.3		T
				07/01/2002	154.6		T
				08/01/2002	155.3		T
				08/30/2002	156.1		T
103 N17 E22 32CADA1	391733119321001	101.	4346.5	11/02/2001	57.27		S
				12/19/2001	57.1		S
				01/25/2002	56.74		S
				03/15/2002	56.46		S
				03/21/2002	56.43		S
				05/01/2002	56.41		S
				06/05/2002	56.36		S
				07/01/2002	56.41		S
				08/01/2002	56.84		S
				08/30/2002	57.31		S
103 N17 E23 01DDBA1	392129119205301	276.	4455.	05/01/2002	237.2		T
103 N17 E23 07DDDD1	392047119260501	386.	4324.0	03/21/2002	95.65		S
				05/01/2002	95.6		T
103 N17 E23 09CCDB1	392050119244701	82.	4270.83	05/01/2002	47.9		T
103 N17 E23 09DAAA1	392110119235001	84.	4281.70	03/21/2002	64.85		S
				05/01/2002	65.2		T

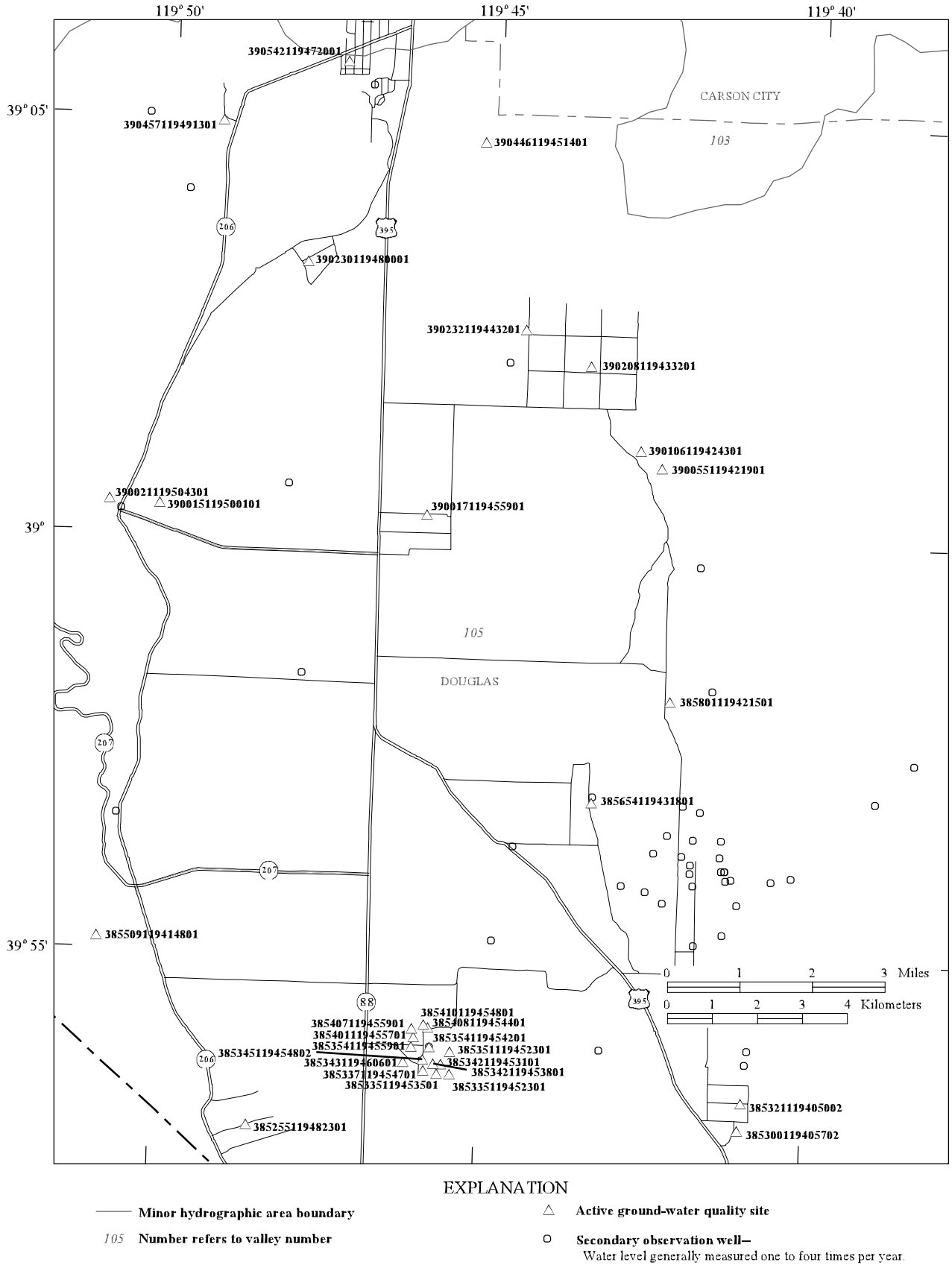


Figure 36. Ground-water sites, Douglas County.

Water-quality measurements in the following table were made in cooperation with the Carson Water Subconservancy District to establish background information in Douglas County to determine if changes in water quantity and quality occur. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."The following sites are shown in figure 36.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
385255119482301	105 N12 E19 23DDD 1	09-12-02	1402	ENVIRONMENTAL	--	141.	4730.
385509119414801	105 N12 E20 11ADD 1	09-09-02	1145	ENVIRONMENTAL	--	125.	4900.
385410119454801	105 N12 E20 17CABB1	09-20-02	1456	ENVIRONMENTAL	--	103.	4755.
385408119454401	105 N12 E20 17CABD1	09-20-02	1218	ENVIRONMENTAL	--	--	4758.
385407119455901	105 N12 E20 17CBDB1	09-19-02	1432	ENVIRONMENTAL	--	130.	4750.
385401119455701	105 N12 E20 17CBDC1	09-19-02	1355	ENVIRONMENTAL	--	--	4750.
385354119455901	105 N12 E20 17CCAC1	09-19-02	1315	ENVIRONMENTAL	--	140.	4750.
385354119454201	105 N12 E20 17CDAC1	09-18-02	1250	ENVIRONMENTAL	--	110.	4770.
385351119452301	105 N12 E20 17DCDB1	09-20-02	1130	ENVIRONMENTAL	--	115.	4790.
385342119453101	105 N12 E20 20ABBC1	09-20-02	1330	ENVIRONMENTAL	--	160.	4785.
385335119452301	105 N12 E20 20ABDC1	09-20-02	1046	ENVIRONMENTAL	--	140.	4795.
385342119453801	105 N12 E20 20BAAD1	09-18-02	1350	ENVIRONMENTAL	--	160.	4783.
385345119454802	105 N12 E20 20BABB1	09-19-02	1205	ENVIRONMENTAL	46.58	--	4766.
385337119454701	105 N12 E20 20BACC1	09-19-02	1115	ENVIRONMENTAL	42.96	140.	4770.
385343119460601	105 N12 E20 20BBBC1	09-19-02	1005	ENVIRONMENTAL	--	140.	4748.
385335119453501	105 N12 E20 20BDDD1	09-19-02	1400	ENVIRONMENTAL	--	142.	4785.
385321119405002	105 N12 E20 24ADCC2	09-13-02	1230	ENVIRONMENTAL	107.13	145.	4980.
385300119405702	105 N12 E20 24DCDB2	12-27-01	1308	ENVIRONMENTAL	--	180.	4987.
	105 N12 E20 24DCDB2	07-22-02	1415	ENVIRONMENTAL	109.80	--	--
390021119504301	105 N13 E19 09ADCA1	09-11-02	1420	ENVIRONMENTAL	--	180.	4810.
390015119500101	105 N13 E19 10DBB 1	09-18-02	0940	**FIELD BLANK**	--	*115.*	*4680.*
	105 N13 E19 10DBB 1	09-18-02	0945	**FIELD BLANK**	--	--	--
	105 N13 E19 10DBB 1	09-18-02	1020	ENVIRONMENTAL	--	--	--
390106119424301	105 N13 E20 02CBB 1	09-11-02	1000	ENVIRONMENTAL	119.88	176.	4865.
390055119421901	105 N13 E20 02CDAA1	12-27-01	1008	ENVIRONMENTAL	--	176.	4900.
	105 N13 E20 02CDAA1	07-18-02	1045	ENVIRONMENTAL	--	--	--
390017119455901	105 N13 E20 08CBAB1	09-11-02	1205	ENVIRONMENTAL	--	332.	4690.
385801119421501	105 N13 E20 26ABBB1	12-19-01	1325	ENVIRONMENTAL	72.50	130.	4869.
	105 N13 E20 26ABBB1	07-22-02	1035	ENVIRONMENTAL	--	--	--
385654119431801	105 N13 E20 34ACC 1	09-09-02	1505	ENVIRONMENTAL	--	80.	4795
390542119472001	105 N14 E19 12ADAB1	09-12-02	0935	ENVIRONMENTAL	--	155.	4909.
390457119491301	105 N14 E19 14BBD 1	09-12-02	1145	ENVIRONMENTAL	--	100.	5040.
390230119480001	105 N14 E19 25BA 1	12-20-01	1040	ENVIRONMENTAL	--	239.	4680.
	105 N14 E19 25BA 1	07-17-02	1130	ENVIRONMENTAL	--	--	--
390446119451401	105 N14 E20 17ADCA1	12-19-01	1100	ENVIRONMENTAL	3.44	27.	4638.
	105 N14 E20 17ADCA1	12-19-01	1255	**FIELD BLANK**	--	--	--
	105 N14 E20 17ADCA1	07-26-02	1455	ENVIRONMENTAL	11.36	--	--
	105 N14 E20 17ADCA1	07-26-02	1700	**FIELD BLANK**	--	--	--
390232119443201	105 N14 E20 28CDC 1	12-20-01	1245	ENVIRONMENTAL	--	88.	4700.
	105 N14 E20 28CDC 1	07-17-02	1430	ENVIRONMENTAL	--	--	--
390208119433201	105 N14 E20 34BDBD1	12-20-01	1430	ENVIRONMENTAL	--	100.	4753.
	105 N14 E20 34BDBD1	07-18-02	1340	ENVIRONMENTAL	34.50	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD TIT 4.5 LAB (MG/L AS CACO3) (90410)	ALKA-LINITY WAT.DIS FET LAB (MG/L CACO3) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
09-12-02	8.3	121	24.0	20.5	5.21	.169	.66	16.1	33	--	14	17	--
09-09-02	7.7	325	22.0	14.6	44.2	8.20	2.74	17.9	141	--	119	144	--
09-20-02	7.1	308	23.0	14.7	--	--	--	--	--	E102	--	--	--
09-20-02	6.9	293	--	15.0	--	--	--	--	--	E82	--	--	--
09-19-02	7.3	323	21.0	15.6	--	--	--	--	--	E112	--	--	--
09-19-02	7.0	248	22.0	14.9	--	--	--	--	--	E74	--	--	--
09-19-02	7.7	269	20.0	14.7	--	--	--	--	--	E106	--	--	--
09-18-02	6.7	207	--	--	--	--	--	--	--	E70	--	--	--
09-20-02	7.6	253	--	14.2	--	--	--	--	--	E99	--	--	--
09-20-02	6.8	282	21.0	19.2	--	--	--	--	--	E90	--	--	--
09-20-02	7.5	321	--	14.6	--	--	--	--	--	E147	--	--	--
09-18-02	7.7	300	18.0	15.0	--	--	--	--	--	E134	--	--	--
09-19-02	7.6	262	21.0	14.2	--	--	--	--	--	E113	--	--	--
09-19-02	7.6	269	20.0	14.2	--	--	--	--	--	E110	--	--	--
09-19-02	7.0	240	18.0	14.2	--	--	--	--	--	E89	--	--	--
09-19-02	7.9	290	22.0	16.1	--	--	--	--	--	E105	--	--	--
09-13-02	7.7	459	24.0	14.2	69.8	12.1	2.54	23.2	183	--	170	207	--
12-27-01	7.6	660	9.5	14.5	55.3	22.7	6.26	29.8	165	--	159	194	--
07-22-02	7.5	546	34.5	15.2	62.5	23.7	6.47	32.6	169	--	108	132	--
09-11-02	7.1	262	23.0	13.4	40.8	5.53	2.82	14.4	144	--	138	170	--
09-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
09-18-02	--	--	--	--	*E.01*	*<.008*	*<.10*	*<.09*	*2*	--	--	--	--
09-18-02	7.2	205	18.0	12.5	27.8	5.79	1.28	9.95	E111	--	114	139	--
09-11-02	7.8	372	19.0	20.0	9.82	3.23	4.43	60.6	115	--	106	129	--
12-27-01	8.0	427	8.5	18.5	12.3	2.05	2.17	63.6	139	--	123	150	--
07-18-02	7.5	397	19.5	19.9	15.8	2.73	2.71	63.9	134	--	134	164	--
09-11-02	8.0	182	23.0	17.0	10.3	.922	3.48	27.1	69	--	64	78	--
12-19-01	7.5	322	--	15.0	26.8	7.80	2.92	23.7	125	--	122	148	--
07-22-02	7.4	276	25.0	15.4	30.9	9.02	3.03	25.2	127	--	77	86	--
09-09-02	7.5	425	22.0	15.3	53.6	12.6	1.98	32.4	217	--	206	251	--
09-12-02	7.7	250	14.5	14.5	22.3	3.97	1.29	28.1	E113	--	95	116	--
09-12-02	8.7	120	24.0	15.2	14.0	.068	.84	13.7	E64	--	42	52	2
12-20-01	7.2	664	8.5	16.0	31.7	6.09	3.16	95.6	113	--	106	129	--
07-17-02	6.8	621	27.0	16.4	31.4	6.02	2.83	101	139	--	134	163	--
12-19-01	--	4890	7.0	13.5	304	26.6	7.64	807	213	--	212	259	--
12-19-01	--	--	--	--	*E.01*	*<.008*	*<.10*	*<.09*	*1*	--	--	--	--
07-26-02	6.6	3570	29.0	14.9	444	29.4	7.51	757	218	--	122	148	--
07-26-02	--	--	--	--	*<.01*	*<.008*	*<.10*	*<.09*	*2*	--	--	--	--
12-20-01	7.7	598	8.0	15.0	46.0	6.34	4.65	69.3	188	--	165	201	--
07-17-02	7.6	596	24.0	16.2	49.9	6.88	4.79	75.3	196	--	170	207	--
12-20-01	7.6	438	7.0	15.0	19.7	6.39	4.02	60.6	123	--	111	136	--
07-18-02	7.3	428	21.0	16.2	21.4	7.11	4.32	63.9	126	--	104	127	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	ORTHOPHOSPHATE, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)
09-12-02	1.33	.8	17.0	79	50	<.015	.028	<.002	.014	E9
09-09-02	11.0	E.1	25.1	245	195	<.015	3.22	<.002	.065	<10
09-20-02	7.53	.3	17.9	245	--	<.04	10.3	<.008	.04	--
09-20-02	7.33	.3	18.3	220	--	<.04	10.6	<.008	.09	--
09-19-02	6.18	E.1	16.1	218	--	<.04	6.29	<.008	.05	--
09-19-02	5.36	E.1	17.2	189	--	<.04	6.01	<.008	.09	--
09-19-02	3.49	E.1	11.8	179	--	<.04	3.87	<.008	.06	--
09-18-02	6.06	E.1	13.2	165	--	<.04	4.02	<.008	.15	--
09-20-02	5.66	.2	13.6	191	--	<.04	5.22	<.008	.05	--
09-20-02	5.90	E.1	16.4	205	--	<.04	5.06	<.008	.09	--
09-20-02	6.59	E.1	16.3	211	--	<.04	1.96	<.008	.04	--
09-18-02	6.07	E.1	14.7	198	--	<.04	2.04	<.008	.04	--
09-19-02	4.19	E.1	12.5	186	--	<.04	2.36	<.008	.06	--
09-19-02	5.05	<.10	13.8	183	--	<.04	2.29	<.008	.05	--
09-19-02	4.93	E.1	12.4	177	--	<.04	3.88	<.008	.06	--
09-19-02	2.99	E.06	11.9	237	--	<.04	2.14	<.008	.04	--
09-13-02	15.8	<.1	64.3	352	304	<.015	3.28	<.002	.057	<10
12-27-01	34.8	.1	64.3	420	364	<.04	12.5	<.008	.04	<10
07-22-02	34.9	.1	65.9	431	344	<.04	11.8	<.008	.05	<10
09-11-02	1.74	.2	11.6	181	161	<.015	.189	<.002	.020	23
09-18-02	*<.30*	*<.1*	*<.1*	*<10*	--	*<.04*	*<.013*	*<.008*	*<.02*	--
09-18-02	*<.30*	*<.1*	*<.1*	*<10*	--	*<.015*	*<.013*	*<.002*	*<.007*	<10
09-18-02	2.43	<.1	2.6	141	126	<.015	1.69	<.002	.074	15
09-11-02	10.0	1.4	36.9	274	197	<.015	1.55	<.002	.007	<10
12-27-01	13.2	3.1	22.1	280	196	<.015	.925	<.002	E.004	E10
07-18-02	20.0	2.61	22.9	286	220	<.015	1.95	<.002	<.007	E5
09-11-02	5.22	.7	17.2	159	104	E.012	<.013	<.002	.028	20
12-19-01	6.18	.2	26.9	230	172	<.015	1.12	<.002	.057	<10
07-22-02	5.82	.2	24.8	236	150	<.015	1.79	<.002	.068	<10
09-09-02	12.1	.2	22.9	306	268	<.015	1.89	<.002	.128	<10
09-12-02	9.50	.4	9.4	178	140	<.015	1.86	<.002	.011	<10
09-12-02	1.08	<.1	1.0	87	64	<.015	1.22	<.002	E.004	<10
12-20-01	59.6	2.7	92.3	412	356	.034	.131	<.002	.104	11
07-17-02	55.8	3.5	94.2	403	377	.026	.396	<.002	.137	E8
12-19-01	261	6.4	2070	3880	3620	.318	<.013	.024	.158	5300
12-19-01	*<.30*	*<.1*	*<.1*	*<10*	--	*<.015*	*<.013*	*<.002*	*<.007*	*<10*
07-26-02	169	5.2	2380	4220	3870	--	--	--	--	7680
07-26-02	*<.30*	*<.1*	*<.1*	*<10*	--	*<.015*	*<.013*	*<.002*	*<.007*	*<10*
12-20-01	22.1	1.8	69.2	428	341	<.015	5.10	<.002	.025	<10
07-17-02	24.9	1.7	68.6	428	357	<.015	5.25	<.002	.019	<10
12-20-01	19.9	1.4	56.7	326	247	<.015	2.59	<.002	.036	<10
07-18-02	22.3	1.47	57.9	333	254	<.015	2.88	<.002	.030	<10

Remark codes used in this report:
< -- Less than
E -- Estimated value

Water Level Status--R, site had been pumped recently; V, foreign substance was present on the surface of the water.
Water Level Method--S, steel tape; G, pressure gage; T, electric tape.
The following sites are shown in figure 36.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
105 N12 E20 01BDAC1	385606119411801	240.	4946.0	10/19/2001	118.6		T
105 N12 E20 01BDAD1	385606119411501	240.	4949.0	10/19/2001	124.4		T
105 N12 E20 01BDBD1	385606119412201	245.	4943.5	10/19/2001	119		T
105 N12 E20 01BDDC1	385559119411801	113.	4932.6	10/19/2001	96.7		T
105 N12 E20 01BDDD1	385559119411301	124.	4938.7	10/19/2001	102.9		T
105 N12 E20 01DCBB1	385541119410601	200.	4957.4	10/19/2001	119.79		S
105 N12 E20 02AADC1	385610119415001	275.	4915.8	10/19/2001	98.6		T
105 N12 E20 02ADAC1	385604119415001	97.	4897.9	10/19/2001	74.9		T
105 N12 E20 02BAAC1	385618119422501	313.	4869.4	10/19/2001	48.6		T
105 N12 E20 04BAAA2	385620119453101	21.	4755.	03/12/2002	10.4		T
105 N12 E20 09BCAD1	385512119444801	450.	4769.	03/12/2002	31.7		T
105 N12 E20 13DCDD1	385347119405201	175.	4975.	10/04/2001	130.29		S
105 N12 E20 13DDBB1	385413119405001	250.	5000.	03/12/2002	158.2	R	T
105 N12 E20 15DCAA1	385355119430701	143.	4886.	03/12/2002	103.7		T
105 N12 E20 17CDAC1	385354119454201	110.	4770.	09/18/2002	44.45	R	S
105 N12 E21 06BDCA1	385602119401301	96.	5005.	10/19/2001	17.3	R	T
105 N13 E19 09DAAB1	390016119504101	159.	4776.	03/12/2002	47.4		T
105 N13 E19 12BBAD1	390037119480701	400.	4667.	03/13/2002	-9.7		G
105 N13 E19 24CADD1	385821119475001	401.	4685.	03/13/2002	-10.4		G
105 N13 E19 33DADD1	385637119503701	80.	4765.	03/12/2002	24.8		T
105 N13 E20 14AADA1	385944119414501	301.	4890.	12/11/2001	109.69		S
				03/05/2002	110		S
				06/18/2002	110.72		S
				09/17/2002	111.36		S
105 N13 E20 23DDDA1	385815119413101	392.	4885.	12/11/2001	90.68		S
				03/05/2002	90.89		S
				06/18/2002	91.84		S
				09/17/2002	92.27		S
105 N13 E20 34ACBC2	385658119432001	90.	4791.	10/19/2001	16.8		T
105 N13 E21 28CCBC1	385724119382301	95.	5160.	03/12/2002	64.45		S
105 N13 E21 32BDAD1	385657119385801	608.	5141.	12/11/2001	37.41		S
				03/12/2002	41.8		T
				06/18/2002	40.53		S
				09/17/2002	41.91		S
105 N14 E19 15BBAB1	390501119502401	240.	5138.	03/13/2002	24.5		T
105 N14 E19 22ABAD1	390407119494601	44.	5051.	03/13/2002	13.43		S
105 N14 E20 07CBAD2	390525119465902	236.	4835.	03/13/2002	105.4		T
105 N14 E20 33BCDA1	390208119444601	218.	4683.	03/13/2002	4.73	V	S

FALLON BASALT AQUIFER MONITORING

Water-quality measurements in the following table were made in cooperation with the Fallon Paiute-Shoshone Tribe to monitor changes in water-quality in the Fallon Basalt Aquifer. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figure 17.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
1031220115	S-Line Canal at Cemetary Road Bridge near Fallon, NV	10-17-01	1015	ENVIRONMENTAL	660	9.1	103
		04-08-02	1015	ENVIRONMENTAL	658	9.0	98
		06-25-02	1015	ENVIRONMENTAL	660	7.7	96
		08-27-02	1045	ENVIRONMENTAL	660	7.4	94
		08-27-02	1300	**DUPLICATE**	*660*	*7.4*	*93*

Date	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
10-17-01	8.0	320	20.5	14.4	23.1	6.57	3.72	28.3	91	111	16.1	.3	19.1
04-08-02	8.2	371	18.5	12.6	27.4	7.83	4.05	38.0	104	126	21.7	.3	18.1
06-25-02	7.9	283	--	19.0	22.2	6.34	3.23	26.4	78	95	15.4	.1	19.2
08-27-02	7.9	293	--	19.8	22.7	6.25	3.42	26.3	83	101	12.3	.2	20.4
08-27-02	*8.0*	*294*	--	*19.5*	*23.0*	*6.28*	*3.52*	*26.3*	*83*	*101*	*14.0*	*.2*	*20.6*

Date	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)
10-17-01	43.1	210	196	<.04	.21	.39	.09	<.008	.19	.113	.09	.196	1.4
04-08-02	48.4	230	229	<.04	.21	.34	<.05	<.008	.12	.081	.05	.105	.6
06-25-02	35.3	185	176	<.04	.14	.34	E.03	<.008	.18	.085	.07	.139	1.2
08-27-02	36.3	193	179	<.04	.19	.31	.05	<.008	.11	.097	.09	.141	.7
08-27-02	*36.4*	*186*	*181*	*<.04*	*.15*	*.30*	*<.05*	*<.008*	*.08*	*.096*	*.09*	*.143*	*.6*

Date	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)
10-17-01	<.1	--	1.4	1	.47	10.4	33	<.06	259	<.04	<.8	.12	2.7
04-08-02	--	--	--	1	.35	13.7	38	<.06	380	E.04	<.8	.16	2.2
06-25-02	<.1	--	1.2	2	.49	10.2	34	<.06	242	E.03	<.8	.12	2.5
08-27-02	<.1	4.0	.7	2	.51	11.2	33	<.06	215	E.03	<.8	.10	2.9
08-27-02	*<.1*	*4.0*	*.6*	*2*	*.52*	*10.3*	*33*	*<.06*	*222*	*E.03*	*<.8*	*.10*	*2.0*

Date	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	THALLIUM, DISSOLVED (UG/L AS TL) (01057)	VANADIUM, DISSOLVED (UG/L AS V) (01085)
10-17-01	<10	<.08	28.5	1.9	--	.42	6.3	.65	E.3	<1	256	<.04	5.3
04-08-02	<10	.13	40.6	9.4	.01	.18	7.6	.61	<.3	<1	284	<.04	5.3
06-25-02	<10	<.08	28.5	7.5	--	.19	5.0	.36	E.2	<1	228	.16	5.2
08-27-02	<10	<.08	24.5	3.1	E.01	--	5.5	1.69	<.3	<1	242	<.04	5.7
08-27-02	*<10*	*<.08*	*24.4*	*3.8*	*E.01*	--	*5.6*	*.66*	*E.2*	*<1*	*243*	*<.04*	*5.0*

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,4-DI-CHLORO-BENZENE DISSOLV (UG/L) (34572)	1METHYL NAPH-THALENE WATER, FLTERD REC (UG/L) (62054)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	26DIMET NAPH-THALENE WATER, FLTERD REC (UG/L) (62055)	2METHYL NAPH-THALENE WATER, FLTERD REC (UG/L) (62056)	3-BETA-COPRO-STANOL, WATER, FLTERD REC (UG/L) (62057)	3METHYL 1(H)-INDOLE, WATER, FLTERD REC (UG/L) (62058)	3-TERT-BHA, WATER, FLTERD REC (UG/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (UG/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (UG/L) (62061)	4-TERT-OCTYL-PHENOL, WATER, FLTERD REC (UG/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (UG/L) (62063)
10-17-01	2	<.5	<.5	<.002	<.5	<.5	<2	<1	<5	<1	<1	<1	<2
04-08-02	1	<.5	<.5	<.006	<.5	<.5	<2	<1	<5	<1	<1	<1	<2
06-25-02	1	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	1	<.5	<.5	<.006	<.5	<.5	M	<1	<5	<1	<1	<1	<2
08-27-02	*1*	*<.5*	*<.5*	*<.006*	*<.5*	*<.5*	*<2*	*<1*	*<5*	*<1*	*<1*	*<1*	*<2*

Date	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACETO-PHENONE WATER, FLTERD REC (UG/L) (62064)	AHT NAPH-THALENE WATER, FLTERD REC (UG/L) (62065)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ANTHRA-CENE DISSOLV (UG/L) (34221)	ANTHRA-QUINONE WATER, FLTERD REC (UG/L) (62066)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENZO-A-PYRENE DISSOLV (UG/L) (34248)	BENZO-PHENONE WATER, FLTERD REC (UG/L) (62067)	BETA-SITOS-TEROL, WATER, FLTERD REC (UG/L) (62068)	BISPHE-NOL A, WATER, FLTERD REC (UG/L) (62069)
10-17-01	<.004	E.1	M	<.002	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	3
04-08-02	<.006	<.5	<.5	<.004	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	<1
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	<.006	E.1	<.5	<.004	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	<1
08-27-02	*<.006*	*<.5*	*<.5*	*<.004*	*<.005*	*<.5*	*<.5*	*<.007*	*<.010*	*<.5*	*<.5*	*<2*	*<1*

Date	[a]BISPHEN OL A-D3 SURRGTE S2033/ 8033 WAT FLT PERCENT (99583)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BROMO-FORM DISSOLV (UG/L) (34288)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)	[a]CAFFE-INE-C13 SURRGTE S2033/ 8033 WAT FLT PERCENT (99584)	CAMPHOR WATER, FLTERD REC (UG/L) (62070)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBA-ZOLE, WATER, FLTERD REC (UG/L) (62071)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CHOLES-TEROL, WATER, FLTERD REC (UG/L) (62072)	COT-ININE, WATER, FLTERD REC (UG/L) (62005)
10-17-01	124	<.5	<.5	<.002	<.5	95.8	<.5	<1	<.5	<.020	<.5	M	<1
04-08-02	69.4	E.2	<.5	<.002	M	87.3	<.5	<.041	<.5	<.020	<.005	<2	<1
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	3.5	<.5	<.5	<.002	E.1	53.5	<.5	<.041	<.5	<.020	<.005	E1	<1
08-27-02	*40.9*	*<.5*	*<.5*	*<.002*	*M*	*56.1*	*<.5*	*<.041*	*<.5*	*<.020*	*<.005*	*<2*	*<1*

Date	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	[a]DCFLBI-PHENYL, SURRGTE S2033/ 8033 WAT FLT PERCENT (99585)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	D-LIMO-NENE, WATER, FLTERD REC (UG/L) (62073)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FLUOR-ANTHENE DISSOLV (UG/L) (34377)
10-17-01	<.018	<.003	99.5	<.006	89.8	<.5	<.005	<.02	<.5	<.002	<.009	<.005	<.5
04-08-02	<.018	<.003	26.3	<.006	99.1	<.005	<.005	<.02	<.5	<.002	<.009	<.005	<.5
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	<.018	<.003	50.2	<.006	130	<.005	<.005	<.02	<.5	<.002	<.009	<.005	<.5
08-27-02	*<.018*	*<.003*	*72.4*	*<.006*	*127*	*<.005*	*<.005*	*<.02*	*<.5*	*<.002*	*<.009*	*<.005*	*<.5*

Date	[a]FLUORO-ANTHENE D10 SUR S2033/ 8033 WAT FLT PERCENT (99586)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HHHMCP-BENZO-PYRAN, WATER, FLTERD REC (UG/L) (62075)	INDOLE, WATER, FLTERD REC (UG/L) (62076)	ISOBOR-NEOL, WATER, FLTERD REC (UG/L) (62077)	ISO-PHORONE DISSOLV (UG/L) (34409)	ISO-PROPYL BENZENE WATER, FLTERD REC (UG/L) (62078)	ISO-QUIN-OLINE, WATER, FLTERD REC (UG/L) (62079)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MENTHOL WATER, FLTERD REC (UG/L) (62080)
10-17-01	136	<.003	93.2	M	<.5	<.5	E.3	<.5	<.5	<.004	<.035	<.027	<.5
04-08-02	83.0	<.003	90.1	<.5	<.5	<.5	<.5	M	<.5	<.004	<.035	<.027	<.5
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	42.4	<.003	98.3	<.5	<.5	<.5	1.8	<.5	<.5	<.004	<.035	<.027	<.5
08-27-02	*58.2*	*<.003*	*92.4*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*	*<.004*	*<.035*	*<.027*	*<.5*

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METHYL SALICY-LATE, WATER, FLTERD REC (UG/L) (62081)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	DEET, WATER, FLTERD REC (UG/L) (62082)	NAPHTH-ALENE DISSOLV (UG/L) (34443)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NONYL-PHENOL, DIETHOX WATER, FLTERD REC (UG/L) (62083)	DI-ETHOXY-OCTYL-PHENOL WAT FLT REC (UG/L) (61705)	MONO-ETHOXY-OCTYL-PHENOL WAT FLT REC (UG/L) (61706)
10-17-01	<.5	<.050	<.006	<.5	<.5	<.006	<.002	M	<.5	<.007	<5	<1	<1
04-08-02	<.5	<.050	<.006	<.5	<.013	<.006	<.002	E.1	<.5	<.007	<5	<1	<1
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	<.5	<.050	<.006	<.5	<.013	<.006	<.002	E.1	<.5	<.007	<5	<1	<1
08-27-02	*<.5*	*<.050*	*<.006*	*<.5*	*<.013*	*<.006*	*<.002*	*E.1*	*<.5*	*<.007*	*<5*	*<1*	*<1*

Date	P,P' DDE DISSOLV (UG/L) (34653)	PARA-CRESOL, WATER, FLTERD REC (UG/L) (62084)	PARA-NONYL-PHENOL, WATER, FLTERD REC (UG/L) (62085)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PENTA-CHLORO-PHENOL DISSOLV (UG/L) (34459)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHENAN-THRENE DISSOL V(UG/L) (34462)	PHENOL WATER FILTRD (UG/L) (34466)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
10-17-01	<.003	<1	<5	<.007	<.002	<.010	<2	<.006	<.5	E.3	<.011	<.5	<.004
04-08-02	<.003	<1	<5	<.010	<.004	<.022	<2	<.006	<.5	<.5	<.011	<.01	<.004
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	<.003	<1	<5	<.010	<.004	<.022	<2	<.006	<.5	E.4	<.011	<.01	<.004
08-27-02	*<.003*	*<1*	*E3*	*<.010*	*<.004*	*<.022*	*<2*	*<.006*	*<.5*	*.6*	*<.011*	*<.01*	*<.004*

Date	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PYRENE DISSOLV (UG/L) (34470)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	STIGMA-STANOL, WATER, FLTERD REC (UG/L) (62086)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TETRA-CHLORO-ETHY-LENE DISSOLV (UG/L) (34476)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	FYROL CEF, WATER, FLTERD REC (UG/L) (62087)	FYROL PCF, WATER, FLTERD REC (UG/L) (62088)
10-17-01	<.010	<.011	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	E.1
04-08-02	<.010	<.011	<.02	<.5	<.005	<2	<.02	<.034	<.02	<.5	<.005	E.1	E.1
06-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-27-02	<.010	<.011	<.02	<.5	<.005	<2	<.02	<.034	<.02	<.5	<.005	M	M
08-27-02	*<.010*	*<.011*	*<.02*	*<.5*	*<.005*	*<2*	*<.02*	*<.034*	*<.02*	*<.5*	*<.005*	*M*	*M*

Date	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIBUTL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62089)	TRICLO-SAN, WATER, FLTERD REC (UG/L) (62090)	TRI-ETHYL CITRATE WATER, FLTERD REC (UG/L) (62091)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	TRIPHNL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62092)	TRIS(2-BUTOXE_ PHOS-PHATE, WATER, FLTERD (UG/L) (62093)	DICHLOR VOS, WATER FLTRD REC (UG/L) (38775)	ALPHA COUNT, 2 SIGMA WAT DIS AS TH-230 (PCI/L) (75987)	ALPHA RADIO. WATER DISS AS TH-230 (PCI/L) (04126)	BETA, 2 SIGMA WATER, DISS, AS CS-137 (PCI/L) (75989)	GROSS ALPHA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99337)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)
10-17-01	<.002	<.5	<1	<.5	<.009	M	E.2	<1.00	1.2	3	1.9	M	7
04-08-02	<.002	<.5	<1	<.5	<.009	<.5	E.2	<1.00	1.8	5	2.2	--	9
06-25-02	--	--	--	--	--	--	--	--	1.4	3	1.5	--	5
08-27-02	<.002	<.5	<1	<.5	<.009	<.5	E.1	<1.00	1.2	2	2.0	--	7
08-27-02	*<.002*	*<.5*	*<1*	*<.5*	*<.009*	*<.5*	*<.5*	*<1.00*	*1.6*	*3*	*1.8*	--	*6*

Date	GROSS BETA, 2X CL, SS MDC, WATER, FLTRD, (PCI/L) (99323)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	RA-226 2 SIGMA WATER, DISS, (PCI/L) (76001)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
10-17-01	2	-81.00	-9.23	.01	.05	4.12
04-08-02	--	-84.20	-10.00	.05	.23	5.62
06-25-02	--	-90.10	-10.90	.01	.03	3.24
08-27-02	--	-86.70	-10.32	.02	.06	3.42
08-27-02	--	*-87.00*	*-10.36*	*.02*	*.06*	*3.36*

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

Samples collected for the chemical analyses of bottom material composition of the Humboldt River were collected in December 2001. This sampling is part of ongoing research on along the river flood plain. This work is part of the Humboldt River Basin Assessment. The following sites are shown in figure 16.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

STATION NUMBER	STATION NAME	Date	Time	Sample type	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940)
10321000	HUMBOLDT RIVER NEAR CARLIN, NV	12-06-01	0830	ENVIRONMENTAL	4.7	.92	1.8
10323425	HUMBOLDT RIVER AT OLD US 40 BRIDGE, AT DUNPHY, NV	12-06-01	0700	ENVIRONMENTAL	4.0	.91	1.9
10325000	HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV	12-05-01	1700	ENVIRONMENTAL	3.6	.91	1.8
10327500	HUMBOLDT RIVER AT COMUS, NV	12-05-01	1200	ENVIRONMENTAL	3.9	1.2	2.0

Date	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)
12-06-01	.90	.11	.072	1.1	3.0	1.9	5.7	1.3	8.4	960	1.9	<1	.5
12-06-01	1.3	.08	.089	.77	1.8	1.0	6.0	1.4	6.5	2300	1.9	<1	.5
12-05-01	1.2	<.05	.093	.59	1.2	.64	5.8	1.5	5.6	1100	2.0	<1	.5
12-05-01	.95	.05	.086	.88	2.0	1.1	6.0	2.3	8.2	960	2.2	<1	.7

Date	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)
12-06-01	58	60	8	25	<1	15	<1	<1	2.5	31	20	43	520
12-06-01	67	74	8	22	1	15	<1	<1	2.4	35	19	38	580
12-05-01	75	72	8	20	1	15	<1	<1	2.5	40	18	38	670
12-05-01	58	74	9	30	1	16	<1	<1	2.9	30	20	57	800

Date	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THAL-LIUM BED MAT D SIEVE <63 U TOTAL (UG/G) (04064)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)
12-06-01	.12	.9	27	16	15	9	.8	.3	370	<1	<1	13	3
12-06-01	.03	.7	30	17	14	8	.4	.2	400	<1	<1	12	2
12-05-01	.03	.6	34	17	15	9	.5	.3	380	<1	<1	15	2
12-05-01	.04	1.5	25	22	12	10	.4	.3	390	<1	<1	12	2

Date	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)
12-06-01	.320	74	2	22	110	3.9
12-06-01	.360	84	2	22	100	3.3
12-05-01	.410	85	2	22	96	3.1
12-05-01	.350	91	2	23	130	2.6

Remark Codes Used in This report:
< -- Less than

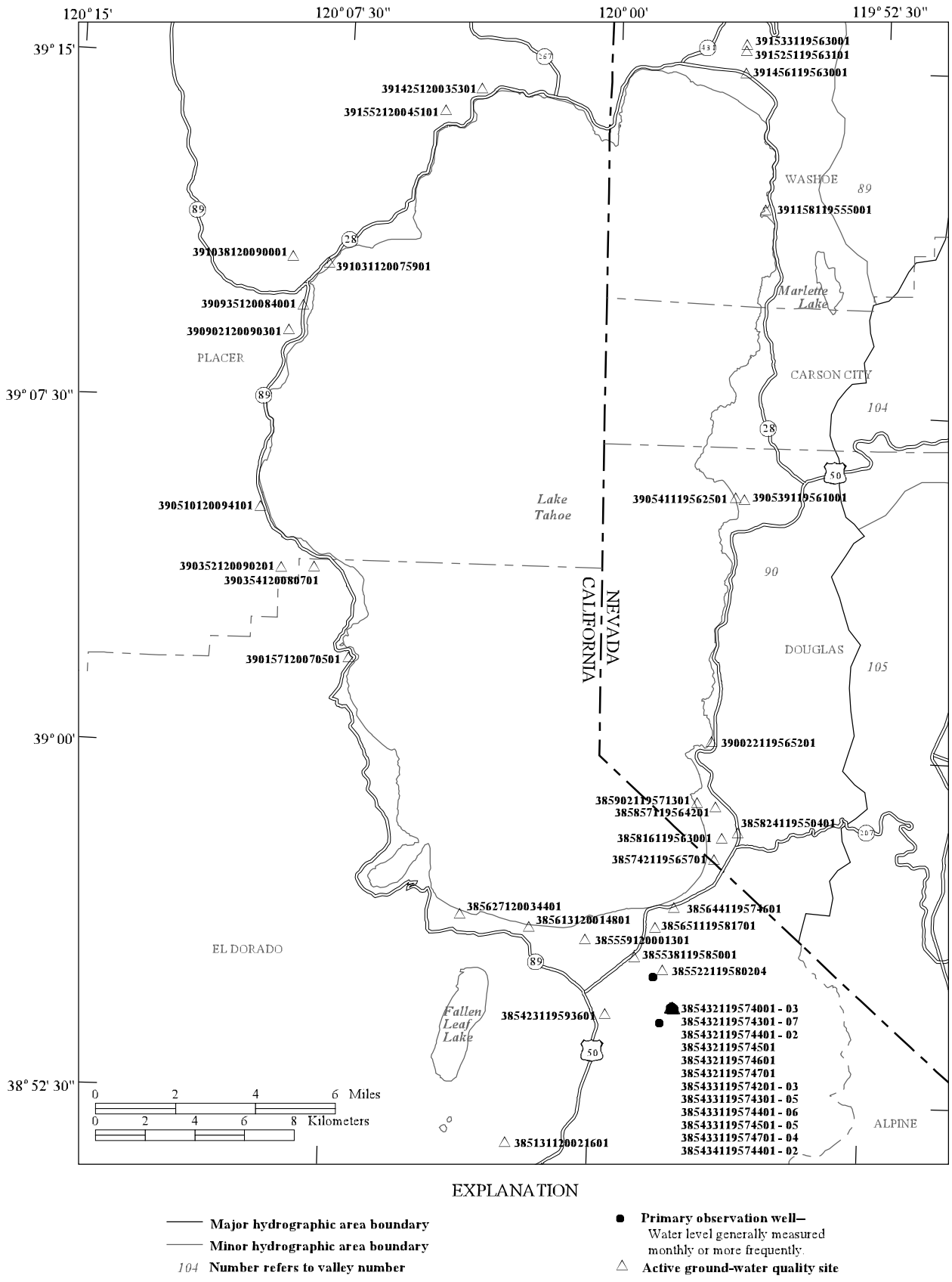


Figure 37. Ground-water sites, Lake Tahoe Basin.

COLD CREEK MONITORING PROJECT

Chemical analyses of water samples collected in the vicinity of a storm-water detention basin are listed in the following table. Water samples were collected near the Cattleman's Detention Basin to characterize surface water in the vicinity. The project is in cooperation with El Dorado County Department of Transportation and is being done to determine effects from placing storm water in the detention basin on nutrient and sediment loads to nearby Cold Creek and Lake Tahoe. The following sites are shown in figure 29.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
10336778	COLD CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE CA	10-17-01	0952	ENVIRONMENTAL	3.7	--	--
		05-13-02	1115	ENVIRONMENTAL	--	--	7.1
		07-17-02	1145	ENVIRONMENTAL	--	6.7	7.5
103367786	COLD CREEK BELOW CATTLEMANS DETENTION BASIN NEAR SOUTH LAKE TAHOE CA	05-13-02	1000	ENVIRONMENTAL	--	--	7.0
		07-17-02	1100	ENVIRONMENTAL	--	4.8	7.4
385433119574407	COLD CREEK STORM SAMPLER 3-OUTLET WEIR DETENTION BASIN	04-04-02	0845	ENVIRONMENTAL	--	--	--
		04-23-02	1000	ENVIRONMENTAL	--	--	--
		06-11-02	1400	ENVIRONMENTAL	--	--	7.4
385432119574402	COLD CREEK SAMPLER SITE 2 18-INCH CULVERT	04-04-02	0830	ENVIRONMENTAL	--	--	--
		04-29-02	1100	ENVIRONMENTAL	--	--	--
		07-13-02	1130	ENVIRONMENTAL	--	--	--
385431119574201	COLD CREEK STORM SAMPLER 1 30-INCH CULVERT	04-04-02	0815	ENVIRONMENTAL	--	--	--
		04-25-02	1920	ENVIRONMENTAL	--	--	--
		06-11-02	1400	ENVIRONMENTAL	--	--	--
		07-18-02	1500	ENVIRONMENTAL	--	--	6.9
		08-13-02	1021	ENVIRONMENTAL	--	--	--

Date	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
10-17-01	58	12.0	5.5	--	--	--	--	--	--	--	--	--	--
05-13-02	42	--	8.3	4.02	.634	.81	3.79	--	--	--	--	20	24
07-17-02	36	--	14.1	3.26	.460	.71	3.18	--	--	--	--	14	17
05-13-02	43	--	6.9	4.05	.641	.92	3.85	--	--	--	--	19	24
07-17-02	38	--	14.3	3.33	.473	.70	3.24	--	--	--	--	15	18
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	390	--	--	--	--	--	--	--	--	--	--	113	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-29-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	27.4	4.91	15.2	44.8	--	--	--	--	--	--
07-18-02	220	--	--	5.98	.516	1.72	13.7	--	--	--	--	--	--
08-13-02	--	--	--	--	--	--	--	2.6	.960	3.0	2.2	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	<.29	E.28	E.1	16.1	1.3	--	35	--	--	--	--	--	--
07-17-02	<.03	E.23	<.1	13.8	1.8	--	32	--	--	--	--	--	--
05-13-02	<.29	.42	E.1	16.1	1.2	--	45	39	--	--	--	--	--
07-17-02	<.03	E.29	<.1	13.9	1.8	--	30	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	.003	.55	--	.004	--
04-23-02	--	--	--	--	--	--	--	--	.048	.95	--	.010	--
06-11-02	--	--	--	--	--	--	--	--	.217	3.1	--	.005	--
04-04-02	--	--	--	--	--	--	--	--	.283	1.2	--	.239	--
04-29-02	--	--	--	--	--	--	--	--	.053	.63	--	.179	--
07-13-02	--	--	--	--	--	--	--	--	1.10	--	1.5	.082	2.64
04-04-02	--	--	--	--	--	--	--	--	.008	.22	--	.095	--
04-25-02	--	--	--	--	--	--	--	--	.005	1.1	--	.163	--
06-11-02	<.03	56.8	.2	.40	.5	--	269	--	--	--	--	--	--
07-18-02	<.58	15.4	<.1	3.25	3.6	--	84	--	.104	1.2	7.9	.099	2.81
08-13-02	--	--	--	--	--	<.05	--	--	--	--	--	--	--

Date	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	2.5	--	--	--	15	<.05	4	4	<.06
07-17-02	--	--	--	--	.8	--	--	--	6	<.05	<2	3	<.06
05-13-02	--	--	--	--	3.2	--	--	--	16	.08	E1	4	<.06
07-17-02	--	--	--	--	.8	--	--	--	7	<.05	<2	3	<.06
04-04-02	.055	.040	--	--	--	--	--	--	--	--	--	--	--
04-23-02	.062	.032	--	--	--	--	--	--	--	--	--	--	--
06-11-02	.120	.046	--	--	--	--	--	--	--	--	--	--	--
04-04-02	1.12	1.10	--	--	--	--	--	--	--	--	--	--	--
04-29-02	.157	.151	--	--	--	--	--	--	--	--	--	--	--
07-13-02	.637	.246	22700	--	187	--	--	--	--	--	--	--	--
04-04-02	.060	.059	--	--	--	--	--	--	--	--	--	--	--
04-25-02	.071	.052	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	29.5	--	--	--	10	.17	E2	40	<.06
07-18-02	.081	.020	78900	--	19.0	--	--	--	31	.39	<2	12	<.06
08-13-02	--	--	--	.100	--	.03	.90	.87	--	--	--	--	--

Date	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	E.02	<.8	.03	.9	70	E.05	2.3	9.1	<.06	5	<1	<1	--
07-17-02	.04	<.8	<.02	.6	35	<.08	1.4	20.5	<.06	<2	<1	<1	--
05-13-02	E.03	<.8	.03	.8	111	<.08	3.3	10.1	.08	<2	<1	<1	--
07-17-02	.05	<.8	E.01	.7	67	E.05	2.0	20.2	<.06	<2	<1	<1	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-29-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	.09	<4.0	.64	2.4	45	<.08	115	32.8	.74	<2	<1	1	--
07-18-02	.05	E.4	.48	3.7	160	.12	133	1.3	1.69	<2	<1	13	--
08-13-02	--	--	--	--	--	--	--	--	--	--	--	--	7.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-29-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-13-02	.7	3.8	1200	1.5	<1	.1	50	19	9	18	1	14	<1

Date	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-29-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-13-02	<1	3.3	25	16	13	500	.03	1.6	23	11	25	8	.2

Date	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THAL-LIUM BED MAT D SIEVE <63 U TOTAL (UG/G) (04064)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)
10-17-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	4.15	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	2.35	--
05-13-02	--	--	--	--	--	--	--	--	--	--	--	3.98	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	2.29	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-29-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-13-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-04-02	--	--	--	--	--	--	--	--	--	--	--	--	--
04-25-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-11-02	--	--	--	--	--	--	--	--	--	--	--	44.5	--
07-18-02	--	--	--	--	--	--	--	--	--	--	--	.23	--
08-13-02	.2	490	2	<1	9	2	.500	93	2	16	86	--	5.3

Remark codes used in this report:
  < -- Less than
  E -- Estimated value

COLD CREEK MONITORING PROJECT

Chemical analyses of water samples collected periodically from shallow wells drilled in the vicinity of a proposed storm-water detention basin are listed in the following table. Water samples were collected prior to construction of the Cattleman's Detention Basin to characterize shallow ground water in the vicinity of the proposed detention basin. The project is in cooperation with El Dorado County Department of Transportation and is being done to determine effects from placing storm water in the detention basin on nutrient and sediment loads to nearby Cold Creek and Lake Tahoe. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figure 37.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
385432119574001 090 N12 E18 11BBAA2	COLD CREEK 01	05-07-02	1230	ENVIRONMENTAL	5.55	6278.84	--
		07-17-02	1215	ENVIRONMENTAL	5.55	6278.84	--
385432119574002 090 N12 E18 11BBAA3	COLD CREEK 02	05-07-02	1300	ENVIRONMENTAL	6.75	6281.57	--
		07-17-02	1240	ENVIRONMENTAL	6.75	6281.57	--
385432119574302 090 N12 E18 11BBAA5	COLD CREEK 03 DEEP	11-07-01	0830	ENVIRONMENTAL	15.1	6281.21	605
		04-23-02	1230	ENVIRONMENTAL	15.1	6281.21	610
		07-01-02	1100	ENVIRONMENTAL	15.1	6281.21	610
385432119574301 090 N12 E18 11BBAA4	COLD CREEK 03 SHALLOW	11-07-01	0730	ENVIRONMENTAL	10.2	6281.23	605
		04-24-02	1030	ENVIRONMENTAL	10.2	6281.23	614
		07-01-02	1015	ENVIRONMENTAL	10.2	6281.23	610
385433119574201 090 N12 E18 02CCDD1	COLD CREEK 04	05-01-02	1230	ENVIRONMENTAL	10.2	6279.12	--
		07-19-02	0950	ENVIRONMENTAL	10.2	6279.12	--
385433119574202 090 N12 E18 02CCDD2	COLD CREEK 05	05-01-02	1200	ENVIRONMENTAL	10.2	6278.03	--
		07-17-02	1010	ENVIRONMENTAL	10.2	6278.03	--
385433119574302 090 N12 E18 02CCDD4	COLD CREEK 06 DEEP	05-01-02	1005	ENVIRONMENTAL	15.	6277.40	--
		07-23-02	1225	ENVIRONMENTAL	15.	6277.40	--
385433119574301 090 N12 E18 02CCDD3	COLD CREEK 06 SHALLOW	05-01-02	1045	ENVIRONMENTAL	8.95	6277.37	--
		07-19-02	1025	ENVIRONMENTAL	8.95	6277.37	--
385433119574203 090 N12 E18 02CCDD5	COLD CREEK 07	05-01-02	1125	ENVIRONMENTAL	4.97	6273.29	--
		07-19-02	1050	ENVIRONMENTAL	4.97	6273.29	--
385432119574304 090 N12 E18 11BBAB2	COLD CREEK 08 DEEP	11-07-01	1000	ENVIRONMENTAL	14.95	6278.15	605
		04-23-02	1145	ENVIRONMENTAL	14.95	6278.15	610
		07-01-02	1300	ENVIRONMENTAL	14.95	6278.15	610
385432119574303 090 N12 E18 11BBAB1	COLD CREEK 08 SHALLOW	11-07-01	0930	ENVIRONMENTAL	9.2	6278.13	605
		04-23-02	1030	ENVIRONMENTAL	9.2	6278.13	610
		07-01-02	1230	ENVIRONMENTAL	9.2	6278.13	610
385432119574305 090 N12 E18 11BBAA6	COLD CREEK 09	04-24-02	1100	ENVIRONMENTAL	9.9	6279.30	615
		07-16-02	1005	ENVIRONMENTAL	9.9	6279.30	610
385433119574303 090 N12 E18 02CCDD6	COLD CREEK 10	05-09-02	1100	ENVIRONMENTAL	10.2	6276.39	615
		07-02-02	1200	ENVIRONMENTAL	10.2	6276.39	610
385434119574401 090 N12 E18 02CCDD7	COLD CREEK 11	05-09-02	1000	ENVIRONMENTAL	5.65	6272.83	--
		07-02-02	0945	ENVIRONMENTAL	5.65	6272.83	610
385434119574402 090 N12 E18 02CCDC1	COLD CREEK 12	05-09-02	0915	ENVIRONMENTAL	5.13	6275.14	615
		07-02-02	1030	ENVIRONMENTAL	5.13	6275.14	610
385433119574401 090 N12 E18 02CCDC2	COLD CREEK 13 SHALLOW	05-09-02	1300	ENVIRONMENTAL	10.2	6272.64	615
		07-03-02	1000	ENVIRONMENTAL	10.2	6272.64	610
385433119574402 090 N12 E18 02CCDC3	COLD CREEK 13 DEEP	05-09-02	1200	ENVIRONMENTAL	15.25	6275.69	615
		07-03-02	1100	ENVIRONMENTAL	15.25	6275.69	610
385433119574403 090 N12 E18 02CCDC4	COLD CREEK 14	05-13-02	0930	ENVIRONMENTAL	5.48	6272.60	--
		07-02-02	1300	ENVIRONMENTAL	5.48	6272.60	610
385432119574401 090 N12 E18 11BBAB3	COLD CREEK 15	05-13-02	1045	ENVIRONMENTAL	10.2	6278.33	--
		07-16-02	1030	ENVIRONMENTAL	10.2	6278.33	610
385433119574404 090 N12 E18 02CCDC5	COLD CREEK 16	05-01-02	1315	ENVIRONMENTAL	7.15	6273.47	--
		07-16-02	1045	ENVIRONMENTAL	7.15	6273.47	610
385433119574502 090 N12 E18 02CCDC7	COLD CREEK 17 DEEP	05-07-02	1200	ENVIRONMENTAL	10.65	6272.82	--
		07-19-02	1130	ENVIRONMENTAL	10.65	6272.82	--
385433119574501 090 N12 E18 02CCDC6	COLD CREEK 17 SHALLOW	05-07-02	1130	ENVIRONMENTAL	6.66	6272.71	--
		07-19-02	1200	ENVIRONMENTAL	6.66	6272.71	--
385433119574503 090 N12 E18 02CCDC8	COLD CREEK 18	05-03-02	0915	ENVIRONMENTAL	5.08	6271.93	--
		07-19-02	1220	ENVIRONMENTAL	5.08	6271.93	--
385433119574505 090 N12 E18 02CCDC11	COLD CREEK 19 DEEP	05-03-02	0945	ENVIRONMENTAL	10.	6272.11	--
		07-23-02	1025	ENVIRONMENTAL	10.	6272.11	--
385433119574504 090 N12 E18 02CCDC9	COLD CREEK 19 SHALLOW	05-03-02	1015	ENVIRONMENTAL	5.56	6272.19	--
		07-23-02	0955	ENVIRONMENTAL	5.56	6272.19	--
385432119574501 090 N12 E18 11BBAB4	COLD CREEK 20	05-07-02	1100	ENVIRONMENTAL	7.15	6272.77	--
		07-19-02	1245	ENVIRONMENTAL	7.15	6272.77	--
385432119574601 090 N12 E18 11CCDC12	COLD CREEK 21	07-16-02	1105	ENVIRONMENTAL	4.95	6272.19	610
385433119574701 090 N12 E18 02CCDC13	COLD CREEK 22	05-03-02	1045	ENVIRONMENTAL	5.57	6271.94	--
		07-23-02	1145	ENVIRONMENTAL	5.57	6271.94	--
385433119574702 090 N12 E18 02CCDC14	COLD CREEK 23	05-07-02	1040	ENVIRONMENTAL	5.4	6271.08	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
05-07-02	--	6.7	124	--	9.3	--	--	--	--	--	--	--	--
07-17-02	3.4	6.8	47	--	15.0	--	--	--	--	--	--	--	--
05-07-02	--	6.2	205	--	5.9	--	--	--	--	--	--	--	--
07-17-02	3.9	6.2	371	25.0	11.7	--	--	--	--	--	--	--	--
11-07-01	.8	6.6	295	1.0	4.5	6.53	1.43	1.20	34.5	50	.03	34.3	<.1
04-23-02	.7	6.7	245	--	4.8	9.80	2.18	1.83	57.6	68	.13	67.3	<.1
07-01-02	.4	6.7	426	22.0	9.4	11.7	2.43	2.87	58.2	75	.12	72.2	<.1
11-07-01	.4	6.6	247	1.0	4.0	24.8	3.90	3.91	27.7	152	E.02	37.5	E.1
04-24-02	.3	6.6	330	10.0	4.5	22.8	3.85	2.75	23.7	123	.15	51.6	<.1
07-01-02	.4	6.7	374	--	10.9	18.3	2.88	3.15	28.2	107	.07	40.2	<.1
05-01-02	--	6.9	73	--	6.9	--	--	--	--	--	--	--	--
07-19-02	.5	6.9	115	--	8.4	--	--	--	--	--	--	--	--
05-01-02	--	6.7	179	--	6.6	--	--	--	--	--	--	--	--
07-17-02	.2	6.8	173	--	12.3	8.17	1.28	1.34	13.1	--	.09	20.3	E.1
05-01-02	--	6.9	64	--	7.5	--	--	--	--	--	--	--	--
07-23-02	.3	6.9	97	--	13.8	--	--	--	--	--	--	--	--
05-01-02	--	6.6	315	--	9.5	--	--	--	--	--	--	--	--
07-19-02	.2	6.7	298	--	13.3	--	--	--	--	--	--	--	--
05-01-02	--	6.9	73	--	5.6	--	--	--	--	--	--	--	--
07-19-02	.3	6.8	105	--	11.8	--	--	--	--	--	--	--	--
11-07-01	.3	6.4	258	1.0	6.0	5.59	.815	1.18	15.0	50	.34	5.52	<.1
04-23-02	.4	6.8	292	8.0	8.0	21.6	3.44	2.00	27.0	48	.04	93.6	<.1
07-01-02	.1	6.8	365	--	7.9	--	--	--	--	75	--	--	--
11-07-01	.2	6.4	510	1.0	7.0	29.7	4.93	6.30	11.5	221	.36	32.3	E.1
04-23-02	.3	6.6	332	--	6.0	27.3	4.89	4.84	10.7	204	.19	26.9	<.1
07-01-02	.1	6.6	510	--	11.4	31.8	5.14	7.02	12.0	213	.62	36.3	<.1
04-24-02	.3	6.6	496	--	9.3	13.9	2.09	2.06	65.9	42	.12	160	<.1
07-16-02	.1	6.7	313	--	7.3	6.22	.934	1.47	53.0	73	.60	55.9	<.1
05-09-02	--	6.5	231	--	7.9	6.63	.925	1.92	26.8	52	.50	38.4	<.1
07-02-02	.1	6.1	190	--	11.8	6.28	.889	2.49	23.0	58	.44	27.7	<.1
05-09-02	--	6.3	282	--	6.7	15.1	2.32	1.53	23.9	57	.14	57.2	<.1
07-02-02	.5	6.2	229	--	15.5	11.7	1.83	1.43	19.3	51	E.02	36.5	<.1
05-09-02	--	6.3	280	--	6.2	7.90	1.22	.93	10.4	55	.16	24.2	E.1
07-02-02	.1	6.2	250	--	11.4	10.7	1.76	1.34	19.0	63	E.02	43.4	E.1
05-09-02	--	6.7	310	--	7.2	14.9	2.46	1.87	24.7	65	.14	54.9	<.1
07-03-02	.3	6.7	370	--	11.5	19.1	2.97	2.34	34.7	59	.06	90.2	<.1
05-09-02	--	7.1	218	--	7.8	10.2	1.41	1.58	20.2	68	.06	21.6	<.1
07-03-02	.4	6.9	257	--	9.6	12.3	1.76	1.87	23.7	72	.04	37.1	<.1
05-13-02	--	6.2	238	--	8.3	10.2	1.51	2.39	14.0	69	.62	27.0	E.1
07-02-02	.1	6.2	249	--	12.8	11.7	1.97	3.11	19.5	73	.16	37.2	<.1
05-13-02	--	6.3	518	--	7.8	16.9	3.15	2.43	43.6	73	.56	114	<.1
07-16-02	.1	6.6	308	--	11.0	9.74	1.78	2.21	42.3	71	.15	67.2	<.1
05-01-02	--	6.7	222	--	7.5	--	--	--	--	--	--	--	--
07-16-02	.3	6.7	335	--	12.8	--	--	--	--	92	--	--	--
05-07-02	--	6.6	225	--	7.9	--	--	--	--	--	--	--	--
07-19-02	.4	6.8	285	--	12.7	--	--	--	--	--	--	--	--
05-07-02	--	6.6	412	--	8.9	--	--	--	--	--	--	--	--
07-19-02	5.7	6.9	362	--	17.0	--	--	--	--	--	--	--	--
05-03-02	--	6.0	167	--	5.1	--	--	--	--	--	--	--	--
07-19-02	.2	6.7	285	--	12.9	--	--	--	--	--	--	--	--
05-03-02	--	6.9	173	--	7.7	--	--	--	--	--	--	--	--
07-23-02	.4	6.8	302	--	11.4	--	--	--	--	--	--	--	--
05-03-02	--	6.0	82	--	6.1	--	--	--	--	--	--	--	--
07-23-02	.8	6.1	181	--	12.4	--	--	--	--	--	--	--	--
05-07-02	--	6.5	287	--	7.0	--	--	--	--	--	--	--	--
07-19-02	2.3	6.7	354	--	13.0	--	--	--	--	--	--	--	--
07-16-02	.1	7.0	398	--	11.3	21.5	4.35	2.26	29.4	76	.10	67.5	<.1
05-03-02	--	6.6	118	--	5.9	--	--	--	--	--	--	--	--
07-23-02	.3	6.6	301	--	16.2	--	--	--	--	--	--	--	--
05-07-02	--	6.1	142	--	6.6	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)
05-07-02	--	--	--	--	.430	.53	--	.120	.102	.001	--	--	--
07-17-02	--	--	--	--	.261	.46	--	.078	.169	.154	--	--	--
05-07-02	--	--	--	--	.012	.29	--	.076	.021	.006	--	--	--
07-17-02	--	--	--	--	.005	.11	.03	.003	.016	.010	.033	--	--
11-07-01	15.3	1.5	128	127	.011	.26	--	.013	.039	.028	--	5.8	6
04-23-02	11.7	7.0	205	202	.111	.40	--	.040	.013	.008	--	4.7	5
07-01-02	13.2	1.2	213	211	.159	.53	--	.037	.024	.009	--	8.3	3
11-07-01	17.9	.1	182	239	4.27	6.2	--	.010	.032	.001	--	8.7	22
04-24-02	14.0	2.2	224	234	3.31	4.0	--	.150	.061	.062	--	10.0	13
07-01-02	14.2	1.0	207	202	3.05	3.8	--	.031	.114	.103	--	9.8	22
05-01-02	--	--	--	--	.051	.16	--	.026	.060	.052	--	--	--
07-19-02	--	--	--	--	.087	.12	--	.005	.044	.010	--	--	--
05-01-02	--	--	--	--	.582	.31	--	.132	.084	.081	--	--	--
07-17-02	18.4	E.1	102	--	.471	.51	--	.126	.139	.004	--	1.5	7
05-01-02	--	--	--	--	.036	.14	--	.007	.008	.003	--	--	--
07-23-02	--	--	--	--	.017	.12	--	.073	.002	.003	--	--	--
05-01-02	--	--	--	--	.363	1.3	--	.083	.058	.047	--	--	--
07-19-02	--	--	--	--	.367	.68	--	.065	.093	.086	--	--	--
05-01-02	--	--	--	--	.063	.15	--	.050	.085	.082	--	--	--
07-19-02	--	--	--	--	.041	.11	--	.014	.101	.014	--	--	--
11-07-01	20.2	.8	82	86	.092	.20	--	.015	.083	.077	--	1.3	2
04-23-02	20.2	1.5	224	226	.177	.27	--	.135	.015	.041	--	1.3	<1
07-01-02	--	--	--	--	.093	1.2	--	.049	.042	.044	--	2.0	--
11-07-01	20.9	E.1	228	--	16.1	--	--	.018	.190	.192	--	13.5	35
04-23-02	18.8	E.4	256	--	13.0	--	--	.216	.141	.134	--	11.6	26
07-01-02	21.5	.1	284	314	13.9	15	--	.068	.241	.094	--	13.4	31
04-24-02	9.38	1.5	291	314	.222	.71	--	.116	.033	.064	--	3.0	3
07-16-02	10.6	E.1	197	--	.150	.76	--	.081	.249	.236	--	10.3	11
05-09-02	10.7	.3	135	133	.444	.71	--	.096	.113	.095	--	7.4	38
07-02-02	15.3	E.1	120	--	.477	1.1	--	.063	.127	.121	--	5.8	31
05-09-02	19.0	<.1	193	--	.262	.45	--	.114	.043	.073	--	4.5	19
07-02-02	20.3	<.1	143	--	.324	.47	--	.037	.061	.078	--	3.8	18
05-09-02	16.2	E.1	124	--	.596	.93	--	.152	.166	.146	--	7.2	62
07-02-02	19.2	<.1	170	--	.653	.88	--	.061	.182	.141	--	5.0	34
05-09-02	17.1	E.1	183	--	1.09	1.0	--	.130	.113	.107	--	2.8	4
07-03-02	17.7	<.1	257	--	1.11	1.6	--	.083	.117	.101	--	2.5	3
05-09-02	20.8	.2	137	135	.538	--	--	.114	.162	.010	--	2.2	2
07-03-02	22.4	.2	151	163	.596	.91	--	.041	.136	.137	--	2.1	<1
05-13-02	21.1	3.3	157	145	.658	.75	--	.165	.151	.292	--	4.2	9
07-02-02	19.1	1.4	173	167	1.01	1.7	--	.119	.249	.249	--	8.0	11
05-13-02	12.3	E.3	317	--	1.46	2.0	--	.142	.127	.134	--	4.5	6
07-16-02	12.1	E.1	199	--	1.67	2.2	--	.179	.174	.048	--	7.2	10
05-01-02	--	--	--	--	1.36	1.2	--	.125	.115	.109	--	--	--
07-16-02	--	--	--	--	1.79	3.7	--	.209	.123	.003	--	4.0	--
05-07-02	--	--	--	--	.040	.14	--	.011	.013	.003	--	--	--
07-19-02	--	--	--	--	.051	.06	--	.045	.015	.004	--	--	--
05-07-02	--	--	--	--	.064	.20	--	.083	.014	.009	--	--	--
07-19-02	--	--	--	--	.101	.17	--	.035	.028	.011	--	--	--
05-03-02	--	--	--	--	.057	.23	--	.043	.039	.003	--	--	--
07-19-02	--	--	--	--	.048	.16	--	.014	.115	.007	--	--	--
05-03-02	--	--	--	--	.037	.13	--	.094	.304	.004	--	--	--
07-23-02	--	--	--	--	.029	.41	--	.035	.159	.348	--	--	--
05-03-02	--	--	--	--	.019	.26	--	.039	.055	.023	--	--	--
07-23-02	--	--	--	--	.080	.19	--	.061	.251	.152	--	--	--
05-07-02	--	--	--	--	.154	.58	--	.065	.170	.006	--	--	--
07-19-02	--	--	--	--	.142	--	--	.029	.165	.011	--	--	--
07-16-02	27.6	.4	258	233	.471	.74	--	.218	.375	.002	--	3.6	6
05-03-02	--	--	--	--	.078	.56	--	.059	.059	.051	--	--	--
07-23-02	--	--	--	--	.206	.32	--	.053	.042	.029	--	--	--
05-07-02	--	--	--	--	.025	.15	--	.052	.097	.004	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	ANTIMONY, DISSOLVED (UG/L AS SB) (01095)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
11-07-01	E.03	E1	28	<.06	E.02	<.8	.58	.4	2150	<.08	62.8	8.8	.35
04-23-02	.10	<2	58	<.06	E.02	<.8	1.17	.7	2880	<.08	121	4.9	.45
07-01-02	.07	<2	66	<.06	E.03	<.8	1.10	2.0	4050	<.08	139	7.1	.28
11-07-01	E.03	E1	59	<.06	.04	<.8	1.12	.3	24900	<.08	1490	6.9	.49
04-24-02	.08	<2	52	<.06	<.04	<.8	.85	.3	32400	<.08	1550	1.4	.66
07-01-02	E.04	<2	41	<.06	<.04	<.8	.79	.2	23900	<.08	1170	2.7	.37
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-17-02	<.05	<2	13	<.06	E.03	<.8	.06	E.1	14800	<.08	202	11.4	<.06
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
11-07-01	<.05	3	8	<.06	E.03	<.8	.65	E.1	6390	<.08	101	14.5	.09
04-23-02	.07	<2	32	<.06	E.03	<.8	2.53	E.2	26200	<.08	432	4.0	.48
07-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
11-07-01	<.05	E1	100	<.06	<.04	<.8	1.66	E.1	48000	<.08	645	2.7	.47
04-23-02	.07	<2	95	<.06	<.04	<.8	1.52	E.2	47500	<.08	551	2.1	.80
07-01-02	.06	<2	105	<.06	<.04	<.8	1.58	E.2	52700	<.08	657	3.8	.27
04-24-02	.06	<2	48	<.06	<.04	<.8	.28	E.1	31400	<.08	482	2.5	.45
07-16-02	<.05	<2	19	<.06	E.03	E.5	.07	E.2	15900	E.06	202	9.6	.13
05-09-02	E.03	E1	23	<.06	.05	E.4	.56	.6	14500	<.08	196	5.3	.25
07-02-02	<.05	<2	21	<.06	<.04	E.5	.44	E.1	14000	<.08	181	5.4	.13
05-09-02	E.04	E1	22	<.06	.12	<.8	.41	.6	19700	<.08	174	2.4	.55
07-02-02	E.04	<2	18	<.06	E.03	<.8	.28	E.2	15100	<.08	130	4.2	.31
05-09-02	E.05	E1	20	<.06	.04	E.6	3.12	.4	22400	<.08	235	3.3	.65
07-02-02	E.04	E1	28	<.06	E.02	E.7	3.17	E.2	28200	<.08	264	5.6	.50
05-09-02	<.05	<2	25	<.06	<.04	<.8	.18	E.2	19300	<.08	346	4.9	.17
07-03-02	.06	<2	32	<.06	E.02	<.8	.20	.3	23900	E.06	432	4.9	<.06
05-09-02	E.03	2	13	<.06	.08	<.8	.56	E.2	16800	<.08	181	21.4	.18
07-03-02	<.05	2	15	<.06	.04	<.8	.49	E.1	18500	<.08	214	17.2	E.03
05-13-02	E.04	2	25	<.06	E.03	<.8	.79	E.2	21300	<.08	126	5.1	.32
07-02-02	E.04	<2	31	<.06	<.04	<.8	.90	E.2	26200	<.08	166	3.8	.28
05-13-02	<.05	<2	48	<.06	<.04	<.8	.32	.2	38900	<.08	580	2.3	<.06
07-16-02	<.05	<2	33	<.06	<.04	E.4	.21	E.2	22800	E.06	325	4.2	E.05
05-01-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-16-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-03-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-03-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-03-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-19-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-16-02	<.05	5	26	<.06	.10	E.4	.85	E.2	32100	E.05	412	37.3	<.06
05-03-02	--	--	--	--	--	--	--	--	--	--	--	--	--
07-23-02	--	--	--	--	--	--	--	--	--	--	--	--	--
05-07-02	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
05-07-02	--	--	--	--
07-17-02	--	--	--	--
05-07-02	--	--	--	--
07-17-02	--	--	--	--
11-07-01	<2	<1	<1	2.46
04-23-02	<2	<1	1	2.88
07-01-02	<2	<1	<1	4.04
11-07-01	<2	<1	1	13.2
04-24-02	<2	<1	5	5.83
07-01-02	<2	<1	2	4.06
05-01-02	--	--	--	--
07-19-02	--	--	--	--
05-01-02	--	--	--	--
07-17-02	<2	<1	<1	.69
05-01-02	--	--	--	--
07-23-02	--	--	--	--
05-01-02	--	--	--	--
07-19-02	--	--	--	--
05-01-02	--	--	--	--
07-19-02	--	--	--	--
11-07-01	<2	<1	<1	3.05
04-23-02	<2	<1	<1	3.31
07-01-02	--	--	--	--
11-07-01	<2	<1	<1	1.59
04-23-02	<2	<1	<1	2.08
07-01-02	<2	<1	<1	3.78
04-24-02	<2	<1	3	.89
07-16-02	<2	<1	<1	3.95
05-09-02	<2	<1	<1	2.60
07-02-02	<2	<1	<1	2.78
05-09-02	<2	<1	5	1.17
07-02-02	<2	<1	1	1.21
05-09-02	<2	<1	2	4.62
07-02-02	<2	<1	1	3.00
05-09-02	<2	<1	<1	.95
07-03-02	<2	<1	<1	.62
05-09-02	<2	<1	<1	2.19
07-03-02	<2	<1	<1	1.87
05-13-02	<2	<1	1	1.09
07-02-02	<2	<1	<1	1.32
05-13-02	<2	<1	<1	4.79
07-16-02	<2	<1	<1	3.72
05-01-02	--	--	--	--
07-16-02	--	--	--	--
05-07-02	--	--	--	--
07-19-02	--	--	--	--
05-07-02	--	--	--	--
07-19-02	--	--	--	--
05-03-02	--	--	--	--
07-19-02	--	--	--	--
05-03-02	--	--	--	--
07-23-02	--	--	--	--
05-03-02	--	--	--	--
07-23-02	--	--	--	--
05-07-02	--	--	--	--
07-19-02	--	--	--	--
07-16-02	<2	<1	1	13.7
05-03-02	--	--	--	--
07-23-02	--	--	--	--
05-07-02	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
385433119574702	090 N12 E18 02CCDC14 COLD CREEK 23	07-23-02	1125	ENVIRONMENTAL	5.4	6271.08	6.7
385432119574701	090 N12 E18 11BBAB5 COLD CREEK 24	05-07-02	1015	ENVIRONMENTAL	5.5	6271.97	5.5
		07-23-02	1110	ENVIRONMENTAL	5.5	6271.97	5.9
385433119574405	090 N12 E18 02CCDC15 COLD CREEK MP1B	10-23-01	1400	ENVIRONMENTAL	5.	6272.6	6.4
		07-09-02	1145	ENVIRONMENTAL	5.	6272.6	6.4
385433119574406	090 N12 E18 02CCDC16 COLD CREEK MP1D	10-23-01	1505	ENVIRONMENTAL	8.	6272.6	6.7
		07-09-02	1510	ENVIRONMENTAL	8.	6272.6	6.6
385433119574304	090 N12 E18 02CCDD8 COLD CREEK MP2B	10-23-01	1310	ENVIRONMENTAL	4.	6273.5	6.3
		07-09-02	1700	ENVIRONMENTAL	4.	6273.5	6.4
385433119574305	090 N12 E18 02CCDD9 COLD CREEK MP2D	10-23-01	1645	ENVIRONMENTAL	9.	6273.5	6.7
		07-10-02	1215	ENVIRONMENTAL	9.	6273.5	7.5
385432119574306	090 N12 E18 11BBAA8 COLD CREEK MP3B	10-23-01	1615	ENVIRONMENTAL	5.	6273.5	6.6
		07-10-02	1500	ENVIRONMENTAL	5.	6273.5	6.4
385432119574307	090 N12 E18 11BBAA9 COLD CREEK MP3D	10-24-01	0900	ENVIRONMENTAL	9.	6273.5	6.7
		07-11-02	1000	ENVIRONMENTAL	9.	6273.5	6.8
385432119574003	090 N12 E18 11BBAA7 COLD CREEK MP4B	10-24-01	1120	ENVIRONMENTAL	7.	6279.0	6.8
385433119574703	090 N12 E18 02CCDC15 COLD CREEK MP5B	07-11-02	1145	ENVIRONMENTAL	6.	6271.9	6.2
385433119574704	090 N12 E18 02CCDC16 COLD CREEK MP5D	07-11-02	1515	ENVIRONMENTAL	10.2	6271.9	6.4

Date	OXYGEN DIS-SOLVED (MG/L) (00300)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
07-23-02	.2	61	18.0	--	.032	.39	.014	.354	.331	--
05-07-02	--	127	6.9	--	.052	.19	.049	.110	.096	--
07-23-02	.2	311	16.0	--	.102	.16	.058	.028	.021	--
10-23-01	--	198	--	87	3.05	7.4	.003	.231	.259	5.9
07-09-02	--	306	--	82	1.14	1.5	.140	.222	.010	6.3
10-23-01	--	186	--	66	.407	.40	.008	.039	.028	1.9
07-09-02	--	195		68	.164	.25	.025	.031	.023	1.3
10-23-01	--	273	--	139	9.27	19	.009	.107	.179	10.0
07-09-02	--	335	--	100	5.37	1.7	.123	.159	.070	5.1
10-23-01	--	216	--	72	.136	.14	.007	.007	.043	1.2
07-10-02	--	200	--	60	.137	.12	.004	.026	.015	.7
10-23-01	--	97	--	51	.428	.40	.004	.151	.139	1.8
07-10-02	--	140	--	50	.185	.28	.049	.137	.009	1.6
10-24-01	--	116	--	52	.106	.11	.007	.192	.200	1.4
07-11-02	--	188	--	58	.104	.31	.059	.266	.261	2.9
10-24-01	--	53	--	22	.004	.11	.012	.011	.008	.5
07-11-02	--	258	--	35	.167	.44	.110	.156	.147	4.3
07-11-02	--	316	--	59	.370	.50	.204	.151	.006	3.0

Remark codes used in this report:
< -- Less than
E -- Estimated value

COLD CREEK MONITORING PROJECT

Water-level data were collected in the Cold Creek watershed as part of a cooperative study with El Dorado County Department of Transportation and California Tahoe Conservancy. The purpose of the study is to assess effects of urban runoff into a detention basin adjacent to Cold Creek.

Water Level Method--S, steel tape; V, calibrated electric tape.

The following sites are shown in figure 37.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	Time	(Feet)	Status	Method
COLD CREEK 01	385432119574001	5.55	6278.84	10/24/2001	1410	3.12		S
				04/01/2002		2.48		V
				04/10/2002	1231	2.69		V
				05/16/2002	1225	2.71		V
				06/11/2002	1047	2.67		V
				06/19/2002	0917	2.73		V
				07/11/2002	1502	3.02		S
				08/19/2002	1455	3.26		S
COLD CREEK 02	385432119574002	6.75	6281.57	10/24/2001	1405	5.66		S
				04/10/2002	1208	5.02		V
				05/16/2002	1310	5.16		V
				06/11/2002	1045	5.18		V
				06/19/2002	0915	5.24		V
				07/11/2002	1244	5.54		S
				08/19/2002	1451	5.67		S
COLD CREEK 03 DEEP	385432119574302	15.1	6281.21	10/24/2001	1326	9.12		S
				04/10/2002	1210	6.86		V
				05/16/2002	1122	7.39		V
				06/11/2002	0810	7.97		V
				06/19/2002	0817	8.31		V
				07/11/2002	1233	8.77		S
				08/19/2002	1248	9.10		S
COLD CREEK 03 SHALLOW	385432119574301	10.2	6281.23	10/24/2001	1315	9.35		S
				04/10/2002	1200	6.98		V
				05/16/2002	1128	7.60		V
				06/11/2002	0808	8.07		V
				06/19/2002	0815	8.4		V
				07/11/2002	1236	8.85		S
				08/19/2002	1245	9.50		S
COLD CREEK 04	385433119574201	10.2	6279.12	10/24/2001	1300	6.03		S
				04/01/2002		3.92		V
				04/10/2002	1010	4.54		V
				05/16/2002	1104	4.93		V
				06/11/2002	0813	5.19		V
				06/19/2002	0820	5.39		V
				07/11/2002	1231	5.78		S
				08/19/2002	1251	5.76		S
COLD CREEK 05	385433119574202	10.2	6278.03	10/24/2001	1258	6.07		S
				04/01/2002		4.21		V
				04/10/2002	1008	4.47		V
				05/16/2002	1105	4.90		V
				06/11/2002	0814	5.16		V
				06/19/2002	0822	5.38		V
				07/11/2002	1229	5.78		S
				08/19/2002	1254	6.08		S
COLD CREEK 06 DEEP	385433119574302	15.	6277.40	10/03/2001	1031	6.12		S
				10/24/2001	1336	6.19		S
				04/01/2002		4.50		V
				04/10/2002	1011	4.75		V
				05/16/2002	1115	5.18		V
				06/11/2002	0817	5.36		V
				07/11/2002	1226	5.88		S
				08/19/2002	1303	5.97		S

COLD CREEK MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	Time	(Feet)	Status	Method
COLD CREEK 06 SHALLOW	385433119574301	8.95	6277.37	10/03/2001	1028	6.11		S
				10/24/2001	1324	6.16		S
				04/01/2002		4.37		V
				04/10/2002	1028	4.70		V
				05/16/2002	1155	5.15		V
				06/11/2002	0815	5.32		V
				06/19/2002	0827	5.49		V
				07/11/2002	1228	5.88		S
				08/19/2002	1259	6.00		S
COLD CREEK 07	385433119574203	4.97	6273.29	10/24/2001	1256	1.87		S
				04/01/2002		0.07		V
				04/10/2002	1035	0.76		V
				05/16/2002	1107	1.08		V
				06/11/2002	0820	1.17		V
				06/19/2002	0825	1.29		V
				07/11/2002	1223	1.59		S
				08/19/2002	1310	1.82		S
COLD CREEK 08 DEEP	385432119574304	14.95	6278.15	10/03/2001	0919	6.54		S
				10/03/2001	1114	5.33		S
				10/24/2001	1303	5.37		S
				03/05/2002	1020	3.91		V
				04/10/2002	1156	3.75		V
				05/16/2002	1117	4.20		V
				06/11/2002	0850	4.44		V
				06/19/2002	0910	4.63		V
				07/11/2002	1219	5.06		S
				08/19/2002	1315	5.41		S
COLD CREEK 08 SHALLOW	385432119574303	9.2	6278.13	10/03/2001	0925	6.74		S
				10/03/2001	1115	5.23		S
				10/24/2001	1302	5.33		S
				03/05/2002	1024	3.81		V
				04/10/2002	1157	3.67		V
				05/16/2002	1116	4.11		V
				06/11/2002	0846	4.34		V
				06/19/2002	0911	4.56		V
				07/11/2002	1221	4.99		S
				08/19/2002	1313	5.31		S
COLD CREEK 09	385432119574305	9.9	6279.30	10/24/2001	1305	7.94		S
				04/01/2002		5.94		V
				04/10/2002	1155	6.24		V
				05/16/2002	1115	6.70		V
				06/11/2002	0845	6.95		V
				06/19/2002	0902	7.16		V
				07/11/2002	1217	7.62		S
				08/19/2002	1323	8.03		S
COLD CREEK 10	385433119574303	10.2	6276.39	04/10/2002	1006	4.38		V
				05/16/2002	1109	4.74		V
				06/11/2002	0821	4.80		V
				06/19/2002		4.96		V
				07/11/2002	1213	5.27		S
COLD CREEK 11	385434119574401	5.65	6272.83	10/24/2001	1252	2.46		S
				04/01/2002		1.92		V
				04/10/2002	1039	1.91		V
				05/16/2002	1110	2.01		V
				06/11/2002	0822	1.88		V
				06/19/2002		1.98		V
				07/11/2002	1211	2.23		S
				08/19/2002	1329	2.43		S
COLD CREEK 12	385434119574402	5.13	6275.14	04/10/2002	1011	2.06		V
				05/16/2002	1112	2.05		V
				06/11/2002	0823	1.90		V
				06/19/2002		1.99		V
				07/11/2002	1202	2.23		S

COLD CREEK MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	Time	(Feet)	Status	Method
				08/19/2002	1334	2.33		S
COLD CREEK 13 DEEP	385433119574402	15.25	6275.69	10/03/2001	1137	5.36		S
				10/24/2001	1345	5.31		S
				03/05/2002	1305	4.54		V
				04/01/2002		4.35		V
				04/10/2002	1058	4.39		V
				05/16/2002	1144	4.58		V
				06/11/2002	0827	4.62		V
				06/19/2002	0854	4.67		V
				07/11/2002	1203	5.04		S
				08/19/2002	1342	5.34		S
COLD CREEK 13 SHALLOW	385433119574401	10.2	6272.64	10/03/2001	0905	4.15		S
				10/24/2001	1347	4.18		S
				04/01/2002		2.65		V
				04/10/2002	1111	2.83		V
				05/16/2002	1141	3.19		V
				06/11/2002	0826	3.39		V
				06/19/2002	0854	3.48		V
				07/11/2002	1206	3.87		S
				08/19/2002	1339	4.10		S
COLD CREEK 14	385433119574403	5.48	6272.60	10/23/2001	0825	2.63		S
				10/24/2001	1350	2.61		S
				04/01/2002		2.33		V
				04/10/2002	1048	2.24		V
				05/16/2002	1145	2.23		V
				06/11/2002	0825	2.08		V
				06/13/2002	0855	2.08		V
				06/19/2002	0833	2.11		V
				07/11/2002	1202	2.37		S
				08/19/2002	1349	2.52		S
COLD CREEK 15	385432119574401	10.2	6278.33	10/24/2001	1248	7.51		S
				03/05/2002	1122	6.10		V
				04/01/2002		5.72		V
				04/10/2002	1147	6.03		V
				05/16/2002	1114	6.46		V
				06/11/2002	0843	6.62		V
				06/19/2002	0905	6.81		V
				07/11/2002	1157	7.29		S
COLD CREEK 16	385433119574404	7.15	6273.47	10/24/2001	1243	3.05		S
				04/01/2002		0.91		V
				04/10/2002	1120	1.70		V
				05/16/2002	0941	2.10		V
				06/11/2002	0813	2.24		V
				06/19/2002	0851	2.43		V
				07/11/2002	1155	3.02		S
				08/19/2002	1358	3.33		S
COLD CREEK 17 DEEP	385433119574502	10.65	6272.82	10/24/2001	1239	2.62		S
				04/01/2002		1.19		V
				04/10/2002	1124	1.38		V
				05/16/2002	0939	1.69		V
				06/11/2002	0832	1.75		V
				06/19/2002	0853	1.93		V
				07/11/2002	1151	2.40		S
				08/19/2002	1415	2.70		S
COLD CREEK 17 SHALLOW	385433119574501	6.66	6272.71	10/24/2001	1238	2.62		S
				04/01/2002		0.93		V
				04/10/2002	1123	1.19		V
				05/16/2002	0938	1.80		V
				06/11/2002	0831	2.02		V
				06/19/2002	0854	2.21		V
				07/11/2002	1153	2.85		S
				08/19/2002	1411	3.21		S

COLD CREEK MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	Time	(Feet)	Status	Method
COLD CREEK 18	385433119574503	5.08	6271.93	10/24/2001	1237	2.81		S
				04/01/2002		2.54		V
				04/10/2002	1126	2.40		V
				05/16/2002	0937	2.36		V
				06/11/2002	0834	2.10		V
				06/19/2002	0835	2.18		V
				07/11/2002	1149	2.47		S
				08/19/2002	1420	2.70		S
COLD CREEK 19 DEEP	385433119574505	10.	6272.11	10/24/2001	1234	2.99		S
				04/01/2002		2.82		V
				04/10/2002	1130	2.66		V
				05/16/2002	0935	2.43		V
				06/11/2002	0835	2.30		V
				06/19/2002	0840	2.41		V
				07/11/2002	1145	2.81		S
				08/19/2002	1425	3.03		S
COLD CREEK 19 SHALLOW	385433119574504	5.56	6272.19	10/24/2001	1235	3.14		S
				04/01/2002		2.01		V
				04/10/2002	1129	2.18		V
				05/16/2002	0934	2.56		V
				06/11/2002	0835	2.51		V
				06/19/2002	0839	2.63		V
				07/11/2002	1147	3.12		S
				08/19/2002	1423	3.38		S
COLD CREEK 20	385432119574501	7.15	6272.77	10/24/2001	1232	3.37		S
				04/01/2002		0.96		V
				04/10/2002	1132	1.44		V
				05/16/2002	0941	2.34		V
				06/11/2002	0842	2.63		V
				06/19/2002	0847	2.85		V
				07/11/2002	1143	3.37		S
				08/19/2002	1533	3.71		S
COLD CREEK 21	385432119574601	4.95	6272.19	10/24/2001	1230	3.37		S
				04/01/2002		1.93		V
				04/10/2002	1134	2.19		V
				05/16/2002	1101	2.41		V
				06/11/2002	0836	2.29		V
				06/19/2002	0850	2.41		V
				07/11/2002	1141	2.79		S
				08/19/2002	1436	3.19		S
COLD CREEK 22	385433119574701	5.57	6271.94	10/24/2001	1228	3.32		S
				04/01/2002		1.99		V
				04/10/2002	1140	2.35		V
				05/16/2002	0932	2.70		V
				06/11/2002	0837	2.64		V
				06/19/2002	0843	2.79		V
				07/11/2002	1135	3.12		S
				08/19/2002	1441	3.73		S
COLD CREEK 23	385433119574702	5.4	6271.08	10/24/2001	1225	2.65		S
				04/01/2002		1.84		V
				04/10/2002	1141	1.94		V
				05/16/2002	0930	2.15		V
				06/11/2002	0840	2.02		V
				06/19/2002	0845	2.10		V
				07/11/2002	1136	2.49		S
				08/19/2002	1443	2.82		S
COLD CREEK 24	385432119574701	5.5	6271.97	10/24/2001	1224	3.65		S
				04/01/2002		1.78		V
				04/10/2002	1142	2.33		V
				05/16/2002	0931	2.98		V
				06/11/2002	0838	3.01		V

COLD CREEK MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	Time	(Feet)	Status	Method
				06/19/2002	0841	3.19		V
				07/11/2002	1137	3.62		S
				08/19/2002	1446	3.98		S
COLD CREEK MP1B	385433119574405	5.	6272.6	10/23/2001	1400	2.60		S
				07/09/2002	1045	2.30		S
COLD CREEK MP1D	385433119574406	8.	6272.6	10/23/2001	1500	2.60		S
				07/09/2002	1410	2.50		S
COLD CREEK MP2B	385433119574304	4.	6273.5	10/23/2001	1300	2.50		S
				07/09/2002	1600	2.70		S
COLD CREEK MP2D	385433119574305	9.	6273.5	10/23/2001	1645	2.50		S
				07/10/2002	1115	2.07		S
COLD CREEK MP3B	385432119574306	5.	6273.5	10/23/2001	1615	3.20		S
				07/10/2002	1400	2.50		S
COLD CREEK MP3D	385432119574307	9.	6273.5	10/24/2001	0900	3.20		S
				07/11/2002	0900	2.20		S
COLD CREEK MP4B	385432119574003	7.	6279.0	10/24/2001	1120	2.80		S
COLD CREEK MP5B	385433119574703	6.	6271.9	07/11/2002	1045	3.09		S
COLD CREEK MP5D	385433119574704	10.2	6271.9	07/11/2002	1400	3.14		S

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency from surface-water sites throughout the Lake Tahoe Basin to monitor long-term nutrient and sediment concentrations. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality-assurance samples are defined in the introductory text section titled “Water Quality-Control Data.”The following sites are shown in figure 15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)
10336580	UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA	08-12-02	1715	ENVIRONMENTAL	2.6	604	8.1
		08-12-02	1720	**REPLICATE**	2.6	604	8.1
103366092	UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA	08-12-02	1435	ENVIRONMENTAL	7.5	608	8.7
		08-12-02	1440	**REPLICATE**	7.5	608	8.7
10336610	UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA	08-12-02	1200	ENVIRONMENTAL	4.3	610	9.6
		08-12-02	1205	**REPLICATE**	4.3	610	9.6
10336645	GENERAL CREEK NEAR MEEKS BAY, CA	08-21-02	1820	ENVIRONMENTAL	.84	605	6.9
		08-21-02	1825	**REPLICATE**	.84	605	6.9
10336660	BLACKWOOD CREEK NEAR TAHOE CITY, CA	08-21-02	1710	ENVIRONMENTAL	2.1	606	7.4
		08-21-02	1715	**REPLICATE**	2.1	606	7.4
10336674	WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA	08-21-02	1240	ENVIRONMENTAL	.52	--	--
		08-21-02	1245	**REPLICATE**	.52	--	--
10336676	WARD CREEK AT HIGHWAY 89 NEAR TAHOE PINES, CA	08-21-02	1545	ENVIRONMENTAL	.45	608	7.6
		08-21-02	1550	**REPLICATE**	.45	608	7.6
10336698	THIRD CREEK NEAR CRYSTAL BAY, NV	08-13-02	1445	ENVIRONMENTAL	.96	609	7.8
		08-13-02	1450	**REPLICATE**	.96	609	7.8
103366993	INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV	08-13-02	0840	ENVIRONMENTAL	1.8	596	9.2
		08-13-02	0845	**REPLICATE**	1.8	596	9.2
103366995	INCLINE CREEK AT HIGHWAY 28 AT INCLINE VILLAGE, NV	08-13-02	1045	ENVIRONMENTAL	1.5	609	8.6
		08-13-02	1050	**REPLICATE**	1.5	609	8.6
10336700	INCLINE CREEK NEAR CRYSTAL BAY, NV	08-13-02	1250	ENVIRONMENTAL	2.3	610	8.4
		08-13-02	1255	**REPLICATE**	2.3	610	8.4
10336730	GLENBROOK CREEK AT GLENBROOK, NV	08-14-02	1825	ENVIRONMENTAL	.03	608	6.5
		08-14-02	1830	**REPLICATE**	.03	608	6.5
10336740	LOGAN HOUSE CREEK NEAR GLENBROOK, NV	08-14-02	1625	ENVIRONMENTAL	.05	601	8.2
		08-14-02	1630	**REPLICATE**	.05	601	8.2
10336760	EDGEWOOD CREEK AT STATELINE, NV	08-14-02	1035	ENVIRONMENTAL	1.7	609	7.5
		08-14-02	1040	**REPLICATE**	1.7	609	7.5

Date	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
08-12-02	101	--	43	22.5	14.5	.003	.26	.017	.031	.020	65	1	.01
08-12-02	101	--	43	22.5	14.5	.003	.14	.018	.027	.021	63	--	--
08-12-02	118	6.9	96	27.5	19.0	.003	.14	.007	.015	.004	183	1	.02
08-12-02	118	6.9	96	27.5	19.0	<.003	.19	.008	.013	.004	175	--	--
08-12-02	130	7.5	99	23.5	19.0	<.003	.18	.009	.019	.003	310	3	.03
08-12-02	130	7.5	99	23.5	19.0	<.003	.17	.009	.019	.003	326	--	--
08-21-02	88	--	57	16.5	16.0	.003	.12	.003	.032	.016	167	1	<.01
08-21-02	88	--	57	16.5	16.0	<.003	.12	.002	.029	.016	165	--	--
08-21-02	97	--	71	17.5	17.0	<.003	.09	.002	.023	.009	101	3	.02
08-21-02	97	--	71	17.5	17.0	<.003	.07	.002	.023	.008	100	--	--
08-21-02	--	--	43	19.8	14.3	.003	.05	.002	.014	.003	19	1	<.01
08-21-02	--	--	43	19.8	14.3	<.003	.05	.002	.013	.003	16	--	--
08-21-02	100	--	71	18.0	17.5	<.003	.07	.003	.022	.007	34	1	<.01
08-21-02	100	--	71	18.0	17.5	<.003	.07	.002	.020	.006	31	--	--
08-13-02	99	7.0	70	23.0	16.0	.003	.10	.016	.023	.013	419	3	.01
08-13-02	99	7.0	70	23.0	16.0	<.003	.05	.013	.027	.012	421	--	--
08-13-02	102	--	37	11.5	9.0	<.003	.28	.019	.023	.012	98	1	<.01
08-13-02	102	--	37	11.5	9.0	<.003	.22	.019	.023	.013	110	--	--
08-13-02	98	7.0	50	20.0	11.0	<.003	.17	.025	.028	.011	608	4	.02
08-13-02	98	7.0	50	20.0	11.0	<.003	.15	.026	.028	.012	557	--	--
08-13-02	100	7.0	79	23.0	13.0	<.003	.19	.021	.032	.012	586	5	.03
08-13-02	100	7.0	79	23.0	13.0	<.003	.14	.019	.028	.011	526	--	--
08-14-02	80	7.6	495	20.0	14.4	.020	.35	.020	.085	.012	2270	16	<.01
08-14-02	80	7.6	495	20.0	14.4	.020	.36	.020	.082	.012	2030	--	--
08-14-02	96	7.4	153	26.5	11.5	.004	.08	.020	.012	.004	57	1	<.01
08-14-02	96	7.4	153	26.5	11.5	.003	1.0	.022	.013	.004	51	--	--
08-14-02	91	6.9	102	21.0	14.0	.010	.29	.011	.054	.032	649	1	<.01
08-14-02	91	6.9	102	21.0	14.0	.010	.18	.011	.052	.033	619	--	--

Remark codes used in this report:

< -- Less than

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency to determine the nutrient concentrations in five lakes and associated outlet streams in the Lake Tahoe Basin. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data." The following sites are shown in figure 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING DEPTH (M) (00098)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)
103366082	ECHO CREEK AT OUTLET NEAR PHILLIPS CA	06-06-02	0935	ENVIRONMENTAL	77	--	--
		08-02-02	1010	ENVIRONMENTAL	.35	--	--
		08-02-02	1020	**SEQUENTIAL REPLICATE**	*.35*	--	--
10336626	TAYLOR CREEK NEAR CAMP RICHARDSON CA	06-03-02	1440	ENVIRONMENTAL	116	--	--
		06-03-02	1441	**SEQUENTIAL REPLICATE**	*116*	--	--
		08-02-02	1250	ENVIRONMENTAL	7.7	--	--
10336715	MARLETTE CREEK NEAR CARSON CITY, NV	06-04-02	1340	ENVIRONMENTAL	1.4	--	--
		08-01-02	1320	ENVIRONMENTAL	.04	--	--
385005120025801	LOWER ECHO LAKE EAST SAMPLING POINT	08-22-02	1240	ENVIRONMENTAL	--	1.0	9.0
		08-22-02	1300	ENVIRONMENTAL	--	13.0	9.0
385023120032501	LOWER ECHO LAKE SAMPLE SITE NEAR CENTER	05-29-02	1345	ENVIRONMENTAL	--	12.0	7.0
		05-29-02	1430	ENVIRONMENTAL	--	*5.0*	*7.0*
		08-22-02	0920	ENVIRONMENTAL	--	1.0	10.3
		08-22-02	0940	ENVIRONMENTAL	--	12.0	10.3
		08-22-02	1008	**FIELD BLANK**	--	--	--
385025120035901	LOWER ECHO LAKE SOUTHEWEST SAMPLING POINT	08-22-02	1010	ENVIRONMENTAL	--	1.0	>4.3
385026120040301	ECHO LAKES CHANNEL BETWEEN UPPER AND LOWER LAKES	08-22-02	1040	ENVIRONMENTAL	--	.10	--
385029120042001	UPPER ECHO LAKE EAST SAMPLING POINT	08-26-02	1010	ENVIRONMENTAL	--	1.0	7.0
		08-26-02	1030	ENVIRONMENTAL	--	10.0	7.0
		08-26-02	1045	ENVIRONMENTAL	--	22.0	7.0
385035120042301	UPPER ECHO LAKE SAMPLE SITE NEAR CENTER	05-30-02	1145	ENVIRONMENTAL	--	5.0	>7.0
		05-30-02	1300	ENVIRONMENTAL	--	2.0	>7.0
		08-26-02	1130	ENVIRONMENTAL	--	1.0	6.5
		08-26-02	1150	ENVIRONMENTAL	--	10.0	6.5
385036120034801	LOWER ECHO LAKE NORTHWEST SAMPLING POINT	08-22-02	1140	ENVIRONMENTAL	--	1.0	9.5
		08-22-02	1200	ENVIRONMENTAL	--	13.0	9.5
385038120044201	UPPER ECHO LAKE SOUTHWEST SAMPLING POINT	08-26-02	1245	ENVIRONMENTAL	--	1.0	7.0
		08-26-02	1300	ENVIRONMENTAL	--	8.0	7.0
385043120044801	UPPER ECHO LAKE NEAR INLET SAMPLING POINT	08-26-02	1330	ENVIRONMENTAL	--	1.0	>1.2
385256120040501	FALLEN LEAF LAKE SITE 2 AT FALLEN LEAF CA	08-14-02	1250	ENVIRONMENTAL	--	1.0	14.6
		08-14-02	1320	ENVIRONMENTAL	--	20.0	14.6
385356120035001	FALLEN LEAF LAKE SAMPLE SITE 1	06-03-02	1150	ENVIRONMENTAL	--	20.0	14.1
		06-03-02	1215	ENVIRONMENTAL	--	2.0	14.1
		08-14-02	1140	ENVIRONMENTAL	--	20.0	15.6
		08-14-02	1200	ENVIRONMENTAL	--	25.0	15.6
385450120032101	FALLEN LEAF LAKE EAST SAMPLING POINT, CA	08-14-02	1020	ENVIRONMENTAL	--	1.0	14.6
		08-14-02	1030	ENVIRONMENTAL	--	25.0	14.6
390621119543201	SPOONER LAKE WEST, NV SAMPLING POINT	07-31-02	1215	ENVIRONMENTAL	--	1.0	>1.8
390622119542601	SPOONER LAKE SOUTH, NV SAMPLING POINT	07-31-02	1030	ENVIRONMENTAL	--	1.0	>.6
390625119542801	SPOONER LAKE SAMPLE SITE NEAR CENTER	06-05-02	0950	ENVIRONMENTAL	--	3.5	3.5
		06-05-02	1010	ENVIRONMENTAL	--	1.0	3.5
		07-31-02	0900	ENVIRONMENTAL	--	1.0	2.5
		07-31-02	0920	ENVIRONMENTAL	--	3.0	2.5
390628119542501	SPOONER LAKE EAST, NV SAMPLING POINT	07-31-02	1115	ENVIRONMENTAL	--	.50	>.5
390628119544301	SPOONER LAKE NORTH, NV SAMPLING POINT	07-31-02	1310	ENVIRONMENTAL	--	1.0	>.8
390949119535501	MARLETTE LAKE SOUTH, NV SAMPLE POINT	08-01-02	1220	ENVIRONMENTAL	--	1.0	>6.5
391010119534301	MARLETTE LAKE SOUTHEAST, NV SAMPLING POINT	08-01-02	1140	ENVIRONMENTAL	--	6.7	>6.7
391033119540301	MARLETTE LAKE SAMPLE SITE NR CENTER	06-04-02	1115	ENVIRONMENTAL	--	8.0	5.0
		06-04-02	1135	ENVIRONMENTAL	--	2.0	5.0
		08-01-02	0940	ENVIRONMENTAL	--	1.0	7.5
		08-01-02	0955	ENVIRONMENTAL	--	11.0	7.5
391043119535501	MARLETTE LAKE EAST, NV SAMPLING POINT	08-01-02	1115	ENVIRONMENTAL	--	1.0	7.8
391056119541801	MARLETTE LAKE NORTH, NV SAMPLING POINT	08-01-02	1040	ENVIRONMENTAL	--	1.0	8.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
06-06-02	585	8.4	102	--	6	18.0	12.2	.005	.19	.008	<.001	.003
08-02-02	585	6.2	87	--	48	19.0	18.9	.016	.12	.014	.002	.010
08-02-02	*585*	*6.2*	*87*	--	*48*	*19.0*	*18.9*	*.015*	*.19*	*.012*	*.002*	*.009*
06-03-02	606	6.5	81	--	19	24.5	15.0	.009	.04	.003	<.001	.004
06-03-02	*606*	*6.5*	*81*	--	*19*	*24.5*	*15.0*	*.005*	*.13*	*.002*	*.001*	*.004*
08-02-02	605	6.7	100	--	22	22.0	23.2	.008	.10	.010	<.001	.009
06-04-02	578	4.5	59	--	37	--	14.7	.010	.59	.015	.003	.014
08-01-02	578	7.3	87	--	52	23.0	10.7	.013	.35	.065	.003	.078
08-22-02	585	7.2	99	--	6	23.0	17.6	.006	.14	.006	<.001	.003
08-22-02	585	10.3	117	--	6	23.0	9.1	.004	.12	.004	<.001	.004
05-29-02	588	8.4	87	--	6	--	5.7	.006	.20	.010	.001	.005
05-29-02	*588*	*8.6*	*91*	--	*6*	--	*6.7*	*.019*	*.14*	*.016*	*.001*	*.005*
08-22-02	585	7.0	95	--	7	15.0	17.1	.009	.07	.006	<.001	.003
08-22-02	585	9.7	114	--	7	15.0	10.5	.009	.10	.007	<.001	.004
08-22-02	--	--	--	--	--	--	--	*.006*	*<.035*	*.004*	*<.001*	*<.002*
08-22-02	585	7.1	96	--	7	22.0	17.0	.007	.08	.004	<.001	.003
08-22-02	585	7.0	94	--	6	23.0	16.4	.007	.13	.006	<.001	.004
08-26-02	588	6.9	94	--	5	18.5	17.4	.008	.12	.005	<.001	.005
08-26-02	588	9.9	112	--	5	18.5	9.2	.005	.36	.004	<.001	.006
08-26-02	588	2.8	28	--	8	18.5	5.0	.102	.05	.031	<.001	.007
05-30-02	585	8.8	90	--	5	--	5.0	<.003	.17	.035	.001	.004
05-30-02	585	8.7	91	--	5	--	6.1	.008	.16	.040	<.001	.005
08-26-02	588	6.8	93	--	5	21.5	17.6	.007	.12	.005	<.001	.005
08-26-02	588	8.6	99	--	5	21.5	10.1	.009	.15	.006	<.001	.007
08-22-02	585	7.1	97	--	7	20.5	17.2	.004	.10	.005	<.001	.003
08-22-02	585	9.8	112	--	7	20.5	9.4	<.003	.15	.003	<.001	.004
08-26-02	588	6.9	94	--	5	21.5	17.4	.009	.11	.007	<.001	.005
08-26-02	588	9.0	111	--	5	21.5	13.0	.006	.11	.005	<.001	.006
08-26-02	588	7.1	98	--	5	23.0	18.1	.006	.10	.005	<.001	.005
08-14-02	608	9.6	134	--	20	26.0	20.2	.006	.07	.004	.001	.003
08-14-02	608	13.2	141	--	19	26.0	8.2	.006	.10	.004	.001	.003
06-03-02	606	8.9	94	--	19	16.5	7.5	.006	.17	.005	.001	.005
06-03-02	606	8.7	101	--	19	16.5	11.8	.004	.25	.003	<.001	.002
08-14-02	608	13.8	150	--	20	22.0	8.9	.008	.07	.005	.001	.004
08-14-02	608	13.8	145	--	20	22.0	7.7	.006	.06	.004	.001	.004
08-14-02	608	7.4	102	--	21	22.0	19.5	.010	.08	.003	.001	.003
08-14-02	608	9.6	101	--	20	22.0	7.5	.007	.09	.004	.001	.003
07-31-02	596	9.2	135	10.7	387	25.0	21.8	.012	.35	.008	<.001	.015
07-31-02	596	7.9	115	10.2	392	24.5	21.3	.010	.82	.004	.001	.031
06-05-02	596	2.4	31	8.2	413	15.0	15.0	.006	.45	.003	.001	.017
06-05-02	596	9.7	132	9.5	364	15.0	18.1	.004	.46	.003	.001	.017
07-31-02	596	7.6	110	9.7	379	15.5	20.9	.015	--	.006	<.001	.014
07-31-02	596	.2	3	6.9	534	15.5	18.0	.013	.79	.012	<.001	.029
07-31-02	596	9.2	137	10.5	395	24.0	22.3	.005	--	.007	.001	.060
07-31-02	596	7.0	101	10.5	379	24.5	20.7	.007	.12	.006	.002	.050
08-01-02	578	7.8	114	--	41	27.0	20.0	.006	.20	.004	<.001	.005
08-01-02	578	6.2	89	--	41	27.0	19.2	.005	.20	.003	<.001	.005
06-04-02	578	2.5	28	--	36	18.5	7.9	.013	.25	.009	.001	.021
06-04-02	578	3.6	45	--	36	18.5	12.9	.012	.09	.005	.001	.012
08-01-02	578	7.4	107	--	41	20.0	19.4	.007	.26	.005	<.001	.006
08-01-02	578	.4	5	--	46	20.0	10.5	.029	.24	.005	<.001	.017
08-01-02	578	7.2	105	--	41	26.0	19.7	.008	.18	.006	.001	.005
08-01-02	578	7.3	105	--	41	22.0	19.4	.007	.14	.004	<.001	.005

		Date	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT DIS-CHARGE SUS-PENDED (T/DAY) (80155)
103366082	ECHO CREEK AT OUTLET NEAR PHILLIPS CA	08-02-02	.35	2	42	<1
10336626	TAYLOR CREEK NEAR CAMP RICHARDSON CA	08-02-02	7.7	1	25	<1
10336715	MARLETTE CREEK NEAR CARSON CITY, NV	08-01-02	.04	14	74	<1

Remark codes used in this report:
 > -- Greater than
 < -- Less than

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency to determine the effectiveness of the prohibition of carbureted 2-stroke engines in the Lake Tahoe Basin. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data." The following sites are shown in figure 18 and 29.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	[a]BENZENE 14BRFL-SURROG VOC UNFLTRD REC PERCENT (99834)	BENZENE TOTAL (UG/L) (34030)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)
385023120032501	LOWER ECHO LAKE SAMPLE SITE NEAR CENTER	05-29-02	1215	ENVIRONMENTAL	70.8	E.02	<.10
		07-09-02	0925	ENVIRONMENTAL	96.7	.11	<.10
		07-09-02	0935	**REPLICATE**	*89.4*	*.11*	*<.10*
		08-26-02	0900	ENVIRONMENTAL	84.9	E.09	<.10
		08-26-02	0910	**REPLICATE**	*80.2*	*E.09*	*<.10*
385606120004401	LAKE TAHOE SAMPLE POINT AT TAHOE KEYS, CA	05-28-02	1350	ENVIRONMENTAL	72.5	E.03	<.10
		07-08-02	1315	ENVIRONMENTAL	89.3	E.03	<.10
		08-19-02	1330	ENVIRONMENTAL	90.2	.10	<.10
385631120032001	LAKE TAHOE SAMPLE POINT NR KIVA BEACH, CA	05-28-02	1245	ENVIRONMENTAL	72.6	E.01	<.10
		07-08-02	1235	ENVIRONMENTAL	90.1	E.07	<.10
		08-19-02	1220	ENVIRONMENTAL	94.9	E.10	<.10
385636120005701	LAKE TAHOE SAMPLE POINT AT TAHOE KEYS MARINA, CA	05-28-02	1330	ENVIRONMENTAL	73.8	E.02	<.10
		07-08-02	1255	ENVIRONMENTAL	98.9	E.10	<.10
		08-19-02	1305	ENVIRONMENTAL	93.9	.12	<.10
385704119573001	LAKE TAHOE SAMPLE POINT AT SKI RUN MARINA, CA	05-28-02	1430	ENVIRONMENTAL	73.9	E.04	<.10
		07-08-02	1340	ENVIRONMENTAL	86.3	.13	<.10
		08-19-02	1415	ENVIRONMENTAL	95.7	.11	<.10
385708120053101	EMERALD BAY SAMPLE POINT OFF SOUTH SIDE OF BAY	05-28-02	1210	ENVIRONMENTAL	73.9	E.06	<.10
		07-08-02	1145	ENVIRONMENTAL	100	.26	<.10
		07-08-02	1155	**REPLICATE**	*92.1*	*.26*	*<.10*
		08-19-02	1140	ENVIRONMENTAL	94.3	.27	<.10
		08-19-02	1150	**REPLICATE**	*94.2*	*.26*	*<.10*
390026119570601	LAKE TAHOE SAMPLE POINT AT ZEPHYR COVE, NV	05-28-02	1450	ENVIRONMENTAL	73.0	E.05	<.10
		07-08-02	1400	ENVIRONMENTAL	92.6	.20	<.10
		08-19-02	1440	ENVIRONMENTAL	99.2	.14	<.10
390618120021101	LAKE TAHOE SAMPLE POINT - MID LAKE	09-03-02	0915	**FIELD BLANK**	*101*	*<.04*	*<.10*
		09-03-02	0920	ENVIRONMENTAL	96.3	E.02	<.10
391006120080101	LAKE TAHOE SAMPLE POINT AT TAHOE CITY, CA	05-28-02	1050	ENVIRONMENTAL	72.4	E.02	<.10
		08-19-02	1040	ENVIRONMENTAL	94.6	E.06	<.10
391415119564901	LAKE TAHOE SAMPLE POINT AT INCLINE BEACH, NV	05-28-02	0920	**FIELD BLANK**	*74.0*	*<.04*	*<.10*
		05-28-02	0925	ENVIRONMENTAL	72.7	E.02	<.10
		07-08-02	0915	**FIELD BLANK**	*91.4*	*<.04*	*<.10*
		07-08-02	0925	ENVIRONMENTAL	88.4	.12	<.10
		08-19-02	0850	**FIELD BLANK**	*94.4*	*<.04*	*<.10*
		08-19-02	0925	ENVIRONMENTAL	94.3	E.07	<.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	[a]ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	[a]TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)
05-29-02	108	<.05	<.08	E.01	<.2	E.05	<.07	92.5	.11
07-09-02	89.5	<.05	<.08	E.04	E.1	E.19	E.09	95.8	.22
07-09-02	*102*	*<.05*	*<.08*	*E.02*	*<.2*	*E.11*	*E.05*	*97.6*	*.22*
08-26-02	115	<.05	<.08	E.05	E.1	E.10	.15	94.7	.27
08-26-02	*120*	*<.05*	*<.08*	*E.05*	*E.1*	*E.11*	*.15*	*93.5*	*.28*
05-28-02	107	<.05	<.08	<.03	<.2	<.06	<.07	93.8	E.02
07-08-02	101	<.05	<.08	<.03	.5	E.01	<.07	98.0	E.02
08-19-02	124	<.05	<.08	<.03	.4	E.03	E.02	101	E.06
05-28-02	113	<.05	<.08	<.03	<.2	<.06	<.07	94.1	E.04
07-08-02	100	<.05	<.08	E.03	<.2	E.13	E.05	96.6	.25
08-19-02	124	<.05	<.08	E.04	<.2	E.19	E.08	102	.36
05-28-02	115	<.05	<.08	<.03	<.2	E.02	<.07	94.4	E.05
07-08-02	91.3	<.05	<.08	E.08	<.2	.28	.12	97.8	.35
08-19-02	123	<.05	<.08	E.05	<.2	.24	.10	101	.46
05-28-02	108	<.05	<.08	E.02	<.2	E.07	E.03	93.2	.17
07-08-02	114	<.05	<.08	E.05	<.2	.27	E.10	97.2	.57
08-19-02	125	<.05	<.08	E.05	<.2	.23	.10	101	.45
05-28-02	108	<.05	<.08	E.02	<.2	E.09	E.03	93.2	.19
07-08-02	90.2	<.05	<.08	.13	.2	.63	.27	97.9	.76
07-08-02	*101*	*<.05*	*<.08*	*E.08*	*E.1*	*.44*	*.18*	*96.7*	*.75*
08-19-02	122	<.05	<.08	E.02	E.1	.26	.10	100	.47
08-19-02	*122*	*<.05*	*<.08*	*E.02*	*E.1*	*.26*	*E.10*	*101*	*.47*
05-28-02	105	<.05	<.08	E.03	<.2	E.10	E.04	91.8	.17
07-08-02	102	<.05	<.08	.12	<.2	.58	.23	96.9	.71
08-19-02	126	<.05	<.08	E.08	<.2	.44	.18	101	.55
09-03-02	*113*	*<.05*	*<.08*	*<.03*	*<.2*	*<.06*	*<.07*	*102*	*<.05*
09-03-02	112	<.05	<.08	<.03	<.2	E.02	<.07	101	E.04
05-28-02	108	<.05	<.08	<.03	<.2	E.02	<.07	92.9	E.06
08-19-02	125	<.05	<.08	E.02	<.2	E.09	E.04	102	.21
05-28-02	*108*	*<.05*	*<.08*	*<.03*	*<.2*	*<.06*	*<.07*	*93.4*	*<.05*
05-28-02	107	<.05	<.08	<.03	<.2	E.02	<.07	92.2	E.04
07-08-02	*106*	*<.05*	*<.08*	*<.03*	*<.2*	*<.06*	*<.07*	*99.0*	*<.05*
07-08-02	116	<.05	<.08	E.04	<.2	E.20	E.08	98.5	.37
08-19-02	*125*	*<.05*	*<.08*	*<.03*	*<.2*	*<.06*	*<.07*	*101*	*<.05*
08-19-02	124	<.05	<.08	E.03	<.2	E.13	E.06	102	.22

Remark codes used in this report:
< -- Less than
E -- Estimated value

[a] Listed values are recovery percentages for indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency from ground-water sites throughout the Lake Tahoe Basin to monitor long-term nutrient concentrations. Samples were analyzed by the University of California, Davis, Tahoe Research Group. The following sites are shown in figure 37.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
385131120021601	090 N12 E18 29BCCC1	09-04-02	1130	ENVIRONMENTAL	--	--	--
385423119593601	090 N12 E18 09ABC 1	09-04-02	1030	ENVIRONMENTAL	--	380.	6240.
385522119580204	090 N12 E18 03DAAB4 USGS TCF-4	09-12-02	1245	ENVIRONMENTAL	65.09	135.	6260.
385613120014801	090 N13 E18 06ABBC1 USGS TM-2A	06-27-02	1315	ENVIRONMENTAL	5.13	20.	6235.
385627120034401	090 N13 E17 26DDBA1 USFS - Baldwin Beach 1	09-03-02	1200	ENVIRONMENTAL	--	100.	6235.
385644119574601	090 N13 E18 33CAD 1	06-26-02	1500	ENVIRONMENTAL	--	76.	6235.
385824119550401	090 N13 E18 23CBB 1 Spring	06-26-02	1245	ENVIRONMENTAL	--	--	6335.
385857119564201	090 N13 E18 22BAA 1	06-26-02	1100	ENVIRONMENTAL	--	200.	6275.
385902119571301	090 N13 E18 16CCC 1	08-13-02	1050	ENVIRONMENTAL	--	58.	6235.
390157120070501	090 N14 E17 29ADC 1	08-14-02	1230	ENVIRONMENTAL	--	320.	6315.
390352120090201	090 N14 E17 18BBCA1	09-10-02	1115	ENVIRONMENTAL	--	323.	6380.
390354120080701	090 N14 E17 18AADB1 Cedar Well	08-12-02	1330	ENVIRONMENTAL	--	--	6305.
390510120094101	090 N14 E16 01CADD1	08-12-02	1520	ENVIRONMENTAL	--	114.	6270.
390539119561001	090 N14 E18 10ADA 1	08-15-02	1300	ENVIRONMENTAL	10.07	27.	6270.
390541119562501	090 N14 E18 10ABD 1	08-15-02	1130	ENVIRONMENTAL	--	28.	6235.
390902120090301	090 N15 E17 18BCB 1	08-14-02	1120	ENVIRONMENTAL	--	445.	6480.
390935120084001	090 N15 E17 07CADB1 Tahoe Tree	08-14-02	1330	ENVIRONMENTAL	--	265.	6260.
391031120075901	090 N15 E17 05ABBC1	08-30-02	1330	ENVIRONMENTAL	--	160.	6245.
391038120090001	090 N15 E17 06BCC 1	08-14-02	1030	ENVIRONMENTAL	--	223.	6580.
391158119555001	090 N15 E18 02BBDA1 Sand Harbor Well	09-12-02	1515	ENVIRONMENTAL	--	110.	6230.
391425120035301	090 N16 E17 14BBCB1	09-10-02	1430	ENVIRONMENTAL	--	415.	6440.
391456119563001	090 N16 E18 15DBD 1	08-27-02	1145	ENVIRONMENTAL	12.02	14.	6360.
391525119563101	090 N16 E18 15AAB 1	08-27-02	1350	ENVIRONMENTAL	22.42	39.	6550.
391533119563001	090 N16 E18 10DDC 1	08-30-02	0945	ENVIRONMENTAL	37.23	46.	6625.
391552120045101	090 N16 E17 15CCAA1	08-30-02	1120	ENVIRONMENTAL	--	218.	6310.
385538119585001	090 N12 E18 03BCC 1	06-27-02	1415	ENVIRONMENTAL	--	--	6260.
385559120001301	090 N12 E18 05AADD1	06-27-02	1145	ENVIRONMENTAL	--	318.	6230.
385651119581701	090 N12 E18 03ABA 1	08-13-02	1445	ENVIRONMENTAL	--	125.	6260.
385742119565701	090 N13 E18 27BDA 1	08-13-02	1310	ENVIRONMENTAL	17.29	23.	6245.
385816119563001	090 N13 E18 22DCA 1	08-15-02	1415	ENVIRONMENTAL	--	24.	6260.
390022119565201	090 N13 E18 10BDBD1	06-28-02	1045	ENVIRONMENTAL	16.48	31.	6240.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	FLOW RATE (G/M) (00059)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)
09-04-02	--	--	--	8.3	150	18.0	11.0	--	.003	<.04	.369	.035	.030
09-04-02	--	--	--	8.4	107	--	10.5	--	.010	<.04	.009	.083	.073
09-12-02	1.0	--	4040	6.5	81	23.5	9.0	--	.139	.20	.004	.025	.017
06-27-02	--	--	4080	6.2	266	21.0	9.5	--	.640	2.0	.117	.060	.046
09-03-02	--	--	4040	7.8	120	26.0	10.0	--	.003	<.04	.042	.086	.081
06-26-02	--	--	4040	6.6	189	27.0	12.0	--	.007	.06	.565	.032	.020
06-26-02	--	.80	4080	6.9	161	23.5	10.0	--	.004	.04	.137	.026	.016
06-26-02	--	--	4040	6.1	368	23.0	9.5	--	.006	.06	.125	.028	.011
08-13-02	--	--	--	7.0	172	23.5	15.5	--	<.003	<.04	.179	.016	.007
08-14-02	--	--	--	7.0	124	25.0	8.0	--	.018	<.04	.082	.107	.097
09-10-02	--	--	--	6.5	120	19.0	5.5	--	.003	.11	.482	.048	.038
08-12-02	--	--	4040	6.8	119	30.5	7.0	--	<.003	<.04	.109	.036	.029
08-12-02	--	--	4040	6.6	119	25.5	6.5	--	<.003	<.04	.047	.041	.026
08-15-02	--	--	4080	6.9	296	25.0	8.0	--	.003	.07	.118	.088	.073
08-15-02	--	--	4080	6.4	214	23.5	10.0	--	<.003	.06	.045	.048	.039
08-14-02	--	--	--	7.4	182	27.0	7.0	--	.014	.08	.132	.064	.050
08-14-02	--	--	--	7.7	172	29.0	13.5	--	.585	.41	.239	.282	.277
08-30-02	--	--	4040	7.6	159	--	10.0	--	<.003	<.04	.034	.068	.060
08-14-02	--	--	--	7.3	112	23.0	7.5	--	.018	<.04	.128	.058	.051
09-12-02	--	--	4040	6.2	222	22.5	9.5	--	.007	.09	.014	.019	.013
09-10-02	--	--	4040	7.8	196	19.0	11.0	--	.003	<.04	.044	.048	.036
08-27-02	--	--	4080	6.2	310	18.5	10.5	--	.020	.21	.033	.011	.002
08-27-02	--	--	--	6.1	263	21.5	13.0	--	<.003	<.04	1.31	.030	.018
08-30-02	--	--	4080	5.6	212	18.5	9.0	--	.005	<.04	4.17	.063	.046
08-30-02	--	--	--	7.0	171	17.0	8.0	--	.009	<.04	.031	.033	.022
06-27-02	--	--	4040	6.4	224	27.0	10.5	34.7	.009	<.04	1.41	.026	.016
06-27-02	--	--	--	8.2	101	21.0	10.0	2.58	.006	<.04	.353	.027	.017
08-13-02	--	--	--	6.9	102	33.0	10.0	3.14	<.003	.04	1.14	.024	.013
08-13-02	--	--	4080	6.8	414	28.0	10.5	44.2	.012	.07	.002	.027	.004
08-15-02	--	--	4080	6.4	192	30.5	10.5	9.36	<.003	<.04	7.82	.015	.009
06-28-02	--	--	4080	6.2	467	18.0	10.0	52.5	.009	.05	4.36	.033	.017

Remark codes used in this report:
  < -- Less than

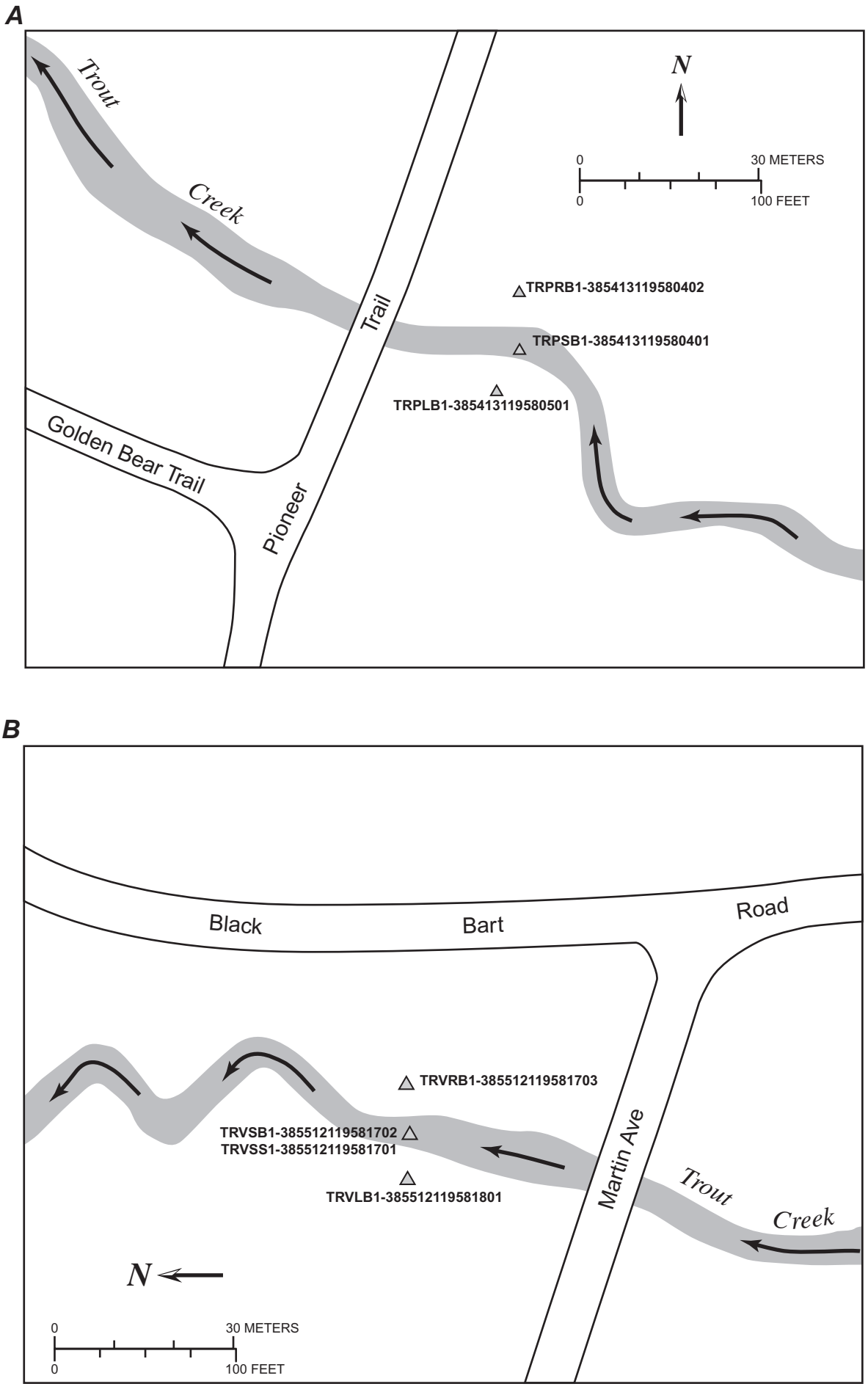


Figure 38. Site map sketch of Trout Creek area ***(A)*** above Pioneer Trail and ***(B)*** at Martin Avenue, California

TROUT CREEK WATERSHED PROJECT

Water-level data were collected in the Trout Creek watershed as part of a cooperative study with the Tahoe Regional Planning Agency. The purpose of the study is to provide data on interactions between surface water and ground water along Trout Creek.

Water Level Status--O, obstruction was encountered in the well (no water level was recorded) due to ice.
Water Level Method--S, steel tape.
Water Level Accuracy--2, water level accurate to the nearest two-hundreths of a foot.
The following sites are shown in figure 38A .

Local Well No	Site Identification	Altitude of Local Datum (Feet Above Mean Sea Level)	Altitude Accuracy of Local Datum (Feet)	Height of Screen Midpoint (Feet Above Local Datum)	Height of Water-Level (Above Local Datum)					
					Date	Time	(Feet)	Status	Method	Accuracy
TROUT CREEK AREA ABOVE PIONEER TRAIL										
090 N12 E18 10ADAC1 TRPSB1	385413119580401	6270.	20	-6.41	10/02/2001	1501	1.26		S	2
					10/17/2001	1232	1.21		S	2
					11/07/2001	1443	1.25		S	2
					11/19/2001	1320	1.26		S	2
					12/11/2001			O		
					01/03/2002	1529	1.50		S	2
					01/09/2002			O		
					01/31/2002			O		
					02/06/2002			O		
					02/20/2002	1632	1.60		S	2
					03/05/2002	1540	1.48		S	2
					03/11/2002	1559	1.47		S	2
					03/27/2002	1443	1.52		S	2
					04/03/2002	1328	1.80		S	2
					04/12/2002	1424	1.94		S	2
					04/30/2002	1502	1.86		S	2
					05/08/2002	1502	1.97		S	2
					05/14/2002	1345	2.00		S	2
					05/24/2002	1336	1.97		S	2
					05/29/2002	1416	2.19		S	2
					05/30/2002	1554	2.14		S	2
					06/05/2002	1347	2.15		S	2
					06/14/2002	1249	1.93		S	2
					07/02/2002	1537	1.55		S	2
					07/19/2002	1315	1.51		S	2
					08/16/2002	1440	1.27		S	2
					08/27/2002	1310	1.30		S	2
					09/11/2002	1444	1.30		S	2
090 N12 E18 10ADAC2 TRPRB1	385413119580402	6270.*	20	-3.67	10/02/2001	1505	1.21		S	2
					10/17/2001	1235	1.21		S	2
					11/07/2001	1446	1.25		S	2
					11/19/2001	1317	1.27		S	2
					12/11/2001	1033	1.62		S	2
					01/03/2002	1522	1.75		S	2
					01/09/2002	1035	1.60		S	2
					01/31/2002	1510	1.68		S	2
					02/06/2002	1212	1.72		S	2
					02/20/2002	1638	1.71		S	2
					03/05/2002	1543	1.57		S	2
					03/11/2002	1553	1.54		S	2
					03/27/2002	1447	1.60		S	2
					04/03/2002	1330	1.85		S	2
					04/12/2002	1427	2.00		S	2
					04/30/2002	1506	1.94		S	2
					05/08/2002		2.01		S	2
					05/14/2002		2.03		S	2
					05/24/2002	1340	2.02		S	2
					05/29/2002	1420	2.10		S	2
					05/30/2002	1602	2.15		S	2
					06/05/2002	1349	2.14		S	2
					06/14/2002	1247	1.92		S	2
					07/02/2002	1543	1.51		S	2
					07/19/2002	1320	1.52		S	2
					08/16/2002	1450	1.21		S	2
					08/27/2002	1306	1.22		S	2
					09/11/2002	1447	1.22		S	2

TROUT CREEK WATERSHED PROJECT--Continued

Local Well No	Site Identification	Altitude of Local Datum (Feet Above Mean Sea Level)	Local Datum Altitude Accuracy (Feet)	Height of Screen Midpoint (Feet Above Local Datum)	Height of Water-Level (Above Local Datum)				
					Date	Time	(Feet)	Status	Method	Accuracy
TROUT CREEK AREA ABOVE PIONEER TRAIL--Continued									
090 N12 E18 10ADBD1 TRPLB1	385413119580501	6270.*	20	-1.65	10/02/2001	1500	1.17	S		2
					10/17/2001	1226	1.15	S		2
					11/07/2001	1440	1.21	S		2
					11/19/2001	1310	1.23	S		2
					12/11/2001	1013	1.59	S		2
					01/03/2002	1516	1.53	S		2
					01/09/2002	1022	1.51	S		2
					01/31/2002	1500	1.56	S		2
					02/06/2002	1205	1.64	S		2
					02/20/2002	1628	1.61	S		2
					03/05/2002	1538	1.50	S		2
					03/11/2002	1545	1.46	S		2
					03/27/2002	1438	1.57	S		2
					04/03/2002	1321	1.86	S		2
					04/12/2002	1420	1.97	S		2
					04/30/2002	1500	1.89	S		2
					05/08/2002	1458	1.94	S		2
					05/14/2002	1342	1.97	S		2
					05/24/2002	1332	1.97	S		2
					05/29/2002	1412	2.05	S		2
					05/30/2002	1556	2.10	S		2
					06/05/2002	1344	2.10	S		2
					06/14/2002	1240	1.84	S		2
					07/02/2002	1535	1.48	S		2
					07/19/2002	1302	1.44	S		2
					08/16/2002	1430	1.19	S		2
					08/27/2002	1301	1.19	S		2
					09/11/2002	1442	1.18	S		2

* Revised

Water-level data were collected in the Trout Creek watershed as part of a cooperative study with the Tahoe Regional Planning Agency. The purpose of the study is to provide data on interactions between surface water and ground water along Trout Creek.

Water Level Status--O, obstruction was encountered in the well (no water level was recorded) due to ice.
Water Level Method--S, steel tape.
Water Level Accuracy--2, water level accurate to the nearest two-hundreths of a foot.
The following sites are shown in figure 38B.

Local Well No	Site Identification	Altitude of Screen Midpoint (Feet Above Mean Sea Level)	Altitude Accuracy (Feet)	Water Level Altitude (Above Mean Sea Level)					
				Date	Time	(Feet)	Status	Method	Accuracy
TROUT CREEK AREA AT MARTIN AVENUE									
090 N12 E18 03DBD 1 TRVSS1 (Stream Stage)	385512119581701		0.1	10/02/2001	1713	6245.76		S	2
				10/17/2001	1037	6245.75		S	2
				11/08/2001	0959	6245.76		S	2
				11/19/2001	1049	6245.77		S	2
				12/17/2001	1639	6246.07		S	2
				12/27/2001	1125	6245.84		S	2
				01/09/2002	1257	6245.97		S	2
				01/31/2002	1215		O		
				02/06/2002	1435	6246.38		S	2
				03/05/2002	1705	6245.95		S	2
				03/13/2002	1438	6245.94		S	2
				04/03/2002	1645	6246.38		S	2
				05/01/2002	1120	6246.35		S	2
				05/08/2002	1636	6246.62		S	2
				05/30/2002		6247.03		S	2
				06/05/2002	1645	6247.08		S	2
				06/27/2002	1042	6246.31		S	2
				06/28/2002	1200	6246.31		S	2
				06/28/2002	1740	6246.33		S	2
				07/02/2002	1434	6246.28		S	2
				07/25/2002	1700	6246.03		S	2
				08/15/2002	1649	6245.91		S	2
				08/22/2002	1248	6245.91		S	2
				09/11/2002	1352	6245.89		S	2
				09/30/2002	1050	6245.87		S	2
090 N12 E18 03DBD 2 TRVSB1	385512119581702	6239.35	0.1	10/02/2001	1711	6245.71		S	2
				10/17/2001	1035	6245.67		S	2
				11/08/2001	0956	6245.70		S	2
				11/19/2001	1045	6245.72		S	2
				12/11/2001	1344	6246.03		S	2
				12/17/2001	1639	6246.00		S	2
				01/09/2002	1255	6246.00		S	2
				02/06/2002	1431	6246.33		S	2
				03/05/2002	1703	6245.98		S	2
				03/13/2002	1435	6246.03		S	2
				04/03/2002	1639	6246.40		S	2
				05/01/2002	1118	6246.38		S	2
				05/08/2002	1633	6246.61		S	2
				05/30/2002		6246.96		S	2
				06/05/2002	1643	6247.01		S	2
				06/27/2002	1044	6246.28		S	2
				06/28/2002	1156	6246.25		S	2
				06/28/2002	1740	6246.22		S	2
				07/02/2002	1432	6246.17		S	2
				07/25/2002	1655	6245.90		S	2
				08/15/2002	1645	6245.76		S	2
				08/22/2002	1251	6245.77		S	2
				09/11/2002	1350	6245.71		S	2
				09/30/2002	1044	6245.70		S	2

TROUT CREEK WATERSHED PROJECT--Continued

Local Well No	Site Identification	Altitude of Screen Midpoint (Feet Above Mean Sea Level)	Altitude Accuracy (Feet)	Water Level Altitude (Above Mean Sea Level)					
				Date	Time	(Feet)	Status	Method	Accuracy
TROUT CREEK AREA AT MARTIN AVENUE--Continued									
090 N12 E18 03DBD 3 TRVRB1	385512119581703	6241.37	0.1	10/02/2001	1715	6245.70		S	2
				10/17/2001	1042	6245.67		S	2
				11/08/2001	1003	6245.72		S	2
				11/19/2001	1052	6245.70		S	2
				12/11/2001	1407	6246.08		S	2
				12/17/2001	1639	6246.02		S	2
				12/27/2001	1115	6245.87		S	2
				01/09/2002	1300	6246.04		S	2
				01/31/2002	1220	6246.37		S	2
				02/06/2002	1440	6246.35		S	2
				03/05/2002	1710	6246.02		S	2
				03/13/2002	1419	6246.07		S	2
				04/03/2002	1649	6246.41		S	2
				05/01/2002	1125	6246.38		S	2
				05/08/2002		6246.61		S	2
				05/30/2002	1008	6246.98		S	2
				06/05/2002	1648	6247.00		S	2
				06/27/2002	1030	6246.28		S	2
				06/28/2002	1146	6246.30		S	2
				06/28/2002	1740	6246.25		S	2
				07/02/2002	1436	6246.19		S	2
				07/25/2002	1647	6245.92		S	2
				08/15/2002	1622	6245.79		S	2
				08/22/2002	1228	6245.77		S	2
				09/11/2002	1354	6245.74		S	2
				09/30/2002	1033	6245.71		S	2
090 N12 E18 03DBDB1 TRVLB1	385512119581801	6242.28	0.1	10/02/2001	1703	6245.62		S	2
				10/17/2001	1030	6245.58		S	2
				11/08/2001	0952	6245.64		S	2
				11/19/2001	1036	6245.63		S	2
				12/11/2001	1420	6246.12		S	2
				12/17/2001	1629	6245.94		S	2
				12/27/2001	1105	6245.77		S	2
				01/09/2002	1250	6245.94		S	2
				01/31/2002	1211	6246.29		S	2
				02/06/2002	1425	6246.25		S	2
				03/05/2002	1701	6245.96		S	2
				03/13/2002	1429	6246.14		S	2
				04/03/2002	1635	6246.34		S	2
				05/01/2002	1113	6246.34		S	2
				05/08/2002	1630	6246.55		S	2
				05/30/2002	1019	6246.91		S	2
				06/05/2002	1639	6246.94		S	2
				06/27/2002	1035	6246.21		S	2
				06/28/2002	1150	6246.18		S	2
				06/28/2002	1740	6246.14		S	2
				07/02/2002	1429	6246.08		S	2
				07/25/2002	1652	6245.81		S	2
				08/15/2002	1635	6245.66		S	2
				08/22/2002	1235	6245.65		S	2
				09/11/2002	1347	6245.61		S	2
				09/30/2002	1038	6245.60		S	2

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency in the Lake Tahoe Basin for quality assurance purposes. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality-assurance samples are defined in the introductory text section titled “Water Quality-Control Data.”

QA/QC CALIFORNIA

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	Time	BLANK, TYPE OF SAMPLE (CODE) (99102)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)
103366769999	12-31-01	1115	SOURCE SOLUTION	1	.004	<.04	<.002	.002	<.001	4
	12-31-01	1120	FIELD	2	.004	.04	.002	.002	.001	4
	03-05-02	1135	SOURCE SOLUTION	1	<.003	<.04	.002	<.002	<.001	4
	03-05-02	1140	FIELD	2	<.003	.04	<.002	<.002	<.001	4
	06-06-02	1545	SOURCE SOLUTION	2	<.003	<.04	<.002	.002	<.001	<3
	06-06-02	1550	FIELD	2	.003	<.04	.002	.002	<.001	3
	09-19-02	1515	SOURCE SOLUTION	2	<.003	<.04	<.002	<.002	.001	38
	09-19-02	1520	FIELD	2	.003	<.04	.002	<.002	.001	38

QA/QC NEVADA

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	Time	BLANK, TYPE OF SAMPLE (CODE) (99102)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)
103367009999	10-09-01	1025	SOURCE SOLUTION	1	<.003	.05	.002	.002	<.001	4
	10-09-01	1030	FIELD	2	<.003	<.04	.002	<.002	<.001	4
103367309999	11-13-01	1040	SOURCE SOLUTION	2	<.003	<.04	.002	<.002	<.001	4
	11-13-01	1100	FIELD	2	<.003	<.04	.002	<.002	<.001	4
103367009999	01-10-02	1315	SOURCE SOLUTION	2	.003	<.04	.002	.002	<.001	<3
	01-10-02	1320	FIELD	2	.003	<.04	.002	.002	<.001	<3
103367309999	02-07-02	1350	SOURCE SOLUTION	--	<.003	.06	<.002	<.002	<.001	<3
	02-07-02	1405	FIELD	--	<.003	.07	.002	.002	<.001	<3
	04-16-02	1025	SOURCE SOLUTION	2	.003	<.04	.002	<.002	<.001	<3
	04-16-02	1105	FIELD	2	<.003	<.04	.002	.002	<.001	4
	06-04-02	1645	SOURCE SOLUTION	2	.004	<.04	.002	<.002	.001	<3
	06-04-02	1700	FIELD	2	.003	<.04	<.002	.002	<.001	3
103367009999	07-08-02	1210	SOURCE SOLUTION	2	<.003	<.04	.002	.002	<.001	3
	07-08-02	1215	FIELD	2	<.003	<.04	.002	.002	<.001	4
103367309999	08-06-02	1520	SOURCE SOLUTION	--	.004	<.04	.002	.002	<.001	6
	08-06-02	1525	FIELD	--	.003	<.04	.002	.002	<.001	4

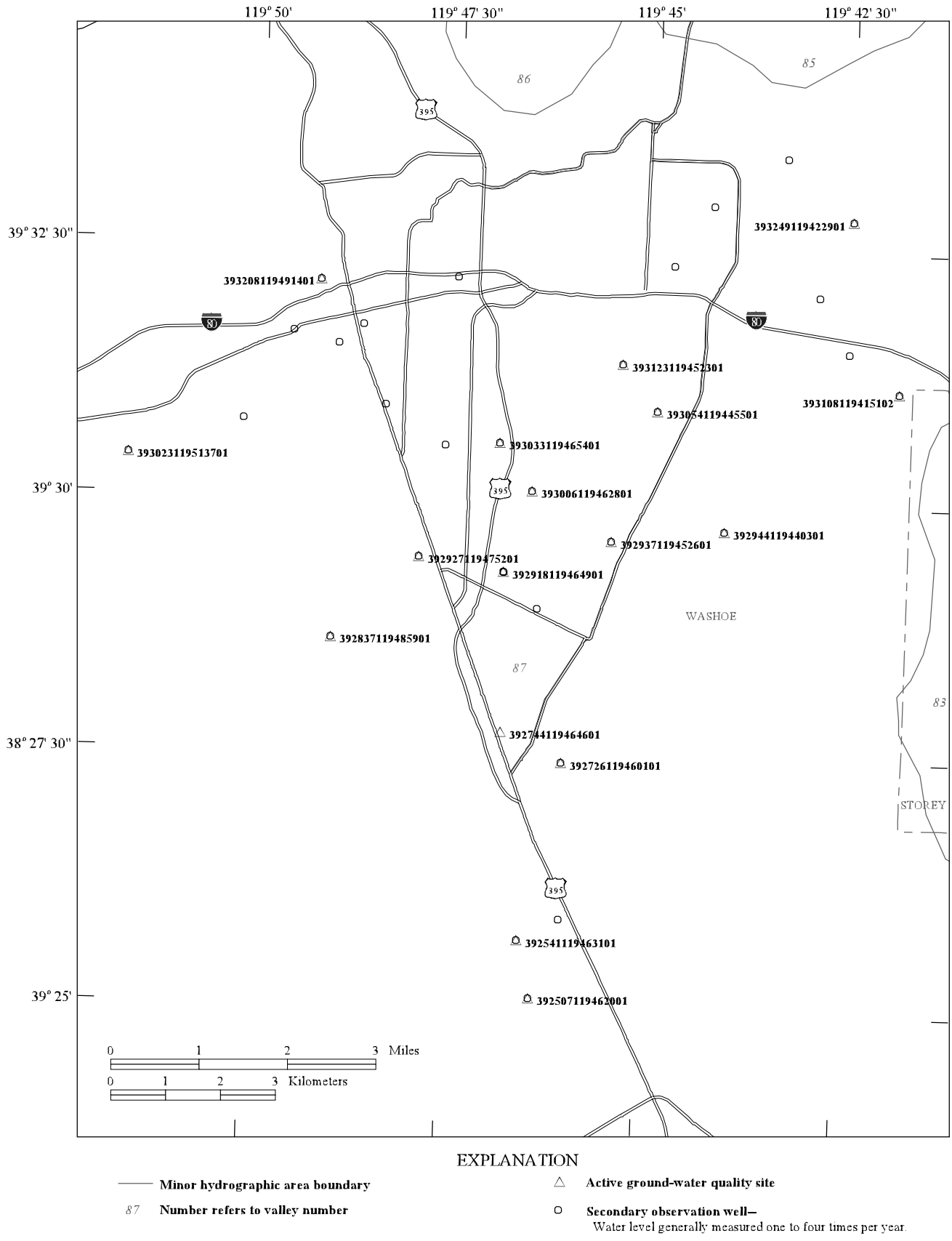


Figure 39. Ground-water sites, Truckee Meadows.

Water-quality measurements in the following table were made as part of the National Water-Quality Assessment Program (NAWQA) Reno-Carson City Urban Land-Use study to monitor conditions in shallow ground water. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figures 32, 35, 39.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
390708119450301	104 N15 E20 32DADA1 EDMONDS SPORTS COMPLEX	05-20-02	0930	**FIELD BLANK**	--	*140.*	*4734.*
	104 N15 E20 32DADA1	05-20-02	1230	ENVIRONMENTAL	50.04	140.	4734.
	104 N15 E20 32DADA1	09-16-02	1430	ENVIRONMENTAL	--	140.	4734.
390758119453701	104 N15 E20 29CADD1 MAYORS PARK WELL	05-08-02	1000	ENVIRONMENTAL	39.00	47.	4721.
	104 N15 E20 29CADD1	09-16-02	1320	ENVIRONMENTAL	--	47.	4721.
390810119450101	104 N15 E20 28BCCC1 USGS BERGER	05-06-02	1300	ENVIRONMENTAL	39.00	54.	4692.
	104 N15 E20 28BCCC1	09-16-02	1100	ENVIRONMENTAL	--	54.	4692.
390834119450701	104 N15 E20 29AAAB1 USGS SEELIGER	06-11-02	0900	**FIELD BLANK**	--	*28.*	*4678.*
	104 N15 E20 29AAAB1	06-11-02	1030	ENVIRONMENTAL	23.46	28.	4678.
390839119462701	104 N15 E20 19DDCB1 USGS BETTS	05-29-02	1010	ENVIRONMENTAL	89.94	149.	4758.
390943119474801	104 N15 E19 13CADA1 USGS KINGS	04-30-02	1230	ENVIRONMENTAL	61.95	108.	4889.
		06-26-02	0845	ENVIRONMENTAL	--	108.	4889.
391007119471102	104 N15 E20 18BBCC2 CC MONITOR	06-04-02	1040	ENVIRONMENTAL	38.08	50.	4795.
391016119433901	104 N15 E20 15BABB1 USGS EMPIRE	06-13-02	1015	ENVIRONMENTAL	21.85	39.	4640.
		06-13-02	1020	**SPIKE**	--	*39.*	*4640.*
	104 N15 E20 15BABB1	06-13-02	1025	**SPIKE**	--	*39.*	*4640.*
391030119480701	104 N15 E19 12CCAA1 USGS Ash-1 Shallow	05-28-02	1015	**FIELD BLANK**	--	*185.*	*5063.*
		05-28-02	1145	ENVIRONMENTAL	138.91	185.	5063.
391055119451801	104 N15 E20 08ADBB1 JUSTINE	05-07-02	1005	**FIELD BLANK**	--	*15.*	*4680.*
		05-07-02	1030	ENVIRONMENTAL	2.58	15.	4680.
391110119460601	104 N15 E20 08BBBB2 USGS CC OFFICE DEEP	04-22-02	1330	**FIELD BLANK**	--	*98.*	*4724.*
		04-23-02	1035	ENVIRONMENTAL	23.05	98.	4724.
391110119460602	104 N15 E20 08BBBB3 USGS CC OFFICE SHALLOW	04-24-02	0945	ENVIRONMENTAL	4.50	20.	4724.
391111119481901	104 N15 E19 01CCCC1 USGS VC-8	05-22-02	1015	ENVIRONMENTAL	96.20	117.	5208.
		09-17-02	1415	ENVIRONMENTAL	--	117.	5208.
391126119423201	104 N15 E20 02CACC3 CENTENNIAL PARK	05-01-02	1030	ENVIRONMENTAL	4.05	15.	4637.
		09-17-02	0855	ENVIRONMENTAL	--	15.	4637.
391127119442501	104 N15 E20 04DBCD1 FIRE STATION 2	06-20-02	0950	ENVIRONMENTAL	12.80	32.	4688.
		09-17-02	0945	ENVIRONMENTAL	--	32.	4688.
391231119442903	104 N16 E20 33ACCC3 USGS GONI NUMBER 1	05-21-02	1040	ENVIRONMENTAL	106.45	130.	4804.
		05-21-02	1041	**SPIKE**	--	*130.*	*4804.*
		05-21-02	1042	**REPLICATE**	--	*130.*	*4804.*
		09-17-02	1326	ENVIRONMENTAL	--	130.	4804.
392507119462001	087 N18 E20 19AABA1 STIMGID NUMBER 1	06-05-02	1200	ENVIRONMENTAL	133.45	139.	4670.
		09-18-02	0915	ENVIRONMENTAL	--	139.	4670.
392541119463101	087 N18 E20 18ACAD1 USGS LENZ	06-17-02	0925	**FIELD BLANK**	--	*102.*	*4642.*
		06-17-02	1040	ENVIRONMENTAL	95.42	102.	4642.
392726119460101	087 N18 E20 05BCAC1 USGS - Huffaker Park 1	05-02-02	1100	ENVIRONMENTAL	10.22	35.	4460.
392744119464601	087 N18 E20 06BAAA3 USGS - South Virginia 1	06-07-02	0945	ENVIRONMENTAL	16.87	28.	4460.
392837119485901	087 N19 E19 26CDDD1 LAKERIDGE GOLF COURSE	06-03-02	1105	ENVIRONMENTAL	96.34	159.	4635.
392918119464901	087 N19 E20 30BADD1 USGS NEIL ROAD	05-13-02	1030	**FIELD BLANK**	--	*21.*	*4409.*
		05-13-02	1300	ENVIRONMENTAL	4.30	21.	4409.
		06-27-02	0930	ENVIRONMENTAL	--	21.	4409.
392927119475201	087 N19 E19 25BAAA1 USGS - Moana Pool 1	05-15-02	1030	ENVIRONMENTAL	34.52	57.	4460.
		05-15-02	1130	**SPIKE**	--	*57.*	*4460.*
		09-18-02	1020	ENVIRONMENTAL	--	57.	4460.
392937119452601	087 N19 E20 20DCAD1 USGS - Washoe Co Yard 1	06-12-02	1100	ENVIRONMENTAL	6.05	14.	4395.
392944119440301	087 N19 E20 21DADB1 USGS ROSEWOOD	06-06-02	0950	ENVIRONMENTAL	6.54	20.	4390.
393006119462801	087 N19 E20 19ADBB1 AIR NATNL GUARD MW-17-R2	05-14-02	1030	ENVIRONMENTAL	6.34	15.	4406.
393023119513701	087 N19 E19 16CCCA1 USGS GOMM	06-18-02	1040	ENVIRONMENTAL	35.43	49.	4618.
393033119465401	087 N19 E20 18CDBA1 USGS - Wooster High Sch 1	06-19-02	1020	ENVIRONMENTAL	20.78	38.	4422.
		06-19-02	1120	**REPLICATE**	--	*38.*	*4422.*
393050119552401	091 N19 E18 14ACBC1 Washoe Co - W-10	06-04-02	1200	ENVIRONMENTAL	13.68	24.	4705.
393054119445501	087 N19 E20 16BCAC1 USGS - Ag Extension 1	05-16-02	1050	ENVIRONMENTAL	8.50	15.	4400.
393108119415102	083 N19 E20 14AAAC2 USGS - TRACY WELL (SHALLOW)	06-03-02	1100	**FIELD BLANK**	--	*161.*	*4388.*
		06-03-02	1330	ENVIRONMENTAL	14.10	161.	4388.
393123119452301	087 N19 E20 08DDBB1 USGS - Greg Street 1	06-05-02	1030	ENVIRONMENTAL	8.87	15.	4409.
393208119491401	087 N19 E19 02CDCB1 CTM-MW40S	05-30-02	1055	ENVIRONMENTAL	112.10	149.	4588.
393249119422901	087 N19 E20 02BACB1 USGS - Woodtrails Park 1	05-09-02	1040	ENVIRONMENTAL	7.64	20.	4400.
		05-09-02	1120	**REPLICATE**	--	*20.*	*4400.*
		09-18-02	1105	ENVIRONMENTAL	--	20.	4400.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	FLOW RATE (G/M) (00059)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	.50	54	635	5.5	66	7.3	398	--	15.0	22.5	7.34
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	--	8.4	--	--	--	7.0	491	7.5	12.5	46.9	13.2
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	--	--	--	--	--	7.0	606	--	15.5	67.8	22.0
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	.50	5.9	644	4.1	53	6.7	1100	--	19.7	141	38.3
390839119462701	05-29-02	.50	.3	643	1.6	20	7.6	253	--	17.2	22.9	6.82
390943119474801	04-30-02	.50	--	634	3.7	40	6.5	222	6.0	11.0	22.6	7.14
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	--	--	--	--	--	6.4	264	--	13.5	32.6	5.04
391016119433901	06-13-02	.50	11	656	.5	6	7.3	1090	--	17.5	96.4	22.5
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	.50	.3	635	4.1	49	7.2	264	25.0	15.3	32.6	4.98
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	--	--	--	--	--	7.5	763	--	13.5	12.4	2.73
391110119460601	04-22-02	--	--	--	--	--	--	--	--	--	*.03*	*<.008*
	04-23-02	.75	.4	643	5.4	68	7.6	184	18.0	18.3	20.6	5.43
391110119460602	04-24-02	.80	1.7	646	2.7	32	7.0	1040	18.0	15.0	86.0	26.0
391111119481901	05-22-02	.50	.3	632	6.5	75	6.5	288	--	13.3	29.8	8.90
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	.16	.8	641	1.1	12	6.9	3270	9.5	12.7	217	44.5
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	.50	.3	640	5.8	74	7.4	728	--	18.1	55.5	16.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	.50	130	639	5.3	67	7.8	357	--	17.7	32.4	8.71
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	.50	35	647	5.9	75	7.0	232	--	18.6	17.2	9.50
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	*.03*	*<.008*
	06-17-02	.50	7.5	655	5.9	75	7.1	675	--	19.1	50.7	35.4
392726119460101	05-02-02	1.0	.2	648	.4	5	6.7	496	19.0	16.0	46.9	22.1
392744119464601	06-07-02	--	--	--	--	--	7.0	593	19.5	14.5	49.1	32.7
392837119485901	06-03-02	.50	.3	--	4.3	--	8.2	278	--	21.5	7.49	.520
392918119464901	05-13-02	--	--	--	--	--	--	--	--	--	*<.01*	*<.008*
	05-13-02	--	.7	651	5.5	68	6.9	974	21.0	17.9	89.7	18.8
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	--	--	--	--	--	7.9	652	22.0	28.0	12.2	1.14
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	.50	.3	651	.3	4	7.4	786	23.0	18.5	84.6	31.8
392944119440301	06-06-02	.20	5.7	651	1.3	16	7.6	452	--	18.5	10.3	6.35
393006119462801	05-14-02	.50	.3	650	.1	1	6.8	1350	16.0	16.4	138	28.5
393023119513701	06-18-02	.50	.3	643	2.7	33	6.6	637	28.0	17.1	51.0	29.8
393033119465401	06-19-02	.50	.3	649	.6	7	6.8	884	27.5	17.8	56.1	15.4
	06-19-02	--	--	--	--	--	--	--	--	--	*56.4*	*15.4*
393050119552401	06-04-02	.20	--	--	--	--	6.7	1340	27.0	15.0	194	50.4
393054119445501	05-16-02	.50	12	650	.2	2	6.3	240	--	15.7	21.9	9.24
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	.50	120	650	3.6	47	8.2	714	--	20.4	5.61	1.88
393123119452301	06-05-02	--	--	--	--	--	6.4	286	24.0	16.0	28.2	10.4
393208119491401	05-30-02	.50	.5	645	3.9	49	7.6	928	--	17.6	91.0	27.7
393249119422901	05-09-02	.20	13	649	.2	2	7.5	1230	15.0	15.4	28.2	13.6
	05-09-02	--	--	--	--	--	--	--	--	--	*27.8*	*13.3*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	1.44	30.2	114	139	.04	4.17	.2	50.2	78.5	306	270
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	1.32	32.7	87	106	E.02	19.7	.2	55.0	104	370	358
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	2.89	33.0	186	227	.12	18.2	.2	30.1	112	412	401
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	1.13	69.7	388	473	.06	26.9	.2	49.2	232	880	816
390839119462701	05-29-02	6.54	14.5	84	102	.04	4.42	.2	24.4	27.9	169	164
390943119474801	04-30-02	2.95	10.0	95	115	<.03	9.60	<.1	30.9	3.1	155	147
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	5.24	12.2	100	122	E.03	2.95	E.1	29.2	23.3	185	175
391016119433901	06-13-02	1.25	127	237	289	.08	48.0	1.8	49.2	270	792	763
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	2.37	15.4	124	151	E.02	1.83	E.1	23.0	5.8	160	162
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	1.18	157	288	351	.16	25.4	.4	54.8	61.8	503	489
391110119460601	04-22-02	*<.10*	*<.09*	--	--	*<.03*	*<.30*	*<.1*	*<.13*	*<.1*	*<10*	--
	04-23-02	1.13	10.3	89	109	E.02	1.45	E.1	33.5	1.3	127	129
391110119460602	04-24-02	1.27	129	474	578	.13	62.7	.2	52.7	42.9	718	694
391111119481901	05-22-02	2.72	16.8	90	109	E.02	21.0	<.1	43.5	6.6	211	208
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	60.0	647	355	433	.33	142	2.5	38.7	1550	3070	2950
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	3.13	86.3	217	264	.48	36.2	.5	53.7	64.4	520	500
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	3.44	33.2	125	152	.12	13.8	.3	36.3	33.6	268	252
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	5.38	11.0	96	117	E.02	5.00	.1	51.6	6.2	179	168
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.10*	*<.09*	--	--	*<.03*	*1.70*	*<.1*	*<.13*	*.1*	*<10*	--
	06-17-02	9.44	20.6	175	214	.05	73.4	.1	56.4	19.7	432	416
392726119460101	05-02-02	8.41	20.9	203	248	.11	17.7	.7	64.7	23.8	355	350
392744119464601	06-07-02	7.31	28.7	230	280	.12	26.6	.1	59.1	31.6	418	385
392837119485901	06-03-02	2.47	54.7	95	116	.03	10.1	.4	47.4	25.1	218	208
392918119464901	05-13-02	*<.10*	*<.09*	--	--	*<.03*	*<.30*	*<.1*	*<.13*	*<.1*	*<10*	--
	05-13-02	10.7	91.6	323	394	.28	37.0	.4	75.7	146	705	681
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	5.74	129	144	176	.08	14.6	2.0	89.7	135	490	480
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	9.11	39.2	325	397	.23	37.9	.6	66.6	56.6	542	528
392944119440301	06-06-02	7.15	76.0	142	173	.07	31.4	.2	62.2	38.5	340	320
393006119462801	05-14-02	13.8	138	496	606	.32	54.2	.4	57.1	220	1040	988
393023119513701	06-18-02	5.51	30.4	124	151	<.03	11.2	.1	54.9	180	475	446
393033119465401	06-19-02	6.89	115	248	303	.25	35.7	.5	55.0	146	631	608
	06-19-02	*7.27*	*116*	--	--	*.24*	*35.6*	*.5*	*55.3*	*148*	*641*	--
393050119552401	06-04-02	5.23	64.3	210	256	.16	219	.1	48.0	279	1110	1010
393054119445501	05-16-02	2.59	11.2	97	119	.04	8.88	E.1	34.1	11.9	157	161
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	1.94	140	147	180	.15	50.8	2.2	25.8	99.5	446	421
393123119452301	06-05-02	3.09	11.4	101	124	.05	11.7	E.1	36.9	17.7	219	200
393208119491401	05-30-02	4.61	58.7	186	227	.73	81.5	E.1	38.2	154	628	597
393249119422901	05-09-02	3.85	230	501	612	.11	29.4	.1	55.5	123	837	803
	05-09-02	*3.96*	*229*	--	--	*.11*	*29.5*	*.1*	*55.4*	*122*	*837*	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
390708119450301	05-20-02	--	--	--	--	--	*E.2*	*<1*	*<.05*	*<.2*	*<1*	*<.06*
	05-20-02	<.04	<.10	1.36	.025	.09	2.1	1	.65	1.3	167	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.04	.19	6.90	<.008	.30	2.2	1	.07	1.1	137	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.04	.51	E.04	<.008	.06	6.1	1	.56	1.5	219	<.06
	09-16-02	--	--	--	--	--	10.1	--	--	--	--	--
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	<.04	.14	4.85	<.008	.27	3.5	<1	E.04	.7	133	<.06
390839119462701	05-29-02	<.04	<.10	1.26	<.008	.07	E.3	<1	.10	16.9	37	<.06
390943119474801	04-30-02	<.04	<.10	.82	E.004	.03	8.5	<1	.16	1.6	27	<.06
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.04	.41	.28	E.006	1.00	8.2	10	.77	3.4	49	<.06
391016119433901	06-13-02	<.04	.16	.43	.055	.06	3.7	1	.73	93.8	107	<.06
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	<.04	<.10	.34	<.008	E.01	.4	<1	.13	3.4	7	<.06
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	<.04	.15	<.05	<.008	.10	5.0	2	.32	15.8	41	<.06
391110119460601	04-22-02	*<.04*	*<.10*	*<.05*	*<.008*	*<.02*	*41.4*	*<1*	*<.05*	*<.2*	*<1*	*<.06*
	04-23-02	<.04	<.10	.40	<.008	.05	4.5	<1	.10	E.2	12	<.06
391110119460602	04-24-02	<.04	.16	.08	<.008	2.36	4.6	2	.26	12.3	110	<.06
391111119481901	05-22-02	<.04	<.10	5.47	<.008	.03	.5	<1	.12	<.2	33	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.04	.40	6.36	.011	.06	4.9	6	1.20	21.1	51	1.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.04	E.08	11.8	<.008	.08	1.1	<1	.24	4.2	155	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.04	<.10	3.23	<.008	.12	.7	1	.53	24.1	49	<.06
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	*.6*	*1*	*.54*	*23.8*	*50*	*<.06*
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.04	<.10	.78	<.008	.05	.9	1	.13	1.5	117	<.06
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.04*	*<.10*	*<.05*	*<.008*	*<.02*	*4.1*	*<1*	*<.05*	*<.2*	*<1*	*<.06*
	06-17-02	<.04	E.07	9.89	<.008	.13	1.0	<1	.08	4.1	289	<.06
392726119460101	05-02-02	<.04	.12	4.73	<.008	.27	2.4	<1	.12	2.8	279	<.06
392744119464601	06-07-02	<.04	.14	2.37	<.008	.10	1.9	<1	.11	4.6	234	<.06
392837119485901	06-03-02	<.04	<.10	.60	<.008	E.01	E.3	3	1.47	27.2	7	<.06
392918119464901	05-13-02	*<.04*	*<.10*	*<.05*	*<.008*	*<.02*	*1.3*	*<1*	*<.05*	*<.2*	*<1*	*<.06*
	05-13-02	<.04	.10	3.46	<.008	.03	2.0	<1	.78	14.6	113	<.06
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.04	<.10	.81	<.008	<.02	1.0	3	3.69	99.5	12	<.06
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.04	.11	1.09	.009	.08	1.5	<1	.42	34.8	38	<.06
392944119440301	06-06-02	E.02	<.10	<.05	<.008	.10	.6	<1	.05	43.8	43	<.06
393006119462801	05-14-02	<.04	.43	8.00	.114	.06	5.2	<1	.43	41.4	198	<.06
393023119513701	06-18-02	.71	.77	1.16	.057	.33	.9	<1	.08	12.8	30	<.06
393033119465401	06-19-02	<.04	.11	5.99	<.008	.11	1.4	<1	.36	34.3	68	<.06
	06-19-02	*<.04*	*E.09*	*6.02*	*<.008*	*.11*	*1.4*	*<1*	*.35*	*33.9*	*68*	*<.06*
393050119552401	06-04-02	<.04	.17	5.66	<.008	.12	2.6	<1	.43	9.4	31	<.06
393054119445501	05-16-02	<.04	E.07	.11	<.008	.02	1.7	1	E.04	1.3	51	<.06
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	<.04	<.10	.71	<.008	.10	16.5	5	.22	52.4	17	<.06
393123119452301	06-05-02	<.04	E.09	4.34	<.008	.03	<.3	3	.18	.8	63	<.06
393208119491401	05-30-02	<.04	E.06	6.31	<.008	.04	1.3	<1	.12	3.1	62	<.06
393249119422901	05-09-02	<.04	.36	3.79	<.008	.14	4.3	<1	.24	22.4	45	<.06
	05-09-02	*<.04*	*.29*	*3.74*	*<.008*	*.14*	*4.1*	*<1*	*.24*	*21.8*	*40*	*<.06*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
390708119450301	05-20-02	*<7*	*<.04*	*<.8*	*<.02*	*E.1*	--	*<.08*	*<.3*	*.1*	*<.2*	*.09*
	05-20-02	52	.14	<.8	.16	.7	<10	<.08	5.0	103	2.8	1.61
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	41	E.03	<.8	.11	1.2	<10	<.08	1.3	3.2	.3	.65
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	24	.06	<.8	1.67	1.5	<10	<.08	20.3	1700	3.7	3.91
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	179	E.03	<.8	.36	2.5	<10	.08	13.5	2.4	2.0	3.84
390839119462701	05-29-02	34	E.03	<.8	.04	.3	<10	<.08	13.5	.1	10.2	<.06
390943119474801	04-30-02	25	E.02	1.3	.24	.4	E8	<.08	2.9	1.0	.8	1.06
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	9	.05	<.8	.24	3.7	10	<.08	4.1	40.4	1.0	1.60
391016119433901	06-13-02	479	.14	<.8	.64	3.2	<10	<.08	36.1	1230	45.7	3.85
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	10	<.04	<.8	.05	E.2	<10	<.08	5.0	.2	1.5	<.06
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	49	.07	<.8	.40	.6	<10	<.08	11.1	56.2	21.7	2.06
391110119460601	04-22-02	*<7*	*E.02*	*<.8*	*E.01*	*.4*	*<10*	*.09*	*<.3*	*1.7*	*<.2*	*1.00*
	04-23-02	8	<.04	1.2	.04	.3	<10	E.05	20.9	.2	.6	.80
391110119460602	04-24-02	89	.04	<.8	.24	2.7	<10	E.05	44.2	9.7	4.3	3.27
391111119481901	05-22-02	34	<.04	<.8	.14	1.0	<10	.08	22.8	.1	.2	.74
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	868	2.02	<.8	1.23	8.3	<30	<.20	16.7	376	110	2.91
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	231	.05	2.2	.11	.6	<10	<.08	2.7	.4	15.7	.69
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	30	.04	<.8	.06	.4	<10	<.08	13.6	19.7	15.1	<.06
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	*30*	*E.03*	*<.8*	*.06*	*.4*	--	*<.08*	*13.8*	*23.1*	*14.4*	*<.06*
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	30	E.02	E.5	.39	.5	<10	<.08	1.5	107	1.8	2.42
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<7*	*E.02*	*<.8*	*<.02*	*.4*	*<10*	*.13*	*<.3*	*1.3*	*<.2*	*.59*
	06-17-02	109	<.04	<.8	.14	1.0	<10	E.07	2.3	27.6	.8	.56
392726119460101	05-02-02	40	<.04	<.8	.16	.9	<10	<.08	2.5	3.4	.8	.56
392744119464601	06-07-02	82	.34	<.8	1.60	2.1	<10	<.08	14.5	13.9	2.4	1.84
392837119485901	06-03-02	62	<.04	<.8	.02	.3	<10	<.08	36.1	.9	1.8	.23
392918119464901	05-13-02	*<7*	*<.04*	*<.8*	*<.02*	*<.2*	*<10*	*<.08*	*<.3*	*<.1*	*<.2*	*<.06*
	05-13-02	381	.04	<.8	.22	1.6	<10	<.08	105	5.4	7.3	2.28
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	637	.04	<.8	.03	.8	<10	<.08	80.2	.2	19.6	.19
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	108	.09	<.8	.36	1.1	<10	<.08	58.5	342	25.4	2.70
392944119440301	06-06-02	1450	<.04	<.8	.02	E.2	13	<.08	77.7	243	6.7	.21
393006119462801	05-14-02	1120	.18	<.8	6.42	3.3	35	<.08	200	1280	54.3	5.21
393023119513701	06-18-02	65	E.03	<.8	.17	1.4	<10	E.05	2.8	1250	1.2	.15
393033119465401	06-19-02	1060	.04	<.8	.16	1.8	<10	<.08	113	.5	11.2	1.22
	06-19-02	*945*	*E.03*	*<.8*	*.16*	*1.7*	*<10*	*<.08*	*113*	*.7*	*11.2*	*1.15*
393050119552401	06-04-02	51	.34	<.8	.49	3.7	<10	<.08	141	6.6	10.3	5.48
393054119445501	05-16-02	39	<.04	<.8	1.15	.4	714	<.08	2.2	594	2.1	2.06
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	887	E.03	E.5	.21	.7	<10	<.08	14.8	2.9	9.5	1.03
393123119452301	06-05-02	52	.11	<.8	.10	1.1	<10	<.08	3.2	2.5	.6	.97
393208119491401	05-30-02	30	<.04	E.6	.26	1.1	<10	<.08	1.2	1.0	1.7	<.06
393249119422901	05-09-02	514	.05	E.6	.15	2.3	<10	<.08	.8	17.9	22.7	1.19
	05-09-02	*509*	*.06*	*E.7*	*.13*	*2.4*	*<10*	*<.08*	*.8*	*7.8*	*22.9*	*1.48*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)
390708119450301	05-20-02	*<.3*	*<1*	*.10*	*<.04*	*<.2*	*<1*	--	--	--	--	--
	05-20-02	1.5	<1	273	E.03	4.8	1	<.006	<.006	<.004	<.005	<.007
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.3	<1	775	<.04	5.6	2	<.006	<.006	<.004	<.005	<.007
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	E.2	<1	841	<.04	3.1	6	<.006	<.006	<.004	<.005	.019
	09-16-02	--	--	--	--	--	--	<.006	<.006	<.004	<.005	.030
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	.5	<1	1780	<.04	13.0	3	<.006	<.006	<.004	<.005	<.007
390839119462701	05-29-02	.5	<1	176	E.02	12.9	<1	<.006	<.006	<.004	<.005	<.007
390943119474801	04-30-02	<.3	<1	204	<.04	2.0	<1	<.006	<.006	<.004	<.005	<.007
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	.5	<1	220	<.04	3.4	3	<.006	<.006	<.004	<.005	<.007
391016119433901	06-13-02	.9	<1	1120	<.04	65.3	1	<.006	<.006	<.004	<.005	<.007
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	--	--	--	--	--	--	*.128*	*.123*	*.123*	*.109*	*.126*
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	E.2	<1	220	E.03	2.2	<1	<.006	<.006	<.004	<.005	<.007
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	E.3	<1	108	<.04	7.7	<1	<.006	<.006	<.004	<.005	<.007
391110119460601	04-22-02	*<.3*	*<1*	*<.08*	*<.04*	*<.2*	*3*	*<.006*	*<.006*	*<.010*	*<.005*	*<.007*
	04-23-02	<.3	<1	212	<.04	11.8	<1	<.006	<.006	<.004	<.005	<.007
391110119460602	04-24-02	E.2	<1	1030	<.04	39.1	2	<.006	<.006	<.004	<.005	.011
391111119481901	05-22-02	<.3	<1	340	2.13	7.9	<1	<.006	<.006	<.004	<.005	<.007
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	4.7	<2	1770	E.04	24.7	9	<.006	<.006	<.004	<.005	<.007
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	1.6	<1	547	<.04	16.7	<1	<.006	<.006	<.004	<.005	<.007
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	1.0	<1	323	<.04	18.3	<1	<.006	<.006	<.004	<.005	<.007
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	*1.0*	*<1*	*320*	*<.04*	*18.2*	*<1*	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.3	<1	171	<.04	5.9	1	<.006	<.006	<.004	<.005	<.007
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.3*	*<1*	*.13*	*<.04*	*<.2*	*1*	*<.006*	*<.006*	*<.004*	*<.005*	*<.007*
	06-17-02	<.3	<1	502	<.04	11.5	1	<.006	<.006	<.004	<.005	<.007
392726119460101	05-02-02	E.2	<1	477	<.04	21.9	1	<.006	<.006	<.004	<.005	<.007
392744119464601	06-07-02	<.3	<1	555	<.04	19.7	13	<.006	<.006	<.004	<.005	<.007
392837119485901	06-03-02	<.3	<1	123	<.04	3.4	<1	<.006	<.006	<.004	<.005	<.007
392918119464901	05-13-02	*<.3*	*<1*	*<.08*	*<.04*	*<.2*	*<1*	--	--	--	--	--
	05-13-02	.7	<1	1100	<.04	6.9	1	<.006	<.006	<.004	<.005	E.006
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	.8	<1	153	<.04	8.0	2	<.006	<.006	<.004	<.005	<.007
	05-15-02	--	--	--	--	--	--	*.106*	*.115*	*.112*	*.098*	*.119*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	3.0	<1	748	<.04	35.5	<1	<.006	<.006	<.004	<.005	<.007
392944119440301	06-06-02	<.3	<1	150	<.04	1.6	<1	<.006	<.006	<.004	<.005	<.007
393006119462801	05-14-02	.7	<1	1460	<.04	12.3	2	<.006	<.006	<.004	<.005	.034
393023119513701	06-18-02	.4	<1	498	<.04	4.1	<1	<.006	<.006	<.004	<.005	<.007
393033119465401	06-19-02	1.8	<1	587	<.04	7.4	<1	<.006	<.006	<.004	<.005	E.006
	06-19-02	*1.8*	*<1*	*579*	*<.04*	*7.5*	*<1*	*<.006*	*<.006*	*<.004*	*<.005*	*E.006*
393050119552401	06-04-02	E.3	<1	581	E.04	4.3	8	<.006	<.006	<.004	<.005	.012
393054119445501	05-16-02	<.3	<1	224	<.04	1.5	<1	<.006	<.006	<.004	<.005	<.007
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	.4	<1	86.1	<.04	21.3	<1	<.006	<.006	<.004	<.005	<.007
393123119452301	06-05-02	1.6	<1	284	<.04	4.3	7	<.006	<.006	<.004	<.005	<.007
393208119491401	05-30-02	5.3	<1	660	<.04	6.0	<1	<.006	<.006	<.004	<.005	<.007
393249119422901	05-09-02	3.2	<1	303	<.04	60.6	<1	<.006	<.006	<.004	<.005	<.007
	05-09-02	*3.1*	*<1*	*302*	*<.04*	*62.7*	*3*	*<.006*	*<.006*	*<.004*	*<.005*	*<.007*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	87.2	<.005	<.005
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	109	<.005	<.005
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.024	119	<.005	<.005
	09-16-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.031	109	<.005	<.005
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	99.1	<.005	<.005
390839119462701	05-29-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	124	<.005	<.005
390943119474801	04-30-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	151	<.005	<.005
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	127	<.005	<.005
391016119433901	06-13-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	121	<.005	<.005
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	*.102*	*.118*	*E.169*	*E.152*	*.121*	*.146*	*.121*	*E.061*	*122*	*.116*	*.102*
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	131	<.005	<.005
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	105	<.005	<.005
391110119460601	04-22-02	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*93.2*	*<.005*	*<.005*
	04-23-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	110	<.005	<.005
391110119460602	04-24-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.006	106	<.005	<.005
391111119481901	05-22-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	101	<.005	<.005
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	102	<.005	<.005
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.003	109	<.005	<.005
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	87.7	<.005	<.005
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	93.8	<.005	<.005
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*123*	*<.005*	*<.005*
	06-17-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.005	122	<.005	<.005
392726119460101	05-02-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	109	<.005	<.005
392744119464601	06-07-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	121	<.005	<.005
392837119485901	06-03-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	123	<.005	<.005
392918119464901	05-13-02	--	--	--	--	--	--	--	--	--	--	--
	05-13-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.011	96.5	<.005	<.005
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	121	<.005	<.005
	05-15-02	*.104*	*.102*	*E.129*	*E.143*	*.109*	*.156*	*.109*	*E.068*	*120*	*.108*	*.106*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	98.1	<.005	<.005
392944119440301	06-06-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	E119	<.005	<.005
393006119462801	05-14-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.055	100	<.005	<.005
393023119513701	06-18-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	101	<.005	<.005
393033119465401	06-19-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.040	106	<.005	<.005
	06-19-02	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*E.041*	*118*	*<.005*	*<.005*
393050119552401	06-04-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	E.030	116	<.005	<.005
393054119445501	05-16-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	109	<.005	<.005
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	123	<.005	<.005
393123119452301	06-05-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	111	<.005	<.005
393208119491401	05-30-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	99.1	<.005	<.005
393249119422901	05-09-02	<.010	<.002	<.041	<.020	<.005	<.018	<.003	<.006	81.4	<.005	<.005
	05-09-02	*<.010*	*<.002*	*<.041*	*<.020*	*<.005*	*<.018*	*<.003*	*<.006*	*81.5*	*<.005*	*<.005*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	[a]HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	<.02	<.002	<.009	<.005	<.003	88.7	<.004	<.035	<.027	<.050	<.006
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.02	<.002	<.009	<.005	<.003	97.3	<.004	<.035	<.027	<.050	<.006
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.02	<.002	<.009	<.005	<.003	99.2	<.004	<.035	<.027	<.050	<.006
	09-16-02	<.02	<.002	<.009	<.005	<.003	115	<.004	<.035	<.027	<.050	<.006
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	<.02	<.002	<.009	<.005	<.003	98.3	<.004	<.035	<.027	<.050	<.006
390839119462701	05-29-02	<.02	<.002	<.009	<.005	<.003	101	<.004	<.035	<.027	<.050	<.006
390943119474801	04-30-02	<.02	<.002	<.009	<.005	<.003	111	<.004	<.035	<.027	<.050	<.006
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.02	<.002	<.009	<.005	<.003	106	<.004	<.035	<.027	<.050	<.006
391016119433901	06-13-02	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027	<.050	<.006
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	*.08*	*.116*	*.105*	*.109*	*.110*	*98.2*	*.120*	*.152*	*.135*	*E.218*	*.119*
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027	<.050	<.006
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	<.02	<.002	<.009	<.005	<.003	99.2	<.004	<.035	<.027	<.050	<.006
391110119460601	04-22-02	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*90.7*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
	04-23-02	<.02	<.002	<.009	<.005	<.003	91.0	<.004	<.035	<.027	<.050	<.006
391110119460602	04-24-02	<.02	<.002	<.009	<.005	<.003	89.5	<.004	<.035	<.027	<.050	<.006
391111119481901	05-22-02	<.02	<.002	<.009	<.005	<.003	102	<.004	<.035	<.027	<.050	<.006
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.02	<.002	<.009	<.005	<.003	97.2	<.004	<.035	<.027	<.050	<.006
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	<.027	<.050	<.006
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.02	<.002	<.009	<.005	<.003	83.9	<.004	<.035	<.027	<.050	<.006
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.02	<.002	<.009	<.005	<.003	100	<.004	<.035	<.027	<.050	<.006
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*88.8*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
	06-17-02	<.02	<.002	<.009	<.005	<.003	88.0	<.004	<.035	<.027	<.050	<.006
392726119460101	05-02-02	<.02	<.002	<.009	<.005	<.003	96.4	<.004	<.035	<.027	<.050	<.006
392744119464601	06-07-02	<.02	<.002	<.009	<.005	<.003	106	<.004	<.035	<.015	<.050	<.006
392837119485901	06-03-02	<.02	<.002	<.009	<.005	<.003	112	<.004	<.035	<.027	<.050	<.006
392918119464901	05-13-02	--	--	--	--	--	--	--	--	--	--	--
	05-13-02	<.02	<.002	<.009	<.005	<.003	112	<.004	<.035	<.027	<.050	<.006
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.02	<.002	<.009	<.005	<.003	103	<.004	<.035	<.027	<.050	<.006
	05-15-02	*.07*	*.104*	*.122*	*.105*	*.114*	*94.6*	*.102*	*.118*	*.139*	*E.330*	*.121*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.02	<.002	<.009	<.005	<.003	94.4	<.004	<.035	<.027	<.050	<.006
392944119440301	06-06-02	<.02	<.002	<.009	<.005	<.003	107	<.004	<.035	<.027	<.050	<.006
393006119462801	05-14-02	<.02	<.002	<.009	<.005	<.003	113	<.004	<.035	<.027	<.050	<.006
393023119513701	06-18-02	<.02	<.002	<.009	<.005	<.003	101	<.004	<.035	<.027	<.050	<.006
393033119465401	06-19-02	<.02	<.002	<.009	<.005	<.003	95.4	<.004	<.035	<.027	<.050	<.006
	06-19-02	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*94.6*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
393050119552401	06-04-02	<.02	<.002	<.009	<.005	<.003	96.5	<.004	<.035	<.027	<.050	<.025
393054119445501	05-16-02	<.02	<.002	<.009	<.005	<.003	106	<.004	<.035	<.027	<.050	<.006
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	<.02	<.002	<.009	<.005	<.003	113	<.004	<.035	<.027	<.050	<.006
393123119452301	06-05-02	<.02	<.002	<.009	<.005	<.003	98.2	<.004	<.035	<.027	<.050	<.006
393208119491401	05-30-02	<.02	<.002	<.009	<.005	<.003	95.5	<.004	<.035	<.027	<.050	<.006
393249119422901	05-09-02	<.02	<.002	<.009	<.005	<.003	88.9	<.004	<.035	<.027	<.050	<.006
	05-09-02	*<.02*	*<.002*	*<.009*	*<.005*	*<.003*	*82.0*	*<.004*	*<.035*	*<.027*	*<.050*	*<.006*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-16-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
390839119462701	05-29-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
390943119474801	04-30-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
391016119433901	06-13-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	E.01
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	*.130*	*.110*	*.110*	*.117*	*.077*	*.130*	*.124*	*.098*	*.077*	*.085*	*.14*
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
391110119460601	04-22-02	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*
	04-23-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
391110119460602	04-24-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
391111119481901	05-22-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*
	06-17-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
392726119460101	05-02-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
392744119464601	06-07-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.02
392837119485901	06-03-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
392918119464901	05-13-02	--	--	--	--	--	--	--	--	--	--	--
	05-13-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	05-15-02	*.112*	*.105*	*.110*	*.131*	*.086*	*.183*	*.112*	*.132*	*.104*	*.071*	*.12*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.05
392944119440301	06-06-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393006119462801	05-14-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393023119513701	06-18-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393033119465401	06-19-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	06-19-02	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*
393050119552401	06-04-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393054119445501	05-16-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393123119452301	06-05-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	.06
393208119491401	05-30-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
393249119422901	05-09-02	<.013	<.006	<.002	<.007	<.003	<.010	<.004	<.022	<.006	<.011	<.01
	05-09-02	*<.013*	*<.006*	*<.002*	*<.007*	*<.003*	*<.010*	*<.004*	*<.022*	*<.006*	*<.011*	*<.01*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
390708119450301	05-20-02	--	--	--	--	--	--	--	--	--	--	--
	05-20-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-16-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
390834119450701	06-11-02	--	--	--	--	--	--	--	--	--	--	--
	06-11-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
390839119462701	05-29-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
390943119474801	04-30-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.004	<.010	<.011	<.02	<.005	<.02	<.050	<.02	<.005	<.002	<.009
391016119433901	06-13-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
	06-13-02	*.105*	*.147*	*.119*	*.10*	*.081*	*.16*	*E.121*	*.09*	*.117*	*.102*	*.105*
391030119480701	05-28-02	--	--	--	--	--	--	--	--	--	--	--
	05-28-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
391055119451801	05-07-02	--	--	--	--	--	--	--	--	--	--	--
	05-07-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	E.004	<.002	<.009
391110119460601	04-22-02	*<.004*	*<.010*	*<.011*	*<.02*	*<.005*	*<.02*	*E.074*	*<.02*	*<.005*	*<.002*	*<.009*
	04-23-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
391110119460602	04-24-02	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005	<.002	<.009
391111119481901	05-22-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.004	<.010	<.011	<.02	.017	<.02	<.034	<.02	<.005	<.002	<.009
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	*<.004*	*<.010*	*<.011*	*<.02*	*<.011*	*<.02*	*<.034*	*<.02*	*<.005*	*<.002*	*<.009*
	06-17-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
392726119460101	05-02-02	<.004	<.010	<.011	<.02	.021	<.02	<.034	<.02	<.005	<.002	<.009
392744119464601	06-07-02	<.004	<.010	<.011	<.02	<.005	<.06	<.034	<.02	<.005	<.002	<.009
392837119485901	06-03-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
392918119464901	05-13-02	--	--	--	--	--	--	--	--	--	--	--
	05-13-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.004	<.010	<.011	<.02	<.008	<.02	<.034	<.02	<.005	<.002	<.009
	05-15-02	*.121*	*.133*	*.140*	*.11*	*.079*	*E.16*	*E.171*	*.09*	*.119*	*.110*	*.087*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
392944119440301	06-06-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
393006119462801	05-14-02	<.004	<.010	<.011	<.02	.030	<.02	<.034	<.02	<.005	<.002	<.009
393023119513701	06-18-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
393033119465401	06-19-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	06-19-02	*<.004*	*<.010*	*<.011*	*<.02*	*<.005*	*<.02*	*<.034*	*<.02*	*<.005*	*<.002*	*<.009*
393050119552401	06-04-02	<.004	<.010	<.011	<.02	<.007	<.02	<.034	<.02	<.005	<.002	<.009
393054119445501	05-16-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
393108119415101	06-03-02	--	--	--	--	--	--	--	--	--	--	--
	06-03-02	<.004	<.010	<.011	<.02	<.007	<.02	<.034	<.02	<.005	<.002	<.009
393123119452301	06-05-02	<.004	<.010	<.011	<.02	.008	<.02	<.034	<.02	<.005	<.002	<.009
393208119491401	05-30-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
393249119422901	05-09-02	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	<.009
	05-09-02	*<.004*	*<.010*	*<.011*	*<.02*	*<.005*	*<.02*	*<.034*	*<.02*	*<.005*	*<.002*	*<.009*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,1-DICHLOROPROPENE, WAT, WH TOTAL (UG/L) (77168)	123-TRICHLOROPROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2-DIBROMOETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	2,2-DICHLOROPROPANE WAT, WH TOTAL (UG/L) (77170)
390708119450301	05-20-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	05-20-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-16-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
390834119450701	06-11-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	06-11-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
390839119462701	05-29-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
390943119474801	04-30-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
391016119433901	06-13-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	06-13-02	*.24*	*.32*	*.32*	*.24*	*.47*	*1.82*	*.46*	*.9*	*.35*	*.24*	*.66*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	05-28-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
391055119451801	05-07-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	05-07-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
391110119460601	04-22-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	04-23-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
391110119460602	04-24-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
391111119481901	05-22-02	E.02	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	05-21-02	*1.35*	*1.60*	*1.68*	*1.29*	*2.99*	*8.65*	*2.36*	*4.7*	*1.81*	*1.28*	*3.12*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	E.02	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
392726119460101	05-02-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
392744119464601	06-07-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
392837119485901	06-03-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
392918119464901	05-13-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	05-13-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.03	<.06	.39	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
392944119440301	06-06-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393006119462801	05-14-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393023119513701	06-18-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393033119465401	06-19-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	06-19-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
393050119552401	06-04-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393054119445501	05-16-02	<.03	<.06	<.04	E.09	<.05	<.16	<.04	<.1	<.03	.12	<.05
393108119415101	06-03-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*E.02*	*<.03*	*<.05*
	06-03-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	E.02	<.03	<.05
393123119452301	06-05-02	E.01	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393208119491401	05-30-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
393249119422901	05-09-02	<.03	<.06	<.04	<.04	<.05	<.16	<.04	<.1	<.03	<.03	<.05
	05-09-02	*<.03*	*<.06*	*<.04*	*<.04*	*<.05*	*<.16*	*<.04*	*<.1*	*<.03*	*<.03*	*<.05*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	2BUTENE TRANS-1 4-DI- CHLORO UNFLTRD RECOVER (UG/L) (73547)	2-HEXA- NONE WATER WHOLE TOTAL (UG/L) (77103)	ACETONE WATER WHOLE TOTAL (UG/L) (81552)	ACRYLO- NITRILE TOTAL (UG/L) (34215)	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	BENZENE 123-TRI METHYL- WATER UNFLTRD RECOVER (UG/L) (77221)	BENZENE 1,2,4- TRI- CHLORO- WAT UNF REC (UG/L) (34551)	BENZENE 124-TRI METHYL UNFILT RECOVER (UG/L) (77222)	BENZENE 135-TRI METHYL WATER UNFLTRD REC (UG/L) (77226)	BENZENE 1,3-DI- CHLORO- WATER UNFLTRD REC (UG/L) (34566)	[a]BENZENE 14BRFL- SURROG VOC UNFLTRD REC PERCENT (99834)
390708119450301	05-20-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*94.5*
	05-20-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	90.0
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	73.7
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.7	<.7	9	<1	<.3	.4	<.1	1.34	.44	<.03	87.9
	09-16-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	97.5
390834119450701	06-11-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*111*
	06-11-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	109
390839119462701	05-29-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	91.2
390943119474801	04-30-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	105
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	109
391016119433901	06-13-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	88.8
	06-13-02	*5.8*	*6.6*	*29*	*24*	*2.3*	*.5*	*.7*	*.29*	*.23*	*.44*	*94.1*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*96.1*
	05-28-02	<.7	<.7	<7	<1	<.3	<.1	<.1	E.02	<.04	<.03	93.5
391055119451801	05-07-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*87.7*
	05-07-02	<.7	<.7	<7	<1	<.3	<.1	<.1	E.05	<.04	<.03	93.3
391110119460601	04-22-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*E.02*	*<.04*	*<.03*	*98.3*
	04-23-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	94.5
391110119460602	04-24-02	<.7	<.7	<7	<1	<.3	<.1	<.1	E.09	<.04	<.03	98.1
391111119481901	05-22-02	<.7	<.7	<7	<1	<.3	<.1	<.1	E.02	<.04	<.03	96.0
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	95.6
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	102
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	81.7
	05-21-02	*32.3*	*35.7*	*184*	*126*	*9.8*	*2.5*	*3.1*	*1.73*	*1.37*	*2.17*	*91.4*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	110
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	108
392726119460101	05-02-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	91.0
392744119464601	06-07-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	113
392837119485901	06-03-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	88.6
392918119464901	05-13-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*98.0*
	05-13-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	75.0
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	73.3
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	114
392944119440301	06-06-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	104
393006119462801	05-14-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	78.0
393023119513701	06-18-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	79.2
393033119465401	06-19-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	86.1
	06-19-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*87.4*
393050119552401	06-04-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	111
393054119445501	05-16-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	66.9
393108119415101	06-03-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*106*
	06-03-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	105
393123119452301	06-05-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	111
393208119491401	05-30-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	74.6
393249119422901	05-09-02	<.7	<.7	<7	<1	<.3	<.1	<.1	<.06	<.04	<.03	75.8
	05-09-02	*<.7*	*<.7*	*<7*	*<1*	*<.3*	*<.1*	*<.1*	*<.06*	*<.04*	*<.03*	*72.8*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	BENZENE 1,4-DI-CHLORO- WATER UNFLTRD REC (UG/L) (34571)	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE O-DI-CHLORO- WATER UNFLTRD REC (UG/L) (34536)	BENZENE SEC BUTYL- WATER UNFLTRD REC (UG/L) (77350)	BENZENE TERT-BUTYL- WATER UNFLTRD REC (UG/L) (77353)	BENZENE TOTAL (UG/L) (34030)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	BROMO-ETHENE WATER UNFLTRD RECOVER (UG/L) (50002)	BROMO-FORM TOTAL (UG/L) (32104)
390708119450301	05-20-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	05-20-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	.29	<.06	E.1	E.06	<.03	<.03	<.05	.21	<.04	<.1	<.06
	09-16-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
390834119450701	06-11-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	06-11-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
390839119462701	05-29-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
390943119474801	04-30-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
391016119433901	06-13-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	06-13-02	*.46*	*.22*	*.8*	*.23*	*.45*	*.22*	*.38*	*.48*	*.45*	*4.7*	*.93*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*E.02*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*E.02*	*<.04*	*<.1*	*<.06*
	05-28-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
391055119451801	05-07-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	05-07-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
391110119460601	04-22-02	*E.03*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	04-23-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
391110119460602	04-24-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
391111119481901	05-22-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	05-21-02	*2.31*	*1.24*	*4.0*	*1.39*	*2.15*	*1.36*	*2.18*	*2.67*	*2.13*	*17.3*	*4.59*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	E.02	<.04	<.1	<.06
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
392726119460101	05-02-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
392744119464601	06-07-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
392837119485901	06-03-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
392918119464901	05-13-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	05-13-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
392944119440301	06-06-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393006119462801	05-14-02	<.05	E.04	<.2	E.04	<.03	<.03	<.05	E.05	<.04	<.1	<.06
393023119513701	06-18-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393033119465401	06-19-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	06-19-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
393050119552401	06-04-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393054119445501	05-16-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393108119415101	06-03-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	06-03-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393123119452301	06-05-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393208119491401	05-30-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
393249119422901	05-09-02	<.05	<.06	<.2	<.04	<.03	<.03	<.05	<.04	<.04	<.1	<.06
	05-09-02	*<.05*	*<.06*	*<.2*	*<.04*	*<.03*	*<.03*	*<.05*	*<.04*	*<.04*	*<.1*	*<.06*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	CARBON DI-SULFIDE WATER WHOLE TOTAL (UG/L) (77041)	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	DIBROMO CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)
390708119450301	05-20-02	*E.03*	*<.06*	*<.03*	*<.2*	*<.1*	*9.63*	*<.04*	*<.09*	*<.5*	*<.05*	*.27*
	05-20-02	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05	<.05
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.07	<.06	<.03	<.2	<.1	E.02	<.04	<.09	<.5	<.05	<.05
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	E.05	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	09-16-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
390834119450701	06-11-02	*E.02*	*<.06*	*<.03*	*<.2*	*<.1*	*E.04*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	06-11-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
390839119462701	05-29-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
390943119474801	04-30-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
391016119433901	06-13-02	E.06	<.06	<.03	<.2	<.1	E.04	<.04	<.09	<.5	<.05	<.05
	06-13-02	*.43*	*.40*	*.43*	*.7*	*1.1*	*.31*	*.48*	*.33*	*1.6*	*.50*	*.26*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*.30*	*<.06*	*<.03*	*M*	*<.1*	*5.73*	*<.04*	*<.09*	*<.5*	*<.05*	*.30*
	05-28-02	<.07	<.06	<.03	<.2	<.1	1.41	<.04	<.09	<.5	<.05	<.05
391055119451801	05-07-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	05-07-02	E.03	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
391110119460601	04-22-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*.21*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	04-23-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
391110119460602	04-24-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
391111119481901	05-22-02	<.07	<.06	<.03	<.2	<.1	.35	<.04	<.09	<.5	<.05	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	05-21-02	*1.94*	*2.49*	*2.23*	*3.3*	*5.1*	*1.33*	*2.55*	*1.66*	*7.6*	*2.71*	*1.31*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	E.02	<.06	<.03	E.1	<.1	6.52	<.04	<.09	<.5	<.05	.98
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.07	<.06	<.03	<.2	<.1	.19	<.04	<.09	<.5	<.05	E.03
392726119460101	05-02-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
392744119464601	06-07-02	<.07	<.06	<.03	<.2	<.1	.11	<.04	<.09	<.5	<.05	<.05
392837119485901	06-03-02	<.07	<.06	<.03	<.2	<.1	E.03	<.04	<.09	<.5	<.05	<.05
392918119464901	05-13-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*E.02*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	05-13-02	<.07	<.06	<.03	<.2	<.1	.17	<.04	<.09	<.5	<.05	<.05
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.07	<.06	<.03	<.2	<.1	E.05	<.04	<.09	<.5	<.05	<.05
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
392944119440301	06-06-02	E.01	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
393006119462801	05-14-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
393023119513701	06-18-02	<.07	<.06	<.03	<.2	<.1	.26	<.04	<.09	<.5	<.05	<.05
393033119465401	06-19-02	<.07	<.06	<.03	<.2	<.1	.43	<.04	<.09	<.5	<.05	<.05
	06-19-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*.43*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
393050119552401	06-04-02	E.03	<.06	<.03	<.2	<.1	1.45	<.04	<.09	<.5	<.05	<.05
393054119445501	05-16-02	<.07	<.06	<.03	<.2	<.1	<.02	11.7	<.09	<.5	<.05	<.05
393108119415101	06-03-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*E.04*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	06-03-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
393123119452301	06-05-02	<.07	<.06	<.03	<.2	<.1	1.28	<.04	<.09	<.5	<.05	<.05
393208119491401	05-30-02	<.07	.22	<.03	<.2	<.1	.97	<.04	<.09	<.5	<.05	E.06
393249119422901	05-09-02	<.07	<.06	<.03	<.2	<.1	<.02	<.04	<.09	<.5	<.05	<.05
	05-09-02	*<.07*	*<.06*	*<.03*	*<.2*	*<.1*	*<.02*	*<.04*	*<.09*	*<.5*	*<.05*	*<.05*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	DI-ISO-PROPYL-ETHER, WATER, UNFLTRD RECOVER (UG/L) (81577)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	[a]ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	ETHER ETHYL WATER UNFLTRD RECOVER (UG/L) (81576)	ETHER TERT-BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT-PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	ETHYL-BENZENE TOTAL (UG/L) (34371)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)
390708119450301	05-20-02	*<.18*	*<.10*	*<.03*	*<.09*	*110*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	05-20-02	<.18	<.10	<.03	<.09	115	<.2	<.2	<.05	<.08	<.03	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.18	<.10	<.03	<.09	103	<.2	<.2	<.05	<.08	<.03	<.06
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	.11	<.06
	09-16-02	<.18	<.10	<.03	<.09	111	<.2	<.2	<.05	<.08	<.03	<.06
390834119450701	06-11-02	*<.18*	*<.10*	*<.03*	*<.09*	*103*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	06-11-02	<.18	<.10	<.03	<.09	103	<.2	<.2	<.05	<.08	<.03	<.06
390839119462701	05-29-02	<.18	<.10	<.03	<.09	110	<.2	<.2	<.05	<.08	<.03	<.06
390943119474801	04-30-02	<.18	<.10	<.03	<.09	123	<.2	<.2	<.05	<.08	<.03	<.06
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	<.03	<.06
391016119433901	06-13-02	<.18	<.10	<.03	<.09	107	<.2	<.2	<.05	<.08	<.03	<.06
	06-13-02	*E4.48*	*.31*	*.46*	*.46*	*104*	*1.7*	*.6*	*.22*	*.43*	*.45*	*.27*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<.18*	*<.10*	*<.03*	*<.09*	*109*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	05-28-02	<.18	<.10	<.03	<.09	115	<.2	<.2	<.05	<.08	<.03	<.06
391055119451801	05-07-02	*<.18*	*<.10*	*<.03*	*<.09*	*111*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	05-07-02	<.18	<.10	<.03	<.09	114	<.2	<.2	<.05	<.08	<.03	<.06
391110119460601	04-22-02	*<.18*	*<.10*	*<.03*	*<.09*	*110*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	04-23-02	<.18	<.10	<.03	<.09	111	<.2	<.2	<.05	<.08	<.03	<.06
391110119460602	04-24-02	<.18	<.10	<.03	<.09	112	<.2	<.2	<.05	<.08	<.03	<.06
391111119481901	05-22-02	<.18	<.10	<.03	<.09	111	<.2	<.2	<.05	<.08	<.03	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.18	<.10	<.03	<.09	116	<.2	<.2	<.05	<.08	<.03	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.18	<.10	<.03	<.09	102	<.2	<.2	<.05	<.08	<.03	<.06
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.18	<.10	<.03	<.09	114	<.2	<.2	<.05	<.08	<.03	<.06
	05-21-02	*E14.4*	*1.65*	*2.44*	*2.41*	*103*	*8.8*	*2.9*	*1.05*	*2.24*	*2.45*	*1.51*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.18	<.10	<.03	<.09	107	<.2	<.2	<.05	<.08	<.03	<.06
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	<.03	<.06
392726119460101	05-02-02	<.18	<.10	<.03	<.09	110	<.2	<.2	<.05	<.08	<.03	<.06
392744119464601	06-07-02	<.18	<.10	<.03	<.09	102	<.2	<.2	<.05	<.08	<.03	<.06
392837119485901	06-03-02	<.18	<.10	<.03	<.09	107	<.2	<.2	<.05	<.08	<.03	<.06
392918119464901	05-13-02	*<.18*	*<.10*	*<.03*	*<.09*	*102*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	05-13-02	<.18	<.10	<.03	<.09	95.9	<.2	<.2	<.05	<.08	<.03	<.06
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.18	<.10	<.03	<.09	114	<.2	<.2	<.05	<.08	<.03	<.06
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.18	<.10	<.03	<.09	96.1	<.2	<.2	<.05	<.08	<.03	<.06
392944119440301	06-06-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	<.03	<.06
393006119462801	05-14-02	<.18	<.10	<.03	<.09	99.2	<.2	<.2	<.05	<.08	<.03	<.06
393023119513701	06-18-02	<.18	<.10	<.03	<.09	86.4	<.2	<.2	<.05	<.08	<.03	<.06
393033119465401	06-19-02	<.18	<.10	<.03	<.09	110	<.2	<.2	<.05	<.08	<.03	<.06
	06-19-02	*<.18*	*<.10*	*<.03*	*<.09*	*116*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
393050119552401	06-04-02	<.18	<.10	<.03	<.09	112	<.2	<.2	<.05	<.08	<.03	<.06
393054119445501	05-16-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	<.03	<.06
393108119415101	06-03-02	*<.18*	*<.10*	*<.03*	*<.09*	*106*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	06-03-02	<.18	<.10	<.03	<.09	110	<.2	<.2	<.05	<.08	<.03	<.06
393123119452301	06-05-02	<.18	<.10	<.03	<.09	106	<.2	<.2	<.05	<.08	<.03	<.06
393208119491401	05-30-02	<.18	<.10	<.03	<.09	111	<.2	<.2	<.05	<.08	<.03	<.06
393249119422901	05-09-02	<.18	<.10	<.03	<.09	98.8	<.2	<.2	<.05	<.08	<.03	<.06
	05-09-02	*<.18*	*<.10*	*<.03*	*<.09*	*94.1*	*<.2*	*<.2*	*<.05*	*<.08*	*<.03*	*<.06*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	FURAN, TETRA-HYDRO- WATER UNFLTRD RECOVER (UG/L) (81607)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ISO-DURENE WATER UNFLTRD RECOVER (UG/L) (50000)	METHAC-RYLATE ETHYL- WATER UNFLTRD RECOVER (UG/L) (73570)	METHAC-RYLATE METHYL WATER UNFLTRD RECOVER (UG/L) (81597)	METH-ACRYLO-NITRILE WATER UNFLTRD RECOVER (UG/L) (81593)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	METHYL ACRY-LATE WATER UNFLTRD RECOVER (UG/L) (49991)	METHYL IODIDE WATER UNFLTRD RECOVER (UG/L) (77424)	METHYL TERT-BUTYL ETHER WAT UNF REC (UG/L) (78032)	METHYL-BROMIDE TOTAL (UG/L) (34413)
390708119450301	05-20-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	05-20-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<2	<.1	E.5	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3
	09-16-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
390834119450701	06-11-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	06-11-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
390839119462701	05-29-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
390943119474801	04-30-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
391016119433901	06-13-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	06-13-02	*18*	*1.3*	*1.0*	*.9*	*2.9*	*9.8*	*1.23*	*24.0*	*E1.37*	*.7*	*E1.6*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*M*	*<.3*
	05-28-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
391055119451801	05-07-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	05-07-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
391110119460601	04-22-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	04-23-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
391110119460602	04-24-02	E1	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	4.7	<.3
391111119481901	05-22-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	14	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	05-21-02	113	6.5	3.7	4.6	14.9	49.3	6.10	121	E7.02	3.4	E11.6
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	.2	<.3
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
392726119460101	05-02-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
392744119464601	06-07-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	E.1	<.3
392837119485901	06-03-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
392918119464901	05-13-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	05-13-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
392944119440301	06-06-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393006119462801	05-14-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	12.7	<.3
393023119513701	06-18-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393033119465401	06-19-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	06-19-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
393050119552401	06-04-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393054119445501	05-16-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393108119415101	06-03-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	06-03-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393123119452301	06-05-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393208119491401	05-30-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
393249119422901	05-09-02	<2	<.1	<.2	<.2	<.3	<.6	<.07	<2.0	<.25	<.2	<.3
	05-09-02	*<2*	*<.1*	*<.2*	*<.2*	*<.3*	*<.6*	*<.07*	*<2.0*	*<.25*	*<.2*	*<.3*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	METHYL-CHLORIDE TOTAL (UG/L) (34418)	METHYLENE CHLORIDE TOTAL (UG/L) (34423)	METHYL-ETHYL-KETONE WATER WHOLE TOTAL (UG/L) (81595)	METHYL ISOBUTYL KETONE WAT.WH. TOTAL (UG/L) (78133)	META/PARA-XYLENE WATER UNFLTRD REC (UG/L) (85795)	NAPHTHALENE TOTAL (UG/L) (34696)	O-CHLOROTOLUENE WATER WHOLE TOTAL (UG/L) (77275)	O-XYLENE WATER WHOLE TOTAL (UG/L) (77135)	P-ISOPROPYLTOLUENE WATER WHOLE REC (UG/L) (77356)	1234-TETRA METHYL BENZENE UNFLTRD REC (UG/L) (49999)	1,3-DICHLOROPROPANE WAT. WH TOTAL (UG/L) (77173)
390708119450301	05-20-02	*<.2*	*E.1*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	05-20-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.2	<.2	<5.0	E.3	.67	<.5	<.03	.32	E.06	E.3	<.1
	09-16-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
390834119450701	06-11-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	06-11-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
390839119462701	05-29-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
390943119474801	04-30-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
391016119433901	06-13-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	06-13-02	*E2.1*	*3.0*	*37.8*	*4.1*	*.58*	*3.6*	*.48*	*.28*	*.46*	*2.3*	*.7*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<.2*	*E.1*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	05-28-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
391055119451801	05-07-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	05-07-02	<.2	<.2	<5.0	<.4	E.05	<.5	<.03	<.07	E.03	<.2	<.1
391110119460601	04-22-02	*<.2*	*<.2*	*<5.0*	*<.4*	*E.02*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	04-23-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
391110119460602	04-24-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
391111119481901	05-22-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	05-21-02	*E12.2*	*13.0*	*188*	*23.9*	*3.11*	*19.0*	*2.58*	*1.53*	*2.55*	*9.3*	*4.0*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
392726119460101	05-02-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
392744119464601	06-07-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
392837119485901	06-03-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
392918119464901	05-13-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	05-13-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
392944119440301	06-06-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393006119462801	05-14-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393023119513701	06-18-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393033119465401	06-19-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	06-19-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
393050119552401	06-04-02	M	M	<5.0	<.4	E.02	<.5	<.03	<.07	<.07	<.2	<.1
393054119445501	05-16-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393108119415101	06-03-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	06-03-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393123119452301	06-05-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393208119491401	05-30-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
393249119422901	05-09-02	<.2	<.2	<5.0	<.4	<.06	<.5	<.03	<.07	<.07	<.2	<.1
	05-09-02	*<.2*	*<.2*	*<5.0*	*<.4*	*<.06*	*<.5*	*<.03*	*<.07*	*<.07*	*<.2*	*<.1*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	PROPENE 3-CHLORO-WATER UNFLTRD RECOVER (UG/L) (78109)	STYRENE TOTAL (UG/L) (77128)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	[a]TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE O-ETHYL WATER UNFLTRD RECOVER (UG/L) (77220)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)
390708119450301	05-20-02	*<.07*	*<.04*	*<.03*	*95.6*	*<.06*	*<.05*	*E.05*	*<.09*	*<.04*	*<.09*	*<.1*
	05-20-02	<.07	<.04	<.03	96.8	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390758119453701	05-08-02	<.07	<.04	<.03	94.7	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	09-16-02	--	--	--	--	--	--	--	--	--	--	--
390810119450101	05-06-02	<.07	<.04	E.02	95.6	.13	<.05	.45	<.09	<.04	<.09	<.1
	09-16-02	<.07	<.04	<.03	102	<.06	<.05	E.03	<.09	<.04	<.09	<.1
390834119450701	06-11-02	*<.07*	*<.04*	*<.03*	*105*	*<.06*	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*
	06-11-02	<.07	<.04	<.03	102	<.06	<.05	<.05	<.09	<.04	<.09	<.1
390839119462701	05-29-02	<.07	<.04	<.03	103	<.06	<.05	<.05	<.09	<.04	<.09	<.1
390943119474801	04-30-02	<.07	<.04	<.03	102	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	06-26-02	--	--	--	--	--	--	--	--	--	--	--
391007119471102	06-04-02	<.07	<.04	<.03	102	<.06	<.05	<.05	<.09	<.04	<.09	<.1
391016119433901	06-13-02	<.07	<.04	<.03	100	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	06-13-02	*.56*	*.24*	*1.00*	*99.3*	*.36*	*.52*	*.47*	*.49*	*.46*	*.81*	*1.0*
	06-13-02	--	--	--	--	--	--	--	--	--	--	--
391030119480701	05-28-02	*<.07*	*<.04*	*E.01*	*101*	*<.06*	*<.05*	*E.02*	*<.09*	*<.04*	*<.09*	*<.1*
	05-28-02	<.07	<.04	E.02	102	<.06	<.05	<.05	<.09	<.04	<.09	<.1
391055119451801	05-07-02	*<.07*	*<.04*	*<.03*	*94.3*	*<.06*	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*
	05-07-02	<.07	<.04	E.02	95.2	<.06	<.05	<.05	<.09	<.04	<.09	<.1
391110119460601	04-22-02	*<.07*	*<.04*	*<.03*	*99.4*	*<.06*	*<.05*	*E.02*	*<.09*	*<.04*	*<.09*	*<.1*
	04-23-02	<.07	<.04	<.03	97.7	<.06	<.05	<.05	<.09	<.04	<.09	<.1
391110119460602	04-24-02	<.07	<.04	<.03	98.9	<.06	<.05	<.05	<.09	<.04	<.09	<.1
391111119481901	05-22-02	<.07	<.04	<.03	100	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391126119423201	05-01-02	<.07	<.04	<.03	98.0	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391127119442501	06-20-02	<.07	<.04	E.01	99.4	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
391231119442903	05-21-02	<.07	<.04	<.03	95.8	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	05-21-02	*2.84*	*1.26*	*5.76*	*102*	*2.04*	*2.82*	*2.49*	*2.39*	*2.53*	*4.95*	*5.0*
	05-21-02	--	--	--	--	--	--	--	--	--	--	--
	09-17-02	--	--	--	--	--	--	--	--	--	--	--
392507119462001	06-05-02	<.07	<.04	<.03	102	<.06	<.05	E.02	<.09	<.04	<.09	<.1
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392541119463101	06-17-02	--	--	--	--	--	--	--	--	--	--	--
	06-17-02	<.07	<.04	E.01	101	<.06	<.05	<.05	<.09	<.04	<.09	<.1
392726119460101	05-02-02	<.07	<.04	<.03	100	<.06	<.05	<.05	<.09	<.04	<.09	<.1
392744119464601	06-07-02	<.07	<.04	E.05	103	<.06	<.05	<.05	<.09	E.03	<.09	<.1
392837119485901	06-03-02	<.07	<.04	<.03	100	<.06	<.05	<.05	<.09	<.04	<.09	<.1
392918119464901	05-13-02	*<.07*	*<.04*	*<.03*	*97.3*	*<.06*	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*
	05-13-02	<.07	<.04	E.06	92.9	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	06-27-02	--	--	--	--	--	--	--	--	--	--	--
392927119475201	05-15-02	<.07	<.04	<.03	96.4	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	05-15-02	--	--	--	--	--	--	--	--	--	--	--
	09-18-02	--	--	--	--	--	--	--	--	--	--	--
392937119452601	06-12-02	<.07	<.04	<.03	104	<.06	<.05	<.05	<.09	<.04	<.09	<.1
392944119440301	06-06-02	<.07	<.04	<.03	101	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393006119462801	05-14-02	<.07	<.04	<.03	92.2	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393023119513701	06-18-02	<.07	<.04	E.01	94.9	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393033119465401	06-19-02	<.07	<.04	14.7	100	<.06	<.05	<.05	<.09	.12	<.09	<.1
	06-19-02	*<.07*	*<.04*	*14.9*	*101*	*<.06*	*<.05*	*<.05*	*<.09*	*.12*	*<.09*	*<.1*
393050119552401	06-04-02	<.07	<.04	<.03	103	<.06	<.05	E.02	<.09	<.04	<.09	<.1
393054119445501	05-16-02	<.07	<.04	14.8	93.7	<.06	<.05	<.05	<.09	19.2	<.09	.2
393108119415101	06-03-02	*<.07*	*<.04*	*<.03*	*101*	*<.06*	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*
	06-03-02	<.07	<.04	E.03	98.3	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393123119452301	06-05-02	<.07	<.04	E.04	102	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393208119491401	05-30-02	<.07	<.04	E.03	93.9	<.06	<.05	<.05	<.09	<.04	<.09	<.1
393249119422901	05-09-02	<.07	<.04	<.03	92.1	<.06	<.05	<.05	<.09	<.04	<.09	<.1
	05-09-02	*<.07*	*<.04*	*<.03*	*92.0*	*<.06*	*<.05*	*<.05*	*<.09*	*<.04*	*<.09*	*<.1*
	09-18-02	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Date	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (PCI/L) (07000)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L) (75985)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
390708119450301	05-20-02	--	--	--	--	*<.02*
	05-20-02	--	--	--	--	5.27
	09-16-02	-111	-14.62	--	--	--
390758119453701	05-08-02	--	--	--	--	.57
	09-16-02	-105	-13.70	--	--	--
390810119450101	05-06-02	--	--	--	--	15.1
	09-16-02	-103	-13.34	--	--	--
390834119450701	06-11-02	--	--	--	--	--
	06-11-02	--	--	9.0	.58	115
390839119462701	05-29-02	--	--	--	--	.68
390943119474801	04-30-02	--	--	--	--	.20
	06-26-02	--	--	19.1	1.3	--
391007119471102	06-04-02	--	--	--	--	52.0
391016119433901	06-13-02	--	--	--	--	67.7
	06-13-02	--	--	--	--	--
	06-13-02	--	--	--	--	--
391030119480701	05-28-02	--	--	--	--	--
	05-28-02	--	--	7.7	.58	10.3
391055119451801	05-07-02	--	--	--	--	--
	05-07-02	--	--	--	--	11.9
391110119460601	04-22-02	--	--	--	--	*<.02*
	04-23-02	--	--	.2	.58	18.6
391110119460602	04-24-02	--	--	9.5	.64	1240
391111119481901	05-22-02	--	--	--	--	35.8
	09-17-02	-106	-14.11	--	--	--
391126119423201	05-01-02	--	--	--	--	85.3
	09-17-02	-106	-13.43	--	--	--
391127119442501	06-20-02	--	--	--	--	32.0
	09-17-02	-110	-13.81	--	--	--
391231119442903	05-21-02	--	--	--	--	11.3
	05-21-02	--	--	--	--	--
	05-21-02	--	--	--	--	*11.3*
	09-17-02	-113	-14.40	--	--	--
392507119462001	06-05-02	--	--	--	--	2.26
	09-18-02	-90.10	-11.76	--	--	--
392541119463101	06-17-02	--	--	--	--	*E.01*
	06-17-02	--	--	--	--	16.1
392726119460101	05-02-02	--	--	--	--	17.6
392744119464601	06-07-02	--	--	--	--	5.06
392837119485901	06-03-02	--	--	24.8	1.7	.69
392918119464901	05-13-02	--	--	--	--	*<.02*
	05-13-02	--	--	--	--	31.9
	06-27-02	--	--	25.8	1.7	--
392927119475201	05-15-02	--	--	--	--	.90
	05-15-02	--	--	--	--	--
	09-18-02	-104	-13.38	--	--	--
392937119452601	06-12-02	--	--	10.4	.70	86.4
392944119440301	06-06-02	--	--	.4	.58	.20
393006119462801	05-14-02	--	--	--	--	103
393023119513701	06-18-02	--	--	--	--	2.08
393033119465401	06-19-02	--	--	--	--	12.3
	06-19-02	--	--	--	--	*12.2*
393050119552401	06-04-02	--	--	--	--	12.1
393054119445501	05-16-02	--	--	--	--	.20
393108119415101	06-03-02	--	--	--	--	--
	06-03-02	--	--	--	--	.75
393123119452301	06-05-02	--	--	--	--	.39
393208119491401	05-30-02	--	--	--	--	8.59
393249119422901	05-09-02	--	--	--	--	14.6
	05-09-02	--	--	--	--	*14.6*
	09-18-02	-89.40	-11.22	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

Water-quality measurements in the following table were made as part of the National Water-Quality Assessment Program (NAWQA) as part of a miscellaneous measurement program. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figures 32, 35, and 39.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
390943119474801	104 N15 E19 13CADA1 USGS KINGS NUMBER 1	02-01-01	1250	ENVIRONMENTAL	47.49	108.	4889.
		08-29-01	1015	ENVIRONMENTAL	54.82	108.	4889.
390949119475501	104 N15 E19 13CAAB1 USGS KINGS NUMBER 2 SHALLOW	02-02-01	1050	ENVIRONMENTAL	42.08	104.	4888.
		08-29-01	1330	ENVIRONMENTAL	50.09	104.	4888.
391007119471102	104 N15 E20 18BBCC2 CARSON CITY MONITOR	02-01-01	0955	ENVIRONMENTAL	24.23	50.	4795.
		09-07-01	0945	ENVIRONMENTAL	35.22	50.	4795.
391030119480701	104 N15 E19 12CCAA1 USGS ASH-1 SHALLOW	01-29-01	1130	**FIELD BLANK**	--	--	*5063.*
		01-29-01	1415	ENVIRONMENTAL	137.83	185.	5063.
		08-27-01	0840	**FIELD BLANK**	--	--	*5063.*
		08-27-01	1115	ENVIRONMENTAL	140.82	185.	5063.
391100119465101	104 N15 E20 07BACD1 MW46	11-15-01	1030	ENVIRONMENTAL	--	250.	4785.
391105119481101	104 N15 E19 12BBCB1 USGS VC-6 SHALLOW	01-30-01	1430	ENVIRONMENTAL	137.46	163.	5182.
		08-28-01	0945	ENVIRONMENTAL	139.92	163.	5182.
391105119481102	104 N15 E19 12BBCB2 USGS VC-6 DEEP	01-30-01	1220	ENVIRONMENTAL	132.92	210.	5182.
		08-27-01	1500	ENVIRONMENTAL	141.74	210.	5182.
391111119481901	104 N15 E19 01CCCC1 USGS VC-8	01-31-01	1215	ENVIRONMENTAL	95.04	117.	5208.
		08-28-01	1235	ENVIRONMENTAL	96.46	117.	5208.
393559119431902	085 N20 E20 15DBBB2 USGS 4A	11-14-01	1055	ENVIRONMENTAL	6.42	27.	4459.
393713119430001	085 N20 E20 10AACB1 USGS - LAZY 5A	11-08-01	1030	**FIELD BLANK**	--	--	*4475.*
		11-13-01	1115	ENVIRONMENTAL	7.42	32.	4475.

Station number	Date	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
390943119474801	02-01-01	--	647	5.3	56	6.5	228	--	10.3	23.5	7.38	3.16
	08-29-01	.56	636	4.4	50	6.6	234	23.0	12.8	22.9	7.44	3.02
390949119475501	02-02-01	--	645	6.0	65	6.7	233	5.0	11.6	25.2	7.06	3.39
	08-29-01	.40	636	5.2	64	6.8	257	30.0	16.4	24.6	7.17	3.53
391007119471102	02-01-01	--	647	.9	9	6.3	386	--	11.3	46.3	6.11	2.76
	09-07-01	1.5	642	.8	9	6.4	288	16.0	12.3	33.3	5.29	2.70
391030119480701	01-29-01	--	--	--	--	--	--	--	--	*.14*	*<.008*	*<.24*
	01-29-01	--	692	4.5	46	7.3	254	5.5	11.7	31.7	4.75	2.39
	08-27-01	--	--	--	--	--	--	--	--	*.10*	*.009*	*<.09*
	08-27-01	1.0	638	3.6	44	7.3	271	34.0	16.1	31.3	4.86	2.41
391100119465101	11-15-01	--	640	7.7	85	6.8	276	--	12.0	31.1	7.21	2.35
391105119481101	01-30-01	--	635	5.4	58	6.6	151	3.0	10.5	16.1	3.04	2.98
	08-28-01	.55	631	5.3	62	6.9	156	22.5	13.9	15.1	3.01	3.15
391105119481102	01-30-01	--	636	3.9	43	7.2	163	6.0	11.5	16.7	3.94	3.35
	08-27-01	.50	632	3.8	47	7.6	184	33.5	16.5	16.0	3.99	3.07
391111119481901	01-31-01	--	637	6.9	76	6.2	298	2.5	11.8	29.9	8.71	3.03
	08-28-01	.55	630	6.2	79	6.6	311	--	17.6	28.5	8.61	3.13
393559119431902	11-14-01	<1.0	652	2.4	28	7.8	528	--	14.9	27.8	9.48	3.07
393713119430001	11-08-01	--	--	--	--	--	--	--	--	*.08*	*<.008*	*<.10*
	11-13-01	.25	649	2.4	27	7.7	297	--	13.6	17.6	5.04	3.92

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
390943119474801	02-01-01	10.5	96	118	.01	9.53	<.2	30.5	3.6	150	151	<.04
	08-29-01	10.2	86	105	.02	10.1	<.2	31.2	3.6	158	145	<.04
390949119475501	02-02-01	13.8	115	140	.02	2.59	E.1	31.7	4.7	161	163	<.04
	08-29-01	13.9	105	129	.02	2.48	E.1	32.4	4.7	168	158	<.04
391007119471102	02-01-01	12.9	130	159	.02	5.46	<.2	29.4	27.7	221	219	<.04
	09-07-01	12.9	92	111	.02	3.03	<.2	30.4	24.7	184	176	<.04
391030119480701	01-29-01	*<.06*	--	--	*<.01*	*<.08*	*<.2*	*<.09*	*<.1*	*<10*	--	*<.04*
	01-29-01	15.0	126	154	.02	1.89	<.2	21.7	5.7	158	160	<.04
	08-27-01	*E.04*	--	--	*<.01*	*<.08*	*<.2*	*.29*	*<.1*	*<10*	--	*<.04*
	08-27-01	15.4	126	154	<.01	1.81	<.2	22.2	5.8	169	160	<.04
391100119465101	11-15-01	9.98	68	83	.08	14.4	<.1	29.7	4.2	194	188	<.04
391105119481101	01-30-01	9.51	67	82	<.01	2.58	<.2	29.4	2.2	112	113	<.04
	08-28-01	9.80	58	71	<.01	2.38	<.2	29.5	2.1	115	100	<.04
391105119481102	01-30-01	12.4	89	108	<.01	1.24	<.2	27.5	1.4	116	121	<.04
	08-27-01	12.5	87	106	<.01	1.21	<.2	28.0	1.6	122	118	<.04
391111119481901	01-31-01	16.6	96	116	.02	22.0	<.2	41.1	7.0	210	209	<.04
	08-28-01	16.8	78	96	<.01	22.5	<.2	41.9	6.8	212	175	<.04
393559119431902	11-14-01	78.5	233	285	.08	9.37	.3	58.9	32.9	362	372	.28
393713119430001	11-08-01	*E.06*	--	--	*<.03*	*<.30*	*E.1*	*<.13*	*<.1*	*<10*	--	*<.04*
	11-13-01	42.2	137	167	.04	7.90	.3	59.4	8.3	224	232	.14

Station number	Date	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
390943119474801	02-01-01	<.10	1.04	<.006	.039	.04	--	--	--	--	--	--
	08-29-01	<.10	.96	<.006	.038	.04	--	--	--	--	--	--
390949119475501	02-02-01	<.10	1.25	<.006	.046	.04	--	--	--	--	--	--
	08-29-01	<.10	1.30	<.006	.049	.05	--	--	--	--	--	--
391007119471102	02-01-01	.11	2.10	<.006	.32	.27	--	--	--	--	--	--
	09-07-01	<.10	1.90	<.006	.147	.13	--	--	--	--	--	--
391030119480701	01-29-01	*<.10*	*<.05*	*<.006*	*<.006*	*<.02*	--	--	--	--	--	--
	01-29-01	<.10	.34	<.006	.010	E.01	--	--	--	--	--	--
	08-27-01	*<.10*	*E.02*	*<.006*	*<.006*	*<.02*	--	--	--	--	--	--
	08-27-01	<.10	E.34	<.006	.013	E.01	--	--	--	--	--	--
391100119465101	11-15-01	E.06	10.9	<.008	--	E.01	1.4	<1	E.03	E.1	26	<.06
391105119481101	01-30-01	E.07	1.59	<.006	.023	.02	--	--	--	--	--	--
	08-28-01	<.10	E1.25	<.006	.022	E.02	--	--	--	--	--	--
391105119481102	01-30-01	<.10	.27	<.006	.017	E.02	--	--	--	--	--	--
	08-27-01	<.10	E.30	<.006	.020	E.02	--	--	--	--	--	--
391111119481901	01-31-01	E.09	5.40	<.006	.033	.03	--	--	--	--	--	--
	08-28-01	<.10	E5.55	<.006	.035	E.03	--	--	--	--	--	--
393559119431902	11-14-01	.36	2.49	<.008	--	.04	.6	<1	.24	3.6	98	<.06
393713119430001	11-08-01	*<.10*	*<.05*	*<.008*	--	*<.02*	*.5*	*<1*	*<.05*	*<.2*	*<1*	*<.06*
	11-13-01	.18	.85	E.006	--	.15	1.7	<1	.17	6.6	60	<.06

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
390943119474801	02-01-01	--	--	--	--	--	<10	--	--	<3.2	--	--
	08-29-01	--	--	--	--	--	<10	--	--	<3.0	--	--
390949119475501	02-02-01	--	--	--	--	--	E8	--	--	<3.2	--	--
	08-29-01	--	--	--	--	--	<10	--	--	<3.0	--	--
391007119471102	02-01-01	--	--	--	--	--	<10	--	--	94.6	--	--
	09-07-01	--	--	--	--	--	<10	--	--	59.7	--	--
391030119480701	01-29-01	--	--	--	--	--	*<10*	--	--	*<3.2*	--	--
	01-29-01	--	--	--	--	--	E7	--	--	<3.2	--	--
	08-27-01	--	--	--	--	--	*E7*	--	--	*5.0*	--	--
	08-27-01	--	--	--	--	--	<10	--	--	<3.0	--	--
391100119465101	11-15-01	9	<.04	<.8	.06	.8	<10	E.06	14.2	<.1	.4	.18
391105119481101	01-30-01	--	--	--	--	--	<10	--	--	<3.2	--	--
	08-28-01	--	--	--	--	--	<10	--	--	<3.0	--	--
391105119481102	01-30-01	--	--	--	--	--	<10	--	--	<3.2	--	--
	08-27-01	--	--	--	--	--	<10	--	--	<3.0	--	--
391111119481901	01-31-01	--	--	--	--	--	<10	--	--	<3.2	--	--
	08-28-01	--	--	--	--	--	<10	--	--	<3.0	--	--
393559119431902	11-14-01	105	<.04	1.0	.17	E.2	30	<.08	2.7	183	7.9	1.44
393713119430001	11-08-01	*<7*	*<.04*	*<.8*	*<.02*	*<.2*	*<10*	*E.07*	*<.3*	*<.1*	*<.2*	*E.03*
	11-13-01	111	<.04	<.8	.15	E.2	113	<.08	.9	174	5.4	.54

Station number	Date	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	1,4-DI-CHLORO-BENZENE DISSOLV (UG/L) (34572)	1METHYL NAPH-THALENE WATER, FLTERD REC (UG/L) (62054)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	26DIMET NAPH-THALENE WATER, FLTERD REC (UG/L) (62055)	2METHYL NAPH-THALENE WATER, FLTERD REC (UG/L) (62056)
390943119474801	02-01-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-29-01	--	--	--	--	--	--	M	<.5	<.002	<.5	<.5
390949119475501	02-02-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-29-01	--	--	--	--	--	--	M	<.5	<.002	<.5	<.5
391007119471102	02-01-01	--	--	--	--	--	--	--	--	<.002	--	--
	09-07-01	--	--	--	--	--	--	<.5	<.5	<.002	<.5	<.5
391030119480701	01-29-01	--	--	--	--	--	--	--	--	*<.002*	--	--
	01-29-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-27-01	--	--	--	--	--	--	*M*	*<.5*	*<.002*	*<.5*	*<.5*
	08-27-01	--	--	--	--	--	--	M	<.5	<.002	<.5	<.5
391100119465101	11-15-01	<.3	<1	335	<.04	2.8	3	<.5	<.5	<.002	<.5	<.5
391105119481101	01-30-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-28-01	--	--	--	--	--	--	--	--	<.002	--	--
391105119481102	01-30-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-27-01	--	--	--	--	--	--	--	--	<.002	--	--
391111119481901	01-31-01	--	--	--	--	--	--	--	--	<.002	--	--
	08-28-01	--	--	--	--	--	--	E.1	<.5	<.002	<.5	<.5
393559119431902	11-14-01	.5	<1	382	<.04	19.6	<1	--	--	<.002	--	--
393713119430001	11-08-01	*<.3*	*<1*	*E.07*	*<.04*	*<.2*	*<1*	*<.5*	*<.5*	*<.002*	*<.5*	*<.5*
	11-13-01	E.2	<1	200	<.04	9.5	<1	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	3-BETA-COPROSTANOL, WATER, FLTERD REC (UG/L) (62057)	3METHYL 1(H)-INDOLE, WATER, FLTERD REC (UG/L) (62058)	3-TERT-BHA, WATER, FLTERD REC (UG/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (UG/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (UG/L) (62061)	4-TERT-OCTYL-PHENOL, WATER, FLTERD REC (UG/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (UG/L) (62063)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ACETO-PHENONE WATER, FLTERD REC (UG/L) (62064)	AHT NAPH-THALENE WATER, FLTERD REC (UG/L) (62065)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)
390943119474801	02-01-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-29-01	<2	<1	<5	<1	<1	<1	<2	<.004	<.5	<.5	<.002
390949119475501	02-02-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-29-01	<2	<1	<5	<1	<1	<1	<2	<.004	<.5	<.5	<.002
391007119471102	02-01-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	09-07-01	<2	<1	<5	<1	<1	M	<2	<.004	<.5	<.5	<.002
391030119480701	01-29-01	--	--	--	--	--	--	--	*<.004*	--	--	*<.002*
	01-29-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-27-01	*<2*	*<1*	*<5*	*<1*	*<1*	*M*	*<2*	*<.004*	*E.1*	*<.5*	*<.002*
	08-27-01	<2	<1	<5	<1	<1	<1	<2	<.004	<.5	<.5	<.002
391100119465101	11-15-01	<2	<1	<5	<1	<1	<1	<2	<.004	<.5	<.5	<.002
391105119481101	01-30-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-28-01	--	--	--	--	--	--	--	<.004	--	--	<.002
391105119481102	01-30-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-27-01	--	--	--	--	--	--	--	<.004	--	--	<.002
391111119481901	01-31-01	--	--	--	--	--	--	--	<.004	--	--	<.002
	08-28-01	<2	<1	<5	<1	<1	<1	<2	<.004	<.5	<.5	<.002
393559119431902	11-14-01	--	--	--	--	--	--	--	<.004	--	--	<.002
393713119430001	11-08-01	*<2*	*<1*	*<5*	*<1*	*<1*	*<1*	*<2*	*<.004*	*E.1*	*<.5*	*<.002*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

Station number	Date	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ANTHRA-CENE DISSOLV (UG/L) (34221)	ANTHRA-QUINONE WATER, FLTERD REC (UG/L) (62066)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENZO-A-PYRENE DISSOLV (UG/L) (34248)	BENZO-PHENONE WATER, FLTERD REC (UG/L) (62067)	BETA-SITOS-TEROL, WATER, FLTERD REC (UG/L) (62068)	BISPHE-NOL A, WATER, FLTERD REC (UG/L) (62069)	[a] BISPHEN OL A-D3 SURRGTE S2033/ 8033 WAT FLT PERCENT (99583)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)
390943119474801	02-01-01	<.005	--	--	E.003	<.010	--	--	--	--	--	--
	08-29-01	<.005	<.5	<.5	E.003	<.010	<.5	<.5	<2	M	87.6	<.5
390949119475501	02-02-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	08-29-01	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	<1	52.4	<.5
391007119471102	02-01-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	09-07-01	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	<1	77.3	<.5
391030119480701	01-29-01	*<.005*	--	--	*<.007*	*<.010*	--	--	--	--	--	--
	01-29-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	08-27-01	*<.005*	*<.5*	*<.5*	*<.007*	*<.010*	*<.5*	*<.5*	*<2*	*M*	*31.5*	*<.5*
	08-27-01	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	M	83.5	<.5
391100119465101	11-15-01	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	<1	60.1	<.5
391105119481101	01-30-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	08-28-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
391105119481102	01-30-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	08-27-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
391111119481901	01-31-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
	08-28-01	<.005	<.5	<.5	<.007	<.010	<.5	<.5	<2	M	80.9	<.5
393559119431902	11-14-01	<.005	--	--	<.007	<.010	--	--	--	--	--	--
393713119430001	11-08-01	*<.005*	*<.5*	*<.5*	*<.007*	*<.010*	*E.3*	*<.5*	*<2*	*M*	*87.4*	*<.5*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	BROMO-FORM DISSOLV (UG/L) (34288)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)	[a]CAFFE-INE-C13 SURRGTE S2033/ 8033 WAT FLT PERCENT (99584)	CAMPHOR WATER, FLTERD REC (UG/L) (62070)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBA-ZOLE, WATER, FLTERD REC (UG/L) (62071)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CHOLES-TEROL, WATER, FLTERD REC (UG/L) (62072)	COT-ININE, WATER, FLTERD REC (UG/L) (62005)
390943119474801	02-01-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-29-01	<.5	<.002	M	111	<.5	<1	<.5	<.020	<.5	<2	<1
390949119475501	02-02-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-29-01	<.5	<.002	<.5	57.2	<.5	<1	<.5	<.020	<.5	<2	<1
391007119471102	02-01-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	09-07-01	<.5	<.002	<.5	112	<.5	<1	<.5	<.020	<.5	<2	<1
391030119480701	01-29-01	--	*<.002*	--	--	--	*<.041*	--	*<.020*	*<.005*	--	--
	01-29-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-27-01	*<.5*	*<.002*	*E.1*	*65.3*	*<.5*	*<1*	*<.5*	*<.020*	*<.5*	*M*	*<1*
	08-27-01	<.5	<.002	<.5	91.6	<.5	<1	<.5	<.020	<.5	<2	<1
391100119465101	11-15-01	<.5	<.002	<.5	111	<.5	<1	<.5	<.020	<.5	<2	<1
391105119481101	01-30-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-28-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
391105119481102	01-30-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-27-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
391111119481901	01-31-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
	08-28-01	<.5	<.002	<.5	110	<.5	<1	<.5	<.020	<.5	<2	<1
393559119431902	11-14-01	--	<.002	--	--	--	<.041	--	<.020	<.005	--	--
393713119430001	11-08-01	*<.5*	*<.002*	*<.5*	*135*	*<.5*	*<1*	*<.5*	*<.020*	*<.5*	*E1*	*<1*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

Station number	Date	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	[a]DCFLBI-PHENYL, SURRGTE S2033/ 8033 WAT FLT PERCENT (99585)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	[a]DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	D-LIMO-NENE, WATER, FLTERD REC (UG/L) (62073)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)
390943119474801	02-01-01	<.018	<.003	--	E.005	107	<.005	<.005	<.02	--	<.002	<.009
	08-29-01	<.018	<.003	93.0	E.002	79.4	<.5	<.005	<.02	<.5	<.002	<.009
390949119475501	02-02-01	<.018	<.003	--	<.006	97.9	<.005	<.005	<.02	--	<.002	<.009
	08-29-01	<.018	<.003	50.5	<.006	99.1	<.5	<.005	<.02	<.5	<.002	<.009
391007119471102	02-01-01	<.018	<.003	--	<.006	106	<.005	<.005	<.02	--	<.002	<.009
	09-07-01	<.018	<.003	78.2	<.006	90.5	<.5	<.005	<.02	<.5	<.002	<.009
391030119480701	01-29-01	*<.018*	*<.003*	--	*<.006*	*122*	*<.005*	*<.005*	*<.02*	--	*<.002*	*<.009*
	01-29-01	<.018	<.003	--	<.006	114	<.005	<.005	<.02	--	<.002	<.009
	08-27-01	*<.018*	*<.003*	*62.6*	*<.006*	*107*	*<.5*	*<.005*	*<.02*	*<.5*	*<.002*	*<.009*
	08-27-01	<.018	<.003	76.7	<.006	86.8	<.5	<.005	<.02	<.5	<.002	<.009
391100119465101	11-15-01	<.018	<.003	129	E.007	119	<.5	<.005	<.02	<.5	<.002	<.009
391105119481101	01-30-01	<.018	<.003	--	<.006	121	<.005	<.005	<.02	--	<.002	<.009
	08-28-01	<.018	<.003	--	<.006	96.3	<.005	<.005	<.02	--	<.002	<.009
391105119481102	01-30-01	<.018	<.003	--	<.006	112	<.005	<.005	<.02	--	<.002	<.009
	08-27-01	<.018	<.003	--	<.006	98.2	<.005	<.005	<.02	--	<.002	<.009
391111119481901	01-31-01	<.018	<.003	--	<.006	121	<.005	<.005	<.02	--	<.002	<.009
	08-28-01	<.018	<.003	90.3	<.006	90.1	<.5	<.005	<.02	<.5	<.002	<.009
393559119431902	11-14-01	<.018	<.003	--	<.006	90.8	<.005	<.005	<.02	--	<.002	<.009
393713119430001	11-08-01	*<.018*	*<.003*	*124*	*<.006*	*91.9*	*<.5*	*<.005*	*<.02*	*<.5*	*<.002*	*<.009*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FLUOR-ANTHENE DISSOLV (UG/L) (34377)	[a] FLUORO-ANTHENE D10 SUR S2033/ 8033 WAT FLT PERCENT (99586)	FONOFOS WATER DISS REC (UG/L) (04095)	[a] HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	HHHMCP-BENZO-PYRAN, WATER, FLTERD REC (UG/L) (62075)	INDOLE, WATER, FLTERD REC (UG/L) (62076)	ISOBOR-NEOL, WATER, FLTERD REC (UG/L) (62077)	ISO-PHORONE DISSOLV (UG/L) (34409)	ISO-PROPYL BENZENE WATER, FLTERD REC (UG/L) (62078)	ISO-QUIN-OLINE, WATER, FLTERD REC (UG/L) (62079)
390943119474801	02-01-01	<.005	--	--	<.003	102	--	--	--	--	--	--
	08-29-01	<.005	<.5	113	<.003	73.5	<.5	<.5	<.5	E.3	<.5	<.5
390949119475501	02-02-01	<.005	--	--	<.003	80.0	--	--	--	--	--	--
	08-29-01	<.005	<.5	58.3	<.003	88.8	<.5	<.5	<.5	<.5	<.5	<.5
391007119471102	02-01-01	<.005	--	--	<.003	100	--	--	--	--	--	--
	09-07-01	<.005	<.5	116	<.003	94.3	<.5	<.5	<.5	<.5	<.5	<.5
391030119480701	01-29-01	*<.005*	--	--	*<.003*	*114*	--	--	--	--	--	--
	01-29-01	<.005	--	--	<.003	111	--	--	--	--	--	--
	08-27-01	*<.005*	*<.5*	*63.5*	*<.003*	*87.4*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*
	08-27-01	<.005	<.5	92.9	<.003	82.3	<.5	<.5	<.5	E.4	<.5	<.5
391100119465101	11-15-01	<.005	<.5	138	<.003	91.7	<.5	<.5	<.5	<.5	<.5	<.5
391105119481101	01-30-01	<.005	--	--	<.003	116	--	--	--	--	--	--
	08-28-01	<.005	--	--	<.003	87.3	--	--	--	--	--	--
391105119481102	01-30-01	<.005	--	--	<.003	110	--	--	--	--	--	--
	08-27-01	<.005	--	--	<.003	85.6	--	--	--	--	--	--
391111119481901	01-31-01	<.005	--	--	<.003	109	--	--	--	--	--	--
	08-28-01	<.005	<.5	112	<.003	77.8	<.5	<.5	<.5	.5	<.5	<.5
393559119431902	11-14-01	<.005	--	--	<.003	88.1	--	--	--	--	--	--
393713119430001	11-08-01	*<.005*	*M*	*142*	*<.003*	*86.6*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*	*<.5*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

Station number	Date	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	MENTHOL WATER, FLTERD REC (UG/L) (62080)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METHYL SALICY-LATE, WATER, FLTERD REC (UG/L) (62081)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L) (38260)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)
390943119474801	02-01-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-29-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	.02	<.5	<.006
390949119475501	02-02-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-29-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	<.02	<.5	<.006
391007119471102	02-01-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	09-07-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	<.02	<.5	<.006
391030119480701	01-29-01	*<.004*	*<.035*	*<.027*	--	--	*<.050*	*<.006*	--	*.02*	*<.013*	*<.006*
	01-29-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-27-01	*<.004*	*<.035*	*<.027*	*<.5*	*<.5*	*<.050*	*<.006*	*<.5*	*.08*	*<.5*	*<.006*
	08-27-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	<.02	<.5	<.006
391100119465101	11-15-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	--	<.5	<.006
391105119481101	01-30-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-28-01	<.004	<.035	<.027	--	--	<.050	<.006	--	.02	<.013	<.006
391105119481102	01-30-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-27-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
391111119481901	01-31-01	<.004	<.035	<.027	--	--	<.050	<.006	--	<.02	<.013	<.006
	08-28-01	<.004	<.035	<.027	<.5	<.5	<.050	<.006	<.5	<.02	<.5	<.006
393559119431902	11-14-01	<.004	<.035	<.027	--	--	<.050	<.006	--	--	<.013	<.006
393713119430001	11-08-01	*<.004*	*<.035*	*<.027*	*<.5*	*<.5*	*<.050*	*<.006*	*<.5*	--	*<.5*	*<.006*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	DEET, WATER, FLTERD REC (UG/L) (62082)	NAPHTHALENE DISSOLV (UG/L) (34443)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NONYLPHENOL, DIETHOX WATER, FLTERD REC (UG/L) (62083)	DIETHOXYOCTYLPHENOL WAT FLT REC (UG/L) (61705)	MONOETHOXYOCTYLPHENOL WAT FLT REC (UG/L) (61706)	P,P' DDE DISSOLV (UG/L) (34653)	PARACRESOL, WATER, FLTERD REC (UG/L) (62084)	PARANONYLPHENOL, WATER, FLTERD REC (UG/L) (62085)	PARATHION, DISSOLVED (UG/L) (39542)
390943119474801	02-01-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-29-01	<.002	<.5	<.5	<.007	<5	<1	<1	<.003	<1	M	<.007
390949119475501	02-02-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-29-01	<.002	M	<.5	<.007	<5	<1	<1	<.003	<1	<5	<.007
391007119471102	02-01-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	09-07-01	<.002	<.5	<.5	<.007	<5	<1	<1	<.003	<1	<5	<.007
391030119480701	01-29-01	*<.002*	--	--	*<.007*	--	--	--	*<.003*	--	--	*<.007*
	01-29-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-27-01	*<.002*	*M*	*<.5*	*<.007*	*E2*	*<1*	*<1*	*<.003*	*<1*	*E2*	*<.007*
	08-27-01	<.002	<.5	<.5	<.007	<5	<1	<1	<.003	<1	<5	<.007
391100119465101	11-15-01	<.002	<.5	<.5	<.007	<5	<1	<1	<.003	<1	<5	<.007
391105119481101	01-30-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-28-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
391105119481102	01-30-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-27-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
391111119481901	01-31-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
	08-28-01	<.002	<.5	<.5	<.007	<5	<1	<1	<.003	<1	M	<.007
393559119431902	11-14-01	<.002	--	--	<.007	--	--	--	<.003	--	--	<.007
393713119430001	11-08-01	*<.002*	*M*	*<.5*	*<.007*	*E3*	*<1*	*<1*	*<.003*	*<1*	*E3*	*<.007*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

Station number	Date	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PENTACHLOROPHENOL DISSOLV (UG/L) (34459)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHENANTHRENE DISSOLV(UG/L) (34462)	PHENOL WATER FILTRD (UG/L) (34466)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PROMETON, WATER, DISS, REC (UG/L) (04037)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)
390943119474801	02-01-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-29-01	<.002	<.010	<2	<.006	<.5	1.5	<.011	<.5	<.004	<.010	<.011
390949119475501	02-02-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-29-01	<.002	<.010	<2	<.006	<.5	.7	<.011	<.5	<.004	<.010	<.011
391007119471102	02-01-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	09-07-01	<.002	<.010	<2	<.006	<.5	E.3	<.011	<.5	<.004	<.010	<.011
391030119480701	01-29-01	*<.002*	*<.010*	--	*<.006*	--	--	*<.011*	*<.01*	*<.004*	*<.010*	*<.011*
	01-29-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-27-01	*<.002*	*<.010*	*<2*	*<.006*	*<.5*	*.7*	*<.011*	*<.5*	*<.004*	*<.010*	*<.011*
	08-27-01	<.002	<.010	<2	<.006	<.5	.7	<.011	<.5	<.004	<.010	<.011
391100119465101	11-15-01	<.002	<.010	<2	<.006	<.5	<.5	<.011	<.5	<.004	<.010	<.011
391105119481101	01-30-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-28-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
391105119481102	01-30-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-27-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
391111119481901	01-31-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
	08-28-01	<.002	<.010	<2	<.006	<.5	E.2	<.011	<.5	<.004	<.010	<.011
393559119431902	11-14-01	<.002	<.010	--	<.006	--	--	<.011	<.01	<.004	<.010	<.011
393713119430001	11-08-01	*<.002*	*<.010*	*<2*	*<.006*	*<.5*	*.5*	*<.011*	*<.5*	*<.004*	*<.010*	*<.011*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PYRENE DISSOLV (UG/L) (34470)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	STIGMA-STANOL, WATER, FLTERD REC (UG/L) (62086)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TETRA-CHLORO-ETHY-LENE DISSOLV (UG/L) (34476)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	FYROL CEF, WATER, FLTERD REC (UG/L) (62087)	FYROL PCF, WATER, FLTERD REC (UG/L) (62088)
390943119474801	02-01-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-29-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5
390949119475501	02-02-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-29-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5
391007119471102	02-01-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	09-07-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5
391030119480701	01-29-01	*<.02*	--	*<.011*	--	*<.02*	*<.034*	*<.02*	--	*<.005*	--	--
	01-29-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-27-01	*<.02*	*<.5*	*<.011*	*<2*	*<.02*	*<.034*	*<.02*	*<.5*	*<.005*	*M*	*<.5*
	08-27-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5
391100119465101	11-15-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	<.5	<.5
391105119481101	01-30-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-28-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
391105119481102	01-30-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-27-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
391111119481901	01-31-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
	08-28-01	<.02	<.5	<.011	<2	<.02	<.034	<.02	<.5	<.005	E.1	<.5
393559119431902	11-14-01	<.02	--	<.011	--	<.02	<.034	<.02	--	<.005	--	--
393713119430001	11-08-01	*<.02*	*M*	*<.011*	*<2*	*<.02*	*<.034*	*<.02*	*<.5*	*<.005*	*<.5*	*<.5*
	11-13-01	--	--	--	--	--	--	--	--	--	--	--

Station number	Date	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIBUTL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62089)	TRICLO-SAN, WATER, FLTERD REC (UG/L) (62090)	TRI-ETHYL CITRATE WATER, FLTERD REC (UG/L) (62091)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	TRIPHNL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62092)	TRIS(2-BUTOXE_ PHOS-PHATE, WATER, FLTERD (UG/L) (62093)	DICHLOR VOS, WATER FLTRD REC (UG/L) (38775)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	RADON 222, 2X CL, SS MDC, WATER, UNFLTRD (PCI/L) (99327)	RADON 222 TOTAL (PCI/L) (82303)
390943119474801	02-01-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-29-01	<.002	<.5	<1	<.5	<.009	<.5	<.5	<1.00	--	--	--
390949119475501	02-02-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-29-01	<.002	<.5	<1	<.5	<.009	<.5	<.5	<1.00	--	--	--
391007119471102	02-01-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	09-07-01	<.002	<.5	<1	<.5	<.009	<.5	<.5	<1.00	--	--	--
391030119480701	01-29-01	*<.002*	--	--	--	*<.009*	--	--	--	--	--	--
	01-29-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-27-01	*<.002*	*<.5*	*<1*	*<.5*	*<.009*	*M*	*<.5*	*<1.00*	--	--	--
	08-27-01	<.002	<.5	<1	<.5	<.009	<.5	<.5	<1.00	--	--	--
391100119465101	11-15-01	<.002	<.5	<1	<.5	<.009	<.5	<.5	<1.00	53	27.0	3320
391105119481101	01-30-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-28-01	<.002	--	--	--	<.009	--	--	--	--	--	--
391105119481102	01-30-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-27-01	<.002	--	--	--	<.009	--	--	--	--	--	--
391111119481901	01-31-01	<.002	--	--	--	<.009	--	--	--	--	--	--
	08-28-01	<.002	<.5	<1	<.5	<.009	<.5	E.1	<1.00	--	--	--
393559119431902	11-14-01	<.002	--	--	--	<.009	--	--	--	29	28.0	640
393713119430001	11-08-01	*<.002*	*<.5*	*<1*	*<.5*	*<.009*	*M*	*<.5*	*<1.00*	--	--	--
	11-13-01	--	--	--	--	--	--	--	--	27	23.0	720

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2002

Station number	Date	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	Station number	Date	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
390943119474801	02-01-01	--	391100119465101	11-15-01	7.50
	08-29-01	--	391105119481101	01-30-01	--
390949119475501	02-02-01	--		08-28-01	--
	08-29-01	--	391105119481102	01-30-01	--
391007119471102	02-01-01	--		08-27-01	--
	09-07-01	--	391111119481901	01-31-01	--
391030119480701	01-29-01	--		08-28-01	--
	01-29-01	--	393559119431902	11-14-01	8.68
	08-27-01	--	393713119430001	11-08-01	*<.02*
	08-27-01	--		11-13-01	5.09

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT

Water-quality measurements in the following table were made in cooperation with Churchill County to monitor changes in water-quality to provide data for future studies in the Fallon Basalt Aquifer . Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figure 33.

WATER-QUALITY DATA, WATER YEARS OCTOBER 2000 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
392327118425401	101 N18 E29 27CDAD1 USGS CDR-18	03-01-01	1055	ENVIRONMENTAL	7.70	13.	3920.
		03-20-02	1130	ENVIRONMENTAL	--	13.	3920.
		06-17-02	1245	ENVIRONMENTAL	--	13.	3920.
		06-17-02	1315	ENVIRONMENTAL	--	13.	3920.
393004118514201	101 N19 E28 20ABC 1 MICHELLE WAY	02-28-01	1040	ENVIRONMENTAL	13.51	29.	4002.
		11-20-01	1200	ENVIRONMENTAL	--	29.	4002.
		06-20-02	1200	ENVIRONMENTAL	--	29.	4002.
393006118515101	101 N19 E28 20ABDA1 DAVIS LANE	02-27-01	1140	ENVIRONMENTAL	12.76	24.	4006.
		02-27-01	1255	**DUPLICATE**	--	*24.*	*4006.*
		11-20-01	1000	ENVIRONMENTAL	--	24.	4006.
		06-20-02	1000	ENVIRONMENTAL	--	24.	4006.
392829118520001	101 N19 E28 32BAAB1 USGS CDR-25	02-28-01	1225	ENVIRONMENTAL	9.39	13.	3996.
		03-20-02	0930	ENVIRONMENTAL	--	13.	3996.
		06-17-02	1030	ENVIRONMENTAL	--	13.	3996.
393003118402001	101 N19 E29 24ABDD1	03-02-01	1030	ENVIRONMENTAL	--	12.	3920.
		03-21-02	1300	ENVIRONMENTAL	--	12.	3920.
		06-18-02	1230	ENVIRONMENTAL	--	12.	3920.
393052118333501	101 N19 E30 13ACAA1 USGS CDR-29	03-01-01	1315	ENVIRONMENTAL	--	12.	3900.
		03-21-02	1045	ENVIRONMENTAL	--	12.	3900.
		06-18-02	1045	ENVIRONMENTAL	--	12.	3900.
393458118431101	101 N20 E29 22CBAC1 USGS CDR-30	03-14-01	1100	ENVIRONMENTAL	8.23	12.	3914.02
		06-24-02	1030	ENVIRONMENTAL	--	12.	3914.02

Date	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
03-01-01	660	.8	9	7.8	1510	--	13.5	2.45	3.57	--	--	511	624
03-20-02	--	--	--	--	--	--	--	4.19	5.08	12.0	401	--	--
06-17-02	--	--	--	--	--	--	--	3.43	4.73	10.3	398	--	--
06-17-02	--	--	--	--	--	--	--	3.36	4.81	10.4	407	--	--
02-28-01	660	4.4	52	8.3	313	--	16.5	12.0	2.60	--	--	110	135
11-20-01	--	--	--	--	--	--	--	--	--	6.97	40.0	--	--
06-20-02	--	--	--	--	--	--	--	18.4	5.25	7.12	39.0	--	--
02-27-01	660	2.8	33	9.0	388	10.0	16.1	.56	.054	--	--	144	134
02-27-01	--	--	--	--	--	--	--	*.55*	*.053*	--	--	--	--
11-20-01	--	--	--	--	--	--	--	--	--	3.04	91.4	--	--
06-20-02	--	--	--	--	--	--	--	.63	.067	2.84	94.2	--	--
02-28-01	660	1.8	20	6.9	364	--	13.0	36.0	9.36	--	--	96	117
03-20-02	--	--	--	--	--	--	--	63.6	17.0	5.28	38.5	--	--
06-17-02	--	--	--	--	--	--	--	20.6	5.51	3.40	23.9	--	--
03-02-01	655	1.1	11	7.7	1340	--	9.5	27.6	7.90	--	--	486	593
03-21-02	--	--	--	--	--	--	--	24.2	7.24	10.8	226	--	--
06-18-02	--	--	--	--	--	--	--	28.6	8.51	11.4	231	--	--
03-01-01	--	--	--	7.0	1550	--	12.5	86.8	26.5	--	--	636	776
03-21-02	--	--	--	--	--	--	--	139	41.7	14.2	333	--	--
06-18-02	--	--	--	--	--	--	--	133	39.6	12.6	347	--	--
03-14-01	--	--	--	7.4	13900	17.0	14.0	1150	864	--	--	909	1110
06-24-02	--	--	--	--	--	--	--	197	158	42.9	2830	--	--

WATER-QUALITY DATA, WATER YEARS OCTOBER 2000 TO SEPTEMBER 2002

Date	CARBONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671)
03-01-01	--	--	159	1.3	--	60.4	--	<.04	.29	<.05	<.006	2.10	2.30
03-20-02	--	.46	237	1.2	25.7	96.5	1130	.11	.38	E.03	E.007	2.06	1.99
06-17-02	--	.32	237	1.1	24.9	114	1130	.05	.41	.19	<.008	1.98	2.20
06-17-02	--	.34	237	1.2	25.8	113	1130	.05	.43	<.05	E.004	1.97	2.02
02-28-01	--	--	8.12	.4	--	36.2	--	<.04	E.06	.85	<.006	.35	.39
11-20-01	--	.03	--	--	27.7	--	210	<.04	<.10	.77	<.008	.28	.29
06-20-02	--	.03	13.4	.3	28.4	37.6	216	<.04	E.06	.73	<.008	.27	.27
02-27-01	21	--	8.34	.6	--	35.2	--	<.04	E.07	.21	<.006	1.21	1.27
02-27-01	--	--	8.47	.5	--	34.4	--	<.04	<.10	.21	<.006	1.23	1.27
11-20-01	--	.03	--	--	34.7	--	284	<.04	.11	.27	<.008	.93	1.01
06-20-02	--	E.02	8.96	.4	34.2	34.7	277	<.04	<.10	.24	<.008	1.00	.99
02-28-01	--	--	17.0	.2	--	56.8	--	<.04	.10	1.00	<.006	.121	.12
03-20-02	--	.05	17.5	.2	21.0	60.5	386	<.04	.23	4.67	<.008	.120	.11
06-17-02	--	.03	16.2	.2	20.7	31.1	166	<.04	E.05	.17	<.008	.133	.12
03-02-01	--	--	51.5	.9	--	178	--	<.04	.40	.18	.012	.22	.23
03-21-02	--	.05	45.0	.8	41.6	157	783	<.04	.38	.31	.017	.190	.18
06-18-02	--	E.03	45.8	.7	42.3	154	780	<.04	.37	.20	.012	.169	.17
03-01-01	--	--	73.9	1.2	--	171	--	.19	.90	<.05	<.006	.66	.56
03-21-02	--	.34	128	1.3	37.3	358	1560	.13	.93	<.05	<.008	.64	.62
06-18-02	--	.22	136	1.3	35.8	339	1570	.13	.95	<.05	<.008	.86	.14
03-14-01	--	--	1790	1.5	--	4630	--	.16	1.5	<.05	<.006	.35	.56
06-24-02	--	2.27	1670	1.5	58.0	4630	10800	.30	E1.7	E.03	<.008	.32	.45

Date	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	1,4-DICHLOROBENZENE DISSOLV (UG/L) (34572)	1METHYL NAPHTHALENE WATER, FLTERD REC (UG/L) (62054)	26DIMET NAPHTHALENE WATER, FLTERD REC (UG/L) (62055)	2METHYL NAPHTHALENE WATER, FLTERD REC (UG/L) (62056)	3-BETA-COPROSTANOL, WATER, FLTERD REC (UG/L) (62057)	3METHYL 1(H)-INDOLE, WATER, FLTERD REC (UG/L) (62058)	3-TERT-BHA, WATER, FLTERD REC (UG/L) (62059)	4-CUMYL PHENOL, WATER, FLTERD REC (UG/L) (62060)	4-OCTYL PHENOL, WATER, FLTERD REC (UG/L) (62061)
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	135	--	<10	50.4	--	--	--	--	--	--	--	--	--
06-17-02	--	--	31	42.0	--	--	--	--	--	--	--	--	--
06-17-02	--	--	31	42.5	--	--	--	--	--	--	--	--	--
02-28-01	94	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	--	240	<10	<2.0	<.5	<.5	<.5	<.5	<2	<1	<5	<1	<1
06-20-02	65.1	300	<10	<2.0	M	<.5	<.5	<.5	<2	<1	<5	<1	<1
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	--	330	E6	<2.0	M	<.5	<.5	<.5	<2	<1	<5	<1	<1
06-20-02	108	340	13	<2.0	M	<.5	<.5	<.5	<2	<1	<5	<1	<1
02-28-01	9	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	7	--	<10	<2.0	--	--	--	--	--	--	--	--	--
06-17-02	--	--	<10	<2.0	--	--	--	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	50	--	<10	18.5	--	--	--	--	--	--	--	--	--
06-18-02	--	--	<10	31.5	--	--	--	--	--	--	--	--	--
03-01-01	68	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	53	--	1440	1020	--	--	--	--	--	--	--	--	--
06-18-02	--	--	1700	922	--	--	--	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--	--	--	--	--	--	--	--
06-24-02	--	--	111	1650	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS OCTOBER 2000 TO SEPTEMBER 2002

Date	4-TERT-OCTYL-PHENOL, WATER, FLTERD REC (UG/L) (62062)	5METHYL 1HBENZO TRIAZLE WATER, FLTERD REC (UG/L) (62063)	ACETO-PHENONE WATER, FLTERD REC (UG/L) (62064)	AHT NAPH-THALENE WATER, FLTERD REC (UG/L) (62065)	ANTHRA-CENE DISSOLV (UG/L) (34221)	ANTHRA-QUINONE WATER, FLTERD REC (UG/L) (62066)	BENZO-A-PYRENE DISSOLV (UG/L) (34248)	BENZO-PHENONE WATER, FLTERD REC (UG/L) (62067)	BETA-SITOS-TEROL, WATER, FLTERD REC (UG/L) (62068)	BISPHE-NOL A, WATER, FLTERD REC (UG/L) (62069)	[a]BISPHEN OL A-D3 SURRGTE S2033/ 8033 WAT FLT PERCENT (99583)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BROMO-FORM DISSOLV (UG/L) (34288)
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	M	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2	<1	93.2	<.5	<.5
06-20-02	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2	<1	34.2	<.5	<.5
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2	<1	88.3	<.5	<.5
06-20-02	<1	<2	<.5	<.5	<.5	<.5	<.5	<.5	<2	<1	23.2	<.5	<.5
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--	--	--	--	--	--	--	--
06-24-02	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	CAF-FEINE, WATER FLTRD REC (UG/L) (50305)	[a]CAFFE-INE-C13 SURRGTE S2033/ 8033 WAT FLT PERCENT (99584)	CAMPHOR WATER, FLTERD REC (UG/L) (62070)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBA-ZOLE, WATER, FLTERD REC (UG/L) (62071)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CHOLES-TEROL, WATER, FLTERD REC (UG/L) (62072)	COT-ININE, WATER, FLTERD REC (UG/L) (62005)	[a]DCFLBI-PHENYL, SURRGTE S2033/ 8033 WAT FLT PERCENT (99585)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	D-LIMO-NENE, WATER, FLTERD REC (UG/L) (62073)	FLUOR-ANTHENE DISSOLV (UG/L) (34377)	[a]FLUORO-ANTHENE D10 SUR S2033/ 8033 WAT FLT PERCENT (99586)
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<.5	110	<.5	<1	<.5	<.5	<2	<1	107	<.5	<.5	<.5	139
06-20-02	<.5	73.2	<.5	<1	<.5	<.5	<2	<1	11.7	<.5	<.5	<.5	75.8
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<.5	108	<.5	<1	<.5	<.5	<2	<1	106	<.5	<.5	<.5	146
06-20-02	<.5	75.0	<.5	<1	<.5	<.5	<2	<1	13.0	<.5	<.5	<.5	75.4
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--	--	--	--	--	--	--	--
06-24-02	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS OCTOBER 2000 TO SEPTEMBER 2002

Date	HHHMCP-BENZO-PYRAN, WATER, FLTERD REC (UG/L) (62075)	INDOLE, WATER, FLTERD REC (UG/L) (62076)	ISOBOR-NEOL, WATER, FLTERD REC (UG/L) (62077)	ISO-PHORONE DISSOLV (UG/L) (34409)	ISO-PROPYL BENZENE WATER, FLTERD REC (UG/L) (62078)	ISO-QUIN-OLINE, WATER, FLTERD REC (UG/L) (62079)	MENTHOL WATER, FLTERD REC (UG/L) (62080)	METAL-AXYL WATER FLTRD REC (UG/L) (50359)	METHYL SALICY-LATE, WATER, FLTERD REC (UG/L) (62081)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	DEET, WATER, FLTERD REC (UG/L) (62082)	NAPHTH-ALENE DISSOLV (UG/L) (34443)	NONYL-PHENOL, DIETHOX WATER, FLTERD REC (UG/L) (62083)
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	E.1	<.5	<5
06-20-02	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<.5	<5
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<5
06-20-02	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	M	<.5	<5
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--	--	--	--	--	--	--	--
06-24-02	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	DI-ETHOXY-OCTYL-PHENOL WAT FLT REC (UG/L) (61705)	MONO-ETHOXY-OCTYL-PHENOL WAT FLT REC (UG/L) (61706)	PARA-CRESOL, WATER, FLTERD REC (UG/L) (62084)	PARA-NONYL-PHENOL, WATER, FLTERD REC (UG/L) (62085)	PENTA-CHLORO-PHENOL DISSOLV (UG/L) (34459)	PHENAN-THREN EDISSOLV (UG/L) (34462)	PHENOL WATER FILTRD (UG/L) (34466)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PYRENE DISSOLV (UG/L) (34470)	STIGMA-STANOL, WATER, FLTERD REC (UG/L) (62086)	TETRA-CHLORO-ETHY-LENE DISSOLV (UG/L) (34476)	FYROL CEF, WATER, FLTERD REC (UG/L) (62087)	FYROL PCF, WATER, FLTERD REC (UG/L) (62088)
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<1	<1	<1	<5	<2	<.5	<.5	<.5	<.5	<2	<.5	<.5	<.5
06-20-02	<1	<1	<1	<5	<2	<.5	<.5	<.5	<.5	<2	<.5	<.5	<.5
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--	--	--	--	--	--	--	--
11-20-01	<1	<1	<1	<5	<2	<.5	1.5	<.5	<.5	<2	<.5	<.5	<.5
06-20-02	<1	<1	<1	<5	<2	<.5	<.5	<.5	<.5	<2	<.5	<.5	<.5
02-28-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-01-01	--	--	--	--	--	--	--	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--	--	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--	--	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--	--	--	--	--	--	--	--
06-24-02	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEARS OCTOBER 2000 TO SEPTEMBER 2002

Date	TRIBUTL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62089)	TRICLO-SAN, WATER, FLTERD REC (UG/L) (62090)	TRI-ETHYL CITRATE WATER, FLTERD REC (UG/L) (62091)	TRIPHNL PHOS-PHATE, WATER, FLTERD REC (UG/L) (62092)	TRIS(2-BUTOXE_ PHOS-PHATE, WATER, FLTERD (UG/L) (62093)	DICHLOR VOS, WATER FLTRD REC (UG/L) (38775)
03-01-01	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--
02-28-01	--	--	--	--	--	--
11-20-01	<.5	<1	<.5	<.5	<.5	<1.00
06-20-02	<.5	<1	<.5	<.5	<.5	<1.00
02-27-01	--	--	--	--	--	--
02-27-01	--	--	--	--	--	--
11-20-01	<.5	<1	<.5	<.5	<.5	<1.00
06-20-02	<.5	<1	<.5	<.5	<.5	<1.00
02-28-01	--	--	--	--	--	--
03-20-02	--	--	--	--	--	--
06-17-02	--	--	--	--	--	--
03-02-01	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--
03-01-01	--	--	--	--	--	--
03-21-02	--	--	--	--	--	--
06-18-02	--	--	--	--	--	--
03-14-01	--	--	--	--	--	--
06-24-02	--	--	--	--	--	--

Remark codes used in this report:
< -- Less than
E -- Estimated value
M -- Presence verified, not quantified

[a] Listed values are recovery percentages for the indicated compounds. These compounds are added to the sample to determine the relative recovery of other organic compounds that are detected using the same analytical method.

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT

Water-level data were collected in the Fallon area as part of a cooperative study with Churchill County. The purpose of the study is to provide data for future studies in the area and determine the hydrologic response to changes in seasonal recharge and to changes in water use.

Water Levels--Levels above LSD are listed as negative values.
Water Level Status--D, Site was dry (no water level was recorded); O, obstruction was encountered in the well (no water level was recorded); X, water level was affected by stage in nearby surface-water site.
Water Level Method--S, steel tape; T, electric tape.
The following sites are shown in figure 33.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
101 N16 E28 01AAAA2	391705118465402	27.	3910.95	12/27/2001	23.85		S
				03/21/2002	23.86		S
				06/24/2002	24.23		S
				09/25/2002	24.98		S
101 N16 E29 01ABBB1	391706118403801	30.	3907.	09/25/2002	11.18		S
101 N16 E30 09CDAA1	391532118371601	27.	3943.	09/25/2002	22.42		S
101 N17 E28 13DAA 1	392008118465501	17.	3918.04	10/18/2001	8.42		S
				11/20/2001	8.18		S
				12/27/2001	8.25		S
				01/18/2002	8.38		S
				02/25/2002	8.47		S
				03/21/2002	8.37		S
				04/11/2002	8.39		S
				05/03/2002	8.29		S
				06/24/2002	8.49		S
				08/26/2002	8.86		S
101 N17 E29 05BCAA1	392208118452701	28.	3927.67	12/27/2001	7.2		T
				03/21/2002	7.71		S
				06/24/2002	5.70		S
				09/25/2002	6.60		S
101 N17 E29 12BBBB1	392132118411001	50.	3910.27	12/27/2001	2.06		S
				03/21/2002	1.44		S
				06/24/2002	0.82		S
				09/25/2002	2.40		S
				12/27/2001	2.07		S
				03/21/2002	1.49		S
				06/24/2002	0.78		S
				09/25/2002	2.52		S
101 N17 E29 19DDCC1	391853118455801	23.	3908.	12/28/2001	6.45		S
				03/21/2002	7.1		T
				06/24/2002	7.16		S
				09/25/2002	7.44		S
101 N17 E30 20CDCC1	391857118383801	24.	3913.	09/25/2002	13.34		S
101 N18 E28 02BABB1	392735118484501	27.	3970.	12/27/2001	7.45		S
				03/21/2002	7.81		S
				06/24/2002	6.25		S
				09/25/2002	6.44		S
101 N18 E28 08DACB1	392609118513401	29.	3972.	12/27/2001	7.45		S
				03/21/2002	7.77		S
				06/24/2002	7.19		S
				09/25/2002	7.35		S
101 N18 E28 12ABAC1	392642118470901	15.	3960.	10/18/2001	7.47		S
				11/20/2001	7.2		T
				12/27/2001	7.79		S
				01/18/2002	7.87		S
				02/25/2002	8.04		S
				03/21/2002	8.11		S
				04/11/2002	8.14		S
				05/03/2002	7.43		S
				06/24/2002	7.19		S
				08/26/2002	7.1		T
				09/27/2002	7.2		T

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
101 N18 E29 18AADD1	392540118454501	23.	3951.17	12/28/2001	8.40		S
				03/21/2002	8.81		S
				06/24/2002	6.04		S
				09/25/2002	7.11		S
101 N18 E29 21BCCB1	392439118443401	30.	3934.	10/18/2001	7.67		S
				11/20/2001	7.3		T
				12/27/2001	8.15		S
				01/18/2002	8.27		S
				02/25/2002	8.46		S
				03/21/2002	8.57		S
				04/11/2002	7.93		S
				05/03/2002	7.48		S
				06/24/2002	6.46		S
				08/26/2002		O	
				09/27/2002	6.95		S
101 N18 E29 27CDAD1	392327118425401	13.	3920.	10/18/2001	7.25		S
				11/20/2001	7.2		T
				12/27/2001	7.22		S
				01/18/2002	7.29		S
				02/25/2002	7.34		S
				03/21/2002	7.27		S
				04/11/2002	7.25		S
				05/03/2002	7.28		S
				06/24/2002	7.06		S
				08/29/2002	7.49		S
				09/27/2002	7.6		T
101 N18 E29 35ABCB1	392309118414601	32.	3917.	10/18/2001	10.75		S
				11/20/2001	10.40		S
				12/27/2001	10.20		S
				01/18/2002	10.16		S
				02/25/2002	10.14		S
				03/21/2002		O	
				04/11/2002	10.22		S
				05/03/2002	10.40		S
				06/24/2002	11.31		S
				08/26/2002	12.75		S
101 N18 E29 35ABCC1	392305118414601	128.	3917.	10/18/2001	-1.15		S
				11/20/2001	-1.22		S
				12/27/2001	-1.29		S
				01/18/2002	-1.36		S
				02/25/2002	-1.37		S
				03/21/2002	-1.36		S
				04/11/2002	-1.31		S
				05/03/2002	-1.31		S
				06/24/2002	-1.28		S
				08/26/2002	-1.17		S
				09/27/2002	-0.96		S
101 N18 E30 07CDDC1	392558118393701	24.	3923.	09/25/2002	8.8		T
101 N18 E30 09CDCC1	392554118373001	111.	3931.	09/25/2002	6.0		T
101 N18 E30 30ABBA1	392407118392301	24.	3925.	09/25/2002	12.3		T
101 N18 E30 30DDDC1	392316118390001	30.	3926.	09/25/2002	9.9		T
101 N19 E27 09CCCC1	393106118580301	21.	4019.	12/28/2001	9.8		T
				03/22/2002	9.49		S
				06/25/2002	10.30		S
				09/26/2002	10.0		T
101 N19 E27 11DCAC1	393120118545501	24.	4020.56	12/28/2001	22.0		T
				03/22/2002		D	
				09/26/2002	22.4		T

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
101 N19 E27 13CCB 1	393023118544101	143.	4013.58	10/18/2001	26.91		S
				11/20/2001	26.24		S
				12/27/2001	26.00		S
				01/18/2002	26.02		S
				02/25/2002	26.16		S
				03/22/2002	26.24		S
				04/11/2002	26.50		S
				05/03/2002	26.61		S
101 N19 E27 13CCB 1	393023118544101	143.	4013.58	06/25/2002	27.07		S
				08/29/2002	27.29		S
101 N19 E27 13CCBB3	393023118544103	28.	4013.6	10/18/2001	11.48		S
				11/20/2001	12.1		T
				12/28/2001	12.8		T
				01/18/2002	13.16		S
				02/25/2002	13.82		S
				03/22/2002	14.24		S
				04/11/2002	14.52		S
				05/03/2002	13.25		S
				06/25/2002	11.96		S
				08/29/2002	11.7		T
101 N19 E27 15ADDA1	393043118555101	21.	4021.73	12/28/2001		D	
				03/22/2002		D	
				06/25/2002		D	
				09/26/2002		D	
101 N19 E27 22DBAB1	392948118561101	13.	4022.	12/27/2001	11.25		S
				03/21/2002	12.3		T
				06/24/2002	10.58		S
				09/25/2002	9.92		S
101 N19 E27 36DDCD1	392828118534901	26.	3998.	12/27/2001	16.1		T
				03/21/2002	15.91		S
				06/24/2002	16.32		S
				09/25/2002	16.76		S
101 N19 E28 07BCBB1	393142118533201	26.	4015.22	12/28/2001	21.3		T
				03/22/2002	21.32		S
				06/25/2002	21.32		S
				09/26/2002	21.3		T
101 N19 E28 11ABB 1	393155118483001	97.	3982.11	09/26/2002	29.8		T
101 N19 E28 11ABB 2	393155118483002	35.	3982.11	09/26/2002	31.2		T
101 N19 E28 17DAAC1	393038118512201	14.	4001.52	10/18/2001	8.27		S
				11/20/2001	7.9		T
				12/27/2001	9.1		T
				01/18/2002	9.46		S
				02/25/2002	10.10		S
				03/22/2002	10.40		S
				04/11/2002	10.61		S
				05/03/2002	9.92		S
				06/25/2002	9.06		S
				08/24/2002	7.76		S
101 N19 E28 19CCCB1	392926118533001	18.	4000.	10/18/2001	7.53		S
				11/20/2001	7.5		T
				12/27/2001	7.72		S
				01/18/2002	7.84		S
				02/25/2002	8.10		S
				03/21/2002	8.28		S
				04/11/2002	8.42		S
				05/03/2002	8.27		S
				06/24/2002	7.75		S
				08/26/2002	7.17		S
				09/27/2002	6.7		T

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
101 N19 E28 20ABC 1	393004118514201	29.	4002.	10/18/2001	13.43		S
				11/20/2001	13.9		T
				12/28/2001	14.1		T
				01/18/2002	14.13		S
				02/25/2002	14.29		S
				03/22/2002	14.40		S
				04/11/2002	14.37		S
				05/03/2002	14.44		S
				06/25/2002	14.26		S
				08/29/2002	14.08		S
101 N19 E28 20ABDA1	393006118515101	24.	4006.	10/18/2001	13.69		S
				11/20/2001	13.4		T
				12/28/2001	13.5		T
				01/18/2002	13.54		S
				02/25/2002	13.71		S
				03/22/2002	13.84		S
				04/11/2002	13.95		S
				05/03/2002	14.09		S
				06/25/2002	14.21		S
				08/29/2002	13.96		S
101 N19 E28 23DCCA1	392925118482001	30.	3975.	10/18/2001	14.38		S
				11/20/2001	14.4		T
				12/28/2001	14.9		T
				01/18/2002	15.0		T
				02/25/2002	15.2		T
				03/22/2002	15.36		S
				04/11/2002	15.4		T
				05/03/2002	14.43		S
				06/25/2002	14.62		S
				08/29/2002	14.05		S
101 N19 E28 32BAAB1	392829118520001	13.	3996.	10/18/2001	8.12		S
				11/20/2001	8.1		T
				12/27/2001	9.10		S
				01/18/2002	9.44		S
				02/25/2002	9.85		S
				03/21/2002	10.09		S
				04/11/2002	8.15		S
				05/03/2002	6.87		S
				06/24/2002	6.99		S
				08/26/2002	7.50		S
				09/27/2002	7.6		T
101 N19 E28 34BCAA1	392817118495501	13.	3980.	09/27/2002	3.8		T
101 N19 E29 02BABB1	393252118415901	21.	3927.38	12/28/2001	9.34		S
				03/22/2002	9.83		S
				06/25/2002	9.27		S
				09/26/2002	8.6		T
101 N19 E29 14ACB 2	393049118413501	12.	3931.36	12/28/2001		D	
				03/22/2002		D	
				06/25/2002		D	
				09/26/2002		D	
101 N19 E29 23CCDC1	392924118420901	19.	3937.	12/28/2001	7.58		S
				03/21/2002	8.04		S
				06/25/2002	7.56		S
				09/26/2002	7.7		T
101 N19 E29 24ABDD1	393003118402001	12.	3920.	10/18/2001	5.54		S
				11/26/2001	4.98		S
				12/28/2001	5.29		S
				01/18/2002	5.21		S
				02/25/2002	5.22		S
				03/22/2002	5.10		S
				04/11/2002	5.12		S
				05/03/2002	5.45		S
				06/25/2002	5.84		S

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	(Feet)	Status	Method
				08/26/2002	7.09		S
101 N19 E29 32BCBB1	392816118453901	21.	3955.	12/31/2001	4.6		T
				03/21/2002	4.9		T
				06/24/2002	4.88		S
				09/25/2002	4.4		T
101 N19 E29 33ABAC1	392825118435501	28.	3949.02	12/27/2001	9.3		T
				03/21/2002	10.00		S
				06/24/2002	6.78		S
				09/25/2002	6.93		S
101 N19 E29 35DAA 1	392759118411601	10.	3935.59	12/27/2001	7.8		T
				03/21/2002	7.81		S
				06/24/2002	7.47		S
				09/25/2002	7.03		S
101 N19 E30 04BBBC1	393248118374901	15.	3900.23	09/26/2002	7.7		T
101 N19 E30 08BAAA1	393200118382601	9.	3907.	09/26/2002	3.3		T
101 N19 E30 10CDDA1	393114118361001	15.	3904.	12/28/2001	5.57		S
				03/31/2002	5.50		S
				06/25/2002	5.37		S
				09/26/2002	5.3		T
101 N19 E30 10CDDD1	393110118361001	8.	3904.	03/22/2002	6.7		T
				06/24/2002		O	
				09/26/2002	6.7		T
101 N19 E30 13ACAA1	393052118333501	12.	3900.	10/18/2001	0.82		S
				12/27/2001	4.88		S
				01/18/2002	5.12		S
				02/25/2002	5.66		S
				04/11/2002	4.72		S
				05/03/2002	4.56		S
				06/25/2002	2.54		S
				08/26/2002	4.55		S
101 N19 E30 23DBDD2	392938118344301	11.	3908.79	10/18/2001	3.99		S
				11/20/2001	3.64		S
				12/27/2001	4.49		S
				01/18/2002	4.42		S
				02/25/2002	5.1		S
				03/21/2002	5.4		S
				04/11/2002	2.18		S
				05/03/2002	3.75		S
				06/25/2002	4.02		S
				08/26/2002	3.86		S
				09/27/2002	3.4		T
101 N19 E30 33ABAB2	392828118370702	18.	3917.36	12/27/2001	7.66		S
				03/21/2002	8.67		S
				06/25/2002	8.58		S
				09/27/2002	8.8		T
101 N19 E30 33ADD 1	392758118365101	11.	3914.84	09/27/2002	8.7		T
				10/18/2001	9.36		S
				11/20/2001	9.32		S
				12/27/2001	9.30		S
				01/18/2002	9.35		S
				02/25/2002	9.33		S
				03/21/2002	9.20		S
				04/11/2002	9.16		S
				05/03/2002	9.07		S
				06/25/2002	9.06		S
				08/26/2002	4.43		S
				09/27/2002	9.52		S

NEWLANDS SHALLOW AQUIFER MONITORING PROJECT--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
101 N19 E30 34BAA 2	392828118361202	13.	3914.18	10/18/2001	9.35		S
				11/20/2001	9.31		S
				12/27/2001	9.3		S
				01/18/2002	9.33		S
				02/25/2002	9.33		S
				03/21/2002	9.19		S
				04/11/2002	9.14		S
				05/03/2002	9.06		S
				06/25/2002	9.04		S
				08/26/2002	9.41		S
				09/27/2002	9.51		S
101 N19 E31 11AACA1	393153118275301	81.	3940.	09/26/2002	40.59		S
101 N19 E31 16BBDB1	393106118305301	25.	3897.	12/28/2001	7.5		T
				03/21/2002	6.33		S
				06/25/2002	6.58		S
				09/26/2002	7.4		T
101 N19 E31 16BCAA1	393056118304901	30.	3903.	03/21/2002	6.3		T
				06/25/2002	8.04		S
				09/26/2002	9.7		T
101 N20 E28 21DDDC1	393442118501801	67.	3956.68	09/26/2002	4.7		T
101 N20 E28 21DDDC2	393442118501802	9.	3956.68	09/26/2002	5.5		T
101 N20 E28 22BCA 1	393515118495601	87.	3974.36	09/26/2002	31.04		S
101 N20 E28 22BCA 2	393515118495602	35.	3974.36	09/26/2002	31.43		S
101 N20 E28 32AAD 1	393335118512701	32.	3977.04	09/28/2002	9.9		T
101 N20 E28 32AADA2	393335118512702	22.	3977.04	09/26/2002	9.8		T
101 N20 E28 32CAD 1	393309118515901	128.	3990.37	09/26/2002		D	
101 N20 E29 22CBAC1	393458118431101	12.	3914.02	10/18/2001	9.28		S
				11/20/2001	8.98		S
				12/28/2001	8.8		T
				01/18/2002	8.8		T
				02/25/2002	8.7		T
				03/22/2002	8.6		T
				06/25/2002	9.30		S
101 N20 E30 35DBDD1	393309118344701	27.	3891.	09/26/2002	9.2		T
101 N20 E31 07BDCA1	393651118325701	20.	3884.82	12/28/2001	13.13		S
				03/21/2002	12.59		S
				06/25/2002	13.35		S
				09/26/2002	14.58		T
101 N20 E31 33CACB3	393311118304703	28.	3890.44	06/25/2002	3.90		S
				09/26/2002	1.4	X	T
101 N20 E32 33BBBD1	393341118241401		3936.	09/26/2002	38.58		S
101 N21 E28 24BBA 1	394046118472601	109.	3903.36	09/26/2002	8.9		T
101 N21 E28 24BBA 3	394046118472603	13.	3903.36	09/26/2002	9.7		T

Water-quality measurements in the following table were made in cooperation with the the Nevada Department of Water Resources and the U.S. Fish and Wildlife Service to collect water-quality data in Ruby Valley. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figure 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Station number	Station name	Date	Time	Sample type	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
400119115274801	176 N25 E58 29ABDC2 RV-1 SHALLOW	08-20-02	1300	ENVIRONMENTAL	--	150.	6132.
400119115274802	176 N25 E58 29ABDC3 RV-1 DEEP	08-20-02	1500	ENVIRONMENTAL	--	350.	6132.
400131115254501	176 N25 E58 27BAAA1 RV-2	08-20-02	1500	ENVIRONMENTAL	--	150.	6123.
		08-21-02	1000	ENVIRONMENTAL	--	150.	6123.
400405115314901	176 N25 E57 11BBBC1 FORT RUBY RANCH 1	05-02-02	1400	ENVIRONMENTAL	3.47	120.	6012.
401205115301101	176 N27 E57 24DC 1 Cave Creek Spring	01-11-01	0800	ENVIRONMENTAL	--	--	6042.
		05-01-02	1530	ENVIRONMENTAL	--	--	6042.
401813115255201	176 N28 E58 15CCBB1	04-30-02	0900	ENVIRONMENTAL	20.99	152.	5990.
402343115125801	176 N29 E60 16BDBD1 BASQUE WELL NO 2	04-30-02	1230	ENVIRONMENTAL	--	116.	6028.
403958115121101	176 N32 E60 09DBDA1	05-01-02	1000	ENVIRONMENTAL	--	--	6030.

Date	FLOW RATE (G/M) (00059)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
08-20-02	--	610	6.5	78	7.5	353	25.0	13.0	26.4	14.4	3.71	42.3	124
08-20-02	--	610	3.5	42	7.8	255	24.5	13.0	28.2	10.3	3.96	21.5	126
08-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-21-02	--	610	5.3	61	7.8	343	19.5	11.5	20.2	8.73	5.69	48.4	148
05-02-02	3.5	--	7.2	--	8.0	310	15.0	11.5	31.7	18.5	.87	5.11	155
01-11-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-01-02	--	--	9.6	--	8.1	250	11.0	7.5	36.3	10.5	.36	1.43	141
04-30-02	E20.0	--	2.9	--	8.0	360	10.0	12.5	39.4	15.1	1.68	10.1	168
04-30-02	E8.0	--	6.3	--	8.0	370	12.0	12.0	30.8	7.66	5.32	24.7	109
05-01-02	E8.0	--	3.4	--	7.6	510	8.5	10.5	72.4	7.12	1.48	13.3	224

Date	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)
08-20-02	151	<1	.16	32.0	.2	46.2	25.6	297	291	<.04	.22	5.25	.057
08-20-02	154	<1	.06	10.0	.2	43.3	20.0	220	216	<.04	<.10	.44	.008
08-20-02	--	--	--	--	--	--	--	--	--	--	--	--	--
08-21-02	180	<1	.03	10.1	.3	50.3	42.1	284	278	<.04	E.10	.21	<.008
05-02-02	188	<1	E.02	2.06	<.1	13.4	7.9	177	174	<.04	<.10	.46	<.008
01-11-01	--	--	--	--	--	--	--	--	--	--	--	--	--
05-01-02	172	<1	<.03	1.08	<.1	5.75	2.6	152	144	<.04	<.10	.41	<.008
04-30-02	206	<1	E.02	2.85	E.1	17.6	10.9	202	201	<.04	<.10	.44	<.008
04-30-02	133	<1	.13	25.1	.3	51.1	24.2	251	242	E.02	<.10	1.68	<.008
05-01-02	273	<1	.04	8.93	E.1	26.4	9.7	288	275	<.04	<.10	.37	<.008

Date	ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
08-20-02	.96	22	29.9	-121	-14.98
08-20-02	.20	<10	41.0	-127	-16.28
08-20-02	--	--	--	-127	-16.28
08-21-02	.97	11	26.0	-123	-15.64
05-02-02	<.02	<10	<2.0	-129	-16.99
01-11-01	--	--	--	-122	-16.60
05-01-02	<.02	<10	<2.0	-125	-16.72
04-30-02	<.02	E9	E1.1	-129	-16.95
04-30-02	<.02	E7	<2.0	-137	-17.43
05-01-02	.02	<10	<2.0	-122	-16.34

Remark codes used in this report:
< -- Less than
E -- Estimated value

RUBY VALLEY

Water-level data were collected in the Ruby Valley area, northeast Nevada as part of a cooperative study with the Nevada Division of Water Resources and The U.S. Fish and Wildlife Service. The purpose of the study is to provide an annual water budget for Ruby Valley and to determine the hydrologic response to changes in seasonal recharge.

Water Level Method: S, steel tape; T, electric tape.

The following sites are shown in figure 30.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
				Date	(Feet)	Status	Method
176 N25 E57 11BBBC1	400405115314901	120.	6012.	10/16/2001	3.0		T
				02/05/2002	3.20		S
				05/02/2002	5.3		T
176 N25 E57 14ADBC1	400258115305901		6062.	10/16/2001	25.5		T
				02/05/2002	27.55		S
				05/02/2002	25.7		T
176 N25 E57 14BDDC1	400252115312701	185.	6090.	10/16/2001	58.73		S
				02/05/2002	58.8		T
176 N25 E57 24BABB1	400222115302001	79.	6090.	10/16/2001	39.9		T
				02/05/2002	40.5		T
				05/02/2002	41.0		T
176 N25 E58 03DDBA1	400417115251901		6090.	10/16/2001	86.9		T
				02/04/2002	86.9		T
				05/02/2002	86.8		T
				08/21/2002	86.8		T
176 N25 E58 27BAAA1	400131115254501	150.	6123.	07/14/2002	124.0		T
176 N25 E58 29ABDC2	400119115274801	150.	6132.	07/15/2002	129.2		T
176 N25 E58 29ABDC3	400119115274802	350.	6132.	07/15/2002	130.0		T
176 N26 E58 05ABAA1	401012115272901		5967.	10/16/2001	4.21		S
				02/05/2002	3.25		S
				04/30/2002	2.48		S
				08/21/2002	4.32		S
176 N26 E58 10DDBB1	400838115251101		6004.	10/16/2001	27.7		T
				02/05/2002	27.7		T
				04/30/2002	27.7		T
				08/21/2002	27.8		T
176 N26 E58 16BBAA1	400827115265401		5969.	10/16/2001	10.62		S
				02/05/2002	9.68		S
				06/18/2002	9.38		S
				08/21/2002	10.97		S
176 N27 E58 06BADD1	401515115284901		6120.	10/16/2001	136.1		T
				02/05/2002	136.75		S
				06/19/2002	137.22		S
176 N27 E58 18BCCA1	401323115292801		6050.	06/18/2002	65.12		S
176 N27 E58 28DBDD1	401121115262301	73.	6000.	10/16/2001	26.8		T
				06/19/2002	26.43		S
				08/21/2002	26.82		S
176 N27 E59 02DDBD1	401437115170401		6283.	06/19/2002	121.29		S
176 N27 E59 10ABCD1	401417115182701		6226.	10/16/2001	71.8		T
				02/04/2002	72.25		S
				06/19/2002	71.9		S
				08/22/2002	72.00		S
176 N28 E58 02CADA1	402001115241301	45.	5953.	10/16/2001	7.3		T
				05/15/2002	6.90		S
				08/22/2002	7.4		T
176 N28 E58 14DDCB1	401805115235401	65.	5963.	10/16/2001	3.6		T
				02/05/2002	3.51		S
				04/30/2002	3.2		T
				08/22/2002	4.1		T
176 N28 E58 15CCBB1	401813115255201	152.	5990.	10/16/2001	29.4		T
				02/05/2002	28.85		S
				04/29/2002	28.0		T
				08/22/2002	31.0		T

RUBY VALLEY--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	(Feet)	Status	Method
176 N28 E58 16CBAA1	401827115265601	200.	6010.	10/16/2001	49.6		T
				02/05/2002	48.8		T
				04/30/2002	47.6		T
				08/22/2002	50.8		T
176 N28 E58 22DBDA1	401728115250501	64.	5968.	10/16/2001	6.2		T
				02/05/2002	6.07		S
				06/19/2002	5.86		S
				08/22/2002	6.9		T
176 N28 E59 06CBC 1	402001115214601	180.	5956.	10/16/2001	4.0		T
				02/05/2002	3.52		S
				06/19/2002	3.33		S
				08/22/2002	4.2		T
176 N28 E59 09CDAA1	401900115200001	44.	5994.	10/16/2001	36.6		T
				02/06/2002	37.0		T
				04/30/2002	37.0		T
				08/22/2002	37.0		T
176 N28 E59 17CACA1	401818115210001	72.	6012.	10/16/2001	51.77		S
				02/05/2002	51.87		S
				04/30/2002	51.8		T
				08/22/2002	54.5		T
176 N28 E59 29DDBC1	401623115203101	290.	6094.	10/16/2001	113.0		T
				02/05/2002	113.02		S
				06/19/2002	113.13		S
				08/22/2002	113.1		T
176 N29 E60 16BDBD1	402343115125801	116.	6028.	06/18/2002	91.55		S
176 N29 E61 05BDBD1	402529115071201		6056.	10/17/2001	129.98		S
				02/06/2002	130.04		S
				06/20/2002	130.03		S
				08/22/2002	129.97		S
176 N30 E59 28ABDC1	402724115192101		5959.	10/17/2001	7.2		T
176 N30 E60 03DCB 1	403018115112901	76.	5990.	10/17/2001	35.6		T
176 N31 E59 24ABBC1	403334115155101	33.	5980.	10/17/2001	5.8		T
				06/20/2002	5.94		S
176 N31 E60 04CACD1	403535115123701		5991.	10/17/2001	9.6		T
176 N31 E60 23BCCA1	403316115103501	101.	5987.	10/17/2001	41.6		T
176 N31 E60 28BBBA1	403242115125501		5978.	10/17/2001	11		T
176 N31 E60 31BABB1	403152115150101		5970.	10/17/2001	5.8		T
176 N31 E60 34AABD1	403148115105301		5978.	10/17/2001	36.9		T
176 N31 E61 17CAAB1	403401115064501	207.	6043.	06/19/2002	166.2		T
176 N32 E60 09DBDA1	403958115121101		6030.	05/01/2002	12.7		T
176 N33 E60 21BDCD1	404335115123801		6155.	10/15/2001	13.8		T
176 N33 E60 24DDDA1	404315115082701	200.	6188.	10/17/2001	148.9		T
				02/04/2002	149.19		S
				05/01/2002	149.45		S
176 N33 E61 18CBDC1	404417115081501		6280.	10/17/2001	213.8		T
				05/01/2002	214.4		T
178A N30 E62 18CDCB1	402827115013601		6033.	10/17/2001	77.75		S
				02/06/2002	75.49		S
				02/06/2002	75.47		S
				06/20/2002	75.52		S
				08/22/2002	75.62		S

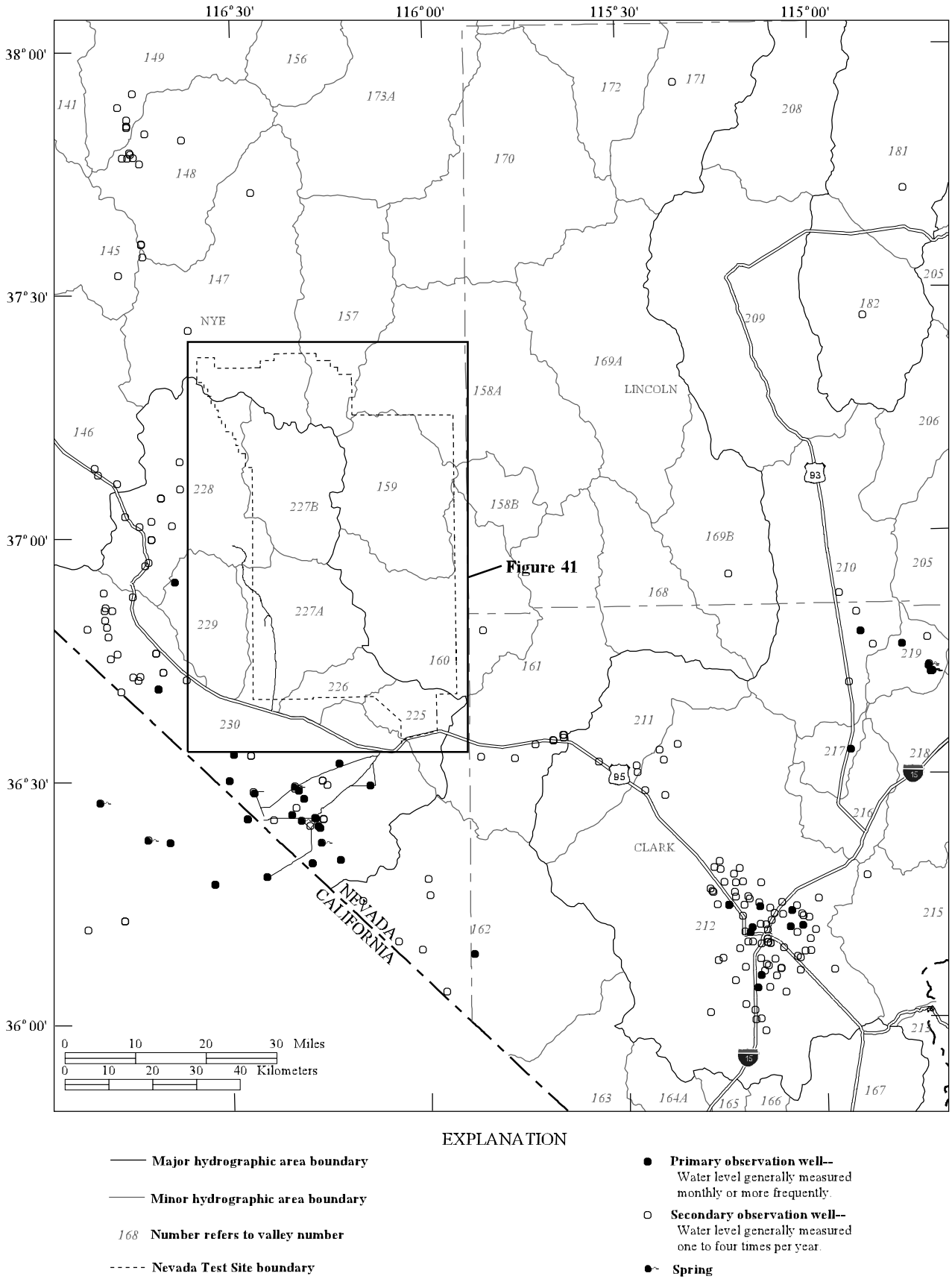


Figure 40. Ground-water sites, southern Nevada.

364556116413501. Local number; 230 S13 E47 35BDBA 1.

LOCATION.--Lat 36°45'56", long 116°41'35". Hydrologic Unit 18090202, in Amargosa Desert, Nye County, Nevada. Owner: U.S. Government.

DATUM (REVISED).--Elevation of land-surface datum is 2,777.4 ft above NGVD of 1929 from level measurements. Measuring point: Top of metal casing, 1.1 ft, south side of well, above land-surface datum.

PERIOD OF RECORD.-- February 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 366.2 ft below land-surface datum, December 1, 1992; lowest measured, 370.9 ft below land-surface datum, January 17, 2001, November 26, 2001.

WATER-LEVEL METHOD: T, electric tape.

DATE	WATER LEVEL (FEET)	METHOD
11/26/01	370.9	T
01/17/02	370.8	T
03/14/02	370.6	T

364556116413701. Local number; 230 S13 E47 35BDBA3.

LOCATION.--Lat 36°45'56", long 116°41'37". Hydrologic Unit 18090202, in Amargosa Desert, Nye County, Nevada. Owner: U.S. Government.

DATUM.--Elevation of land-surface datum is 2,778.58 ft above NGVD of 1929 from level measurements. Measuring point: Top of metal casing, 2.1 ft, notch in casing, west side of well, above land-surface datum.

PERIOD OF RECORD.-- December 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 360.8 ft below land-surface datum, February 11, 2000; lowest measured, 361.5 ft below land-surface datum, November 26, 2001.

WATER-LEVEL METHOD: T, electric tape.

DATE	WATER LEVEL (FEET)	METHOD
11/26/01	361.5	T
01/26/02	361.0	T
05/02/02	361.3	T
08/01/02	361.4	T

SPRING DISCHARGE

CARBONATE ROCK STUDY AREA

Measurement method--C, current meter.
Locations of the following sites are shown in figures 30 and 40.

Spring Number	Site Identification	Spring Name	Land Surface Elevation (Feet)	Measurement		
				Date	Discharge (GPM)	Method
173B N13 E56 32BACD1	385650115421301	Big Warm Spring	5605.	04/23/2002	7810.	C
				09/18/2002	6190.	C
207 N06 E61 18AADA1	382259115090801	NDW - Hot Creek Spring	5225.	04/16/2002	4940.	C
				09/17/2002	4940.	C
207 N07 E62 28ABDC1	382624115004001	Butterfield Spring	5320.	10/02/2001	1330.	C
				04/16/2002	1090.	C
				09/19/2002	1250.	C
207 N07 E62 33BCAB1	382526115011401	Flag Spring 1	5290.	04/16/2002	960.	C
				04/16/2002	970.	C
				09/19/2002	1390.	C
207 N07 E62 33BCCB1	382522115012001	Flag Spring 2	5280.	04/16/2002	1390.	C
				09/16/2002	1250.	C
207 N07 E62 33BCCC1	382517115012001	Flag Spring 3	5290.	04/16/2002	1000.	C
				05/30/2002	890.	C
				09/19/2002	1300.	C
207 N09 E61 32DABC1	383540115081801	Moorman Spring	5295.	04/18/2002	221.	C
207 N12 E61 12DBDD1	385530115044601	Nicholas Spring	5700.	04/17/2002	1270.	C
				09/18/2002	1220.	C
219 S14 E65 21 1	364238114424301	Muddy River Springs 20	1778.	04/22/2002	245.46	C
219 S14 E65 21AAAA1	364238114424201	Muddy River Springs 15	1780.	04/22/2002	722.17	C
219 S14 E65 21AAAA2	364236114424301	Warm Springs East	1790.	04/22/2002	1292.63	C
219 S14 E65 21AAAB2	364238114424401	Muddy River Springs 16	1780.	04/22/2002	160.68	C
219 S14 E65 21AABB1	364235114425201	Muddy River Springs 11	1800.	04/22/2002	527.37	C
219 S14 E65 21AABB3	364236114425401	Muddy River Springs 13	1800.	04/22/2002	435.81	C
219 S14 E65 21AABB4	364237114425401	Muddy River Springs 12	1800.	04/22/2002	172.79	C
219 S14 E65 21AABB5	364235114425301	Muddy River Springs 19	1800.	04/22/2002	426.84	C

HIGH-ELEVATION PRECIPITATION NETWORK

CARBONATE ROCK STUDY AREA

High-elevation precipitation data are collected at sites in eastern and southeastern Nevada. Locations of the following sites are shown in figure 34.

Station Name	Site Identification	Latitude	Longitude	Elevation (feet)	Period	Precipitation (inches)
Cave Mountain	390946114364901	39°09'46"	114°36'49"	10,650	10/02/01 to 06/11/02	9.25
					06/11/02 to 10/31/02	7.50
Cherry Creek Range	400726114524701	40°07'26"	114°52'47"	9,700	10/02/01 to 06/10/02	5.25
					06/10/02 to 10/31/02	3.75
Hayford Peak	363929115115801	36°39'29"	115°11'58"	9,840	10/02/01 to 06/19/02	2.25
					06/19/02 to 10/30/02	5.50
Highland Peak	375337114343801	37°53'37"	114°34'38"	9,330	08/29/01 to 06/13/02	+
					06/13/02 to 11/05/02	3.00
Kyle Canyon	361457115373301	36°14'57"	115°37'33"	7,760	10/09/01 to 06/17/02	2.25
					06/17/02 to 11/14/02	6.50
Lee Canyon	361822115402501	36°18'22"	115°40'25"	8,510	10/09/01 to 06/17/02	7.50
					06/17/02 to 11/14/02	4.75
Mt. Hamilton	391436115323901	39°14'36"	115°32'39"	10,600	10/02/01 to 06/18/02	9.50
					06/18/02 to 10/31/02	8.00
Mt. Irish	373915115232801	37°39'15"	115°23'28"	8,607	09/05/01 to 06/18/02	+
					06/18/02 to 10/30/02	+
Mt. Washington	385409114185401	38°54'09"	114°18'54"	10,440	10/16/01 to 06/12/02	16.25
					06/12/02 to 11/04/02	5.00
Mt. Wilson	381438114233301	38°14'38"	114°23'33"	9,200	10/02/01 to 06/26/02	1.25
					06/26/02 to 11/05/02	5.00
Potosi Peak	355641115294601	35°56'41"	115°29'46"	8,080	10/02/01 to 06/14/02	+
					06/14/02 to 11/15/02	1.25
Sheep Peak	363500115144301	36°35'00"	115°14'43"	9,600	10/02/01 to 06/19/02	1.25
					06/19/02 to 10/30/02	1.75
Trough Spring	362240115462101	36°22'40"	115°46'21"	8,240	10/09/01 to 06/21/02	+
					06/21/02 to 11/15/02	2.50
Unnamed peak in South Delamar Mountains	372035114432901	37°20'35"	114°43'29"	7,800	09/06/01 to06/18/02	+
					06/18/02 to 10/30/02	3.25
Unnamed peak Northwest of Mt. Moriah	391913114143101	39°19'13"	114°14'31"	9,300	10/02/01 to 06/26/02	--
					06/26/02 to 10/31/02	+
Unnamed peak South of Chokecherry Peak	373107114433301	37°31'07"	114°43'33"	7,800	09/07/01 to 06/13/02	+
					06/13/02 to 11/05/02	1.50

+Lost water to evaporation.
* Site vandalized.
-- Site not visited.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

CARBONATE ROCK STUDY AREA

COAL VALLEY

380758115204601. Local number, 171 N03 E59 10BD1.

LOCATION.--Lat 38°08'15", long 115°20'20", Hydrologic Unit 16060004, in Nye County.

AQUIFER.--Alluvium of Quaternary age and Paleozoic Carbonate Rock.

INSTRUMENTATION.--Water-level recorder November 1993 to May 1995, January 1999 to June 2000, May 2001 to current year.

DATUM.--Elevation of land-surface datum is 5,560 ft above NGVD of 1929, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--In Coal Valley. Water level affected by pumping of nearby well.

PERIOD OF RECORD.--December 1980 to November 1993, intermittent; November 1993 to May 1995, continuous; May 1995 to January 1999, intermittent; January 1999 to June 2000, continuous; May 2001 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 797.03 ft below land-surface datum, February 9, 1999; lowest recorded, 804.57 ft below land-surface datum, March 13, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	797.78	797.77	797.75	797.84	798.61	797.76	798.62	797.74	797.71	797.95	797.90	797.95
2	797.74	797.83	797.63	797.77	797.87	797.95	797.82	797.82	797.75	797.96	797.84	797.87
3	797.74	797.91	797.59	797.78	798.47	798.01	797.81	797.87	797.85	797.85	797.90	797.80
4	797.67	799.28	797.68	798.48	797.95	797.86	799.03	797.90	797.96	797.81	797.90	797.87
5	798.13	797.98	797.86	798.00	797.87	797.73	797.82	797.83	797.95	797.87	797.86	797.86
6	797.73	798.13	797.93	797.97	797.84	797.62	797.64	797.78	797.80	797.94	797.87	797.72
7	797.77	798.19	798.02	797.92	797.78	798.26	799.34	797.68	797.69	797.93	797.93	797.74
8	797.68	799.05	797.88	797.72	798.19	799.23	797.91	797.92	797.58	797.99	798.04	797.90
9	797.87	797.87	797.46	797.68	798.18	798.07	797.93	797.77	797.81	798.01	797.97	798.01
10	797.86	797.76	797.35	798.89	798.16	797.85	797.88	797.64	797.88	797.98	797.88	797.88
11	797.70	798.85	797.58	798.01	797.86	797.95	797.88	797.91	797.92	797.96	797.85	797.83
12	798.34	797.67	797.85	797.79	797.79	797.71	797.87	798.09	797.93	797.89	797.86	797.83
13	797.79	797.67	798.69	797.70	797.73	797.57	797.94	797.91	797.92	797.84	797.90	797.86
14	797.94	798.56	797.40	797.55	797.74	797.72	797.63	797.70	797.84	798.14	797.85	797.95
15	797.88	798.84	797.78	797.71	797.90	797.66	797.37	797.72	797.86	797.93	797.84	797.87
16	797.82	797.81	797.99	797.79	798.89	797.60	797.75	797.83	797.89	797.92	797.88	797.70
17	797.72	797.77	797.81	797.77	797.48	797.67	797.72	797.86	797.85	797.97	797.86	797.71
18	797.82	797.86	797.85	797.85	797.65	797.87	797.83	797.79	797.77	797.95	797.80	797.85
19	797.75	798.07	797.74	797.68	797.91	798.01	797.79	797.72	797.81	797.88	797.76	797.88
20	797.65	797.74	797.55	797.79	797.98	797.97	797.79	797.67	797.82	797.89	797.76	797.82
21	797.65	798.60	797.66	797.63	799.03	797.87	797.93	797.81	797.87	797.93	797.84	797.91
22	797.70	797.63	797.87	797.60	797.93	797.65	797.90	797.86	797.91	797.90	797.93	797.96
23	797.66	798.81	797.89	797.91	798.07	797.58	797.87	797.85	797.93	797.96	797.90	797.87
24	798.02	797.46	797.97	798.06	797.85	797.68	797.94	797.89	797.91	798.03	797.95	797.77
25	797.90	797.66	797.88	798.31	798.04	797.84	797.71	797.85	797.93	797.95	797.92	797.73
26	798.48	797.82	797.75	797.59	797.94	797.85	797.53	797.79	797.90	797.86	797.85	797.73
27	797.77	797.83	797.69	797.51	797.75	797.78	797.69	797.82	797.84	797.84	797.82	797.58
28	797.79	797.72	798.34	797.56	797.51	797.80	797.94	797.88	797.85	797.94	797.81	797.74
29	797.85	797.50	797.71	797.69	---	799.40	797.78	797.91	797.90	797.93	797.85	797.78
30	797.68	797.72	797.77	797.85	---	797.97	797.66	797.85	797.96	797.90	797.88	797.75
31	797.68	---	797.73	797.98	---	798.54	---	797.81	---	797.89	797.95	---
MAX	798.48	799.28	798.69	798.89	799.03	799.40	799.34	798.09	797.96	798.14	798.04	798.01
MIN	797.65	797.46	797.35	797.51	797.48	797.57	797.37	797.64	797.58	797.81	797.76	797.58

WTR YR 2002 HIGH 797.35 DEC 10 LOW 799.40 MAR 29

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

CARBONATE ROCK STUDY AREA

COYOTE SPRING VALLEY

364743114533101. Local number, 210 S13 E63 23DDDC1

LOCATION.--Lat 36°47'45", long 114°53'30", Hydrologic Unit 15010012, in Clark County
Owner: U.S. Geological Survey.

AQUIFER.-- Carbonate of Paleozoic age.

INSTRUMENTATION.-- Water-level recorder, July 1986 to September 1988, December 1990 to September 1996, February 1999 to current year.

DATUM.-- Elevation of land-surface datum is 2,173 feet above NGVD 0f 1929, from topographic map. Measuring point is the top lip of the casing 1.0 feet above land-surface.

REMARKS.-- CE-DT-4 Well.

PERIOD OF RECORD.-- December 1980, 1981, 1985, 1986, 1997, 1998, intermittent; July 1986 to September 1986, hourly, (unpublished and available in the files of the U.S. Geological Survey); October 1986 to September 1988, hourly; September 1988 to December 1990, monthly; December 1990 to September 1996, hourly; February 1999 to September 2000, hourly, October 2000 to current year, 4 times per hour.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 350.9 ft below land surface datum, September 27, 1990; lowest recorded, 354.30 ft below land surface datum, September 15, 19, 30, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353.86	353.91	353.96	353.88	353.84	353.65	353.54	353.58	353.64	353.93	354.04	354.18
2	353.85	353.94	353.90	353.87	353.79	353.77	353.53	353.61	353.67	353.95	354.02	354.14
3	353.86	353.97	353.83	353.87	353.84	353.80	353.55	353.64	353.72	353.92	354.06	354.12
4	353.83	353.93	353.89	353.92	353.81	353.73	353.59	353.65	353.78	353.90	354.08	354.15
5	353.84	353.91	354.01	353.96	353.79	353.66	353.57	353.62	353.78	353.92	354.06	354.16
6	353.86	353.90	354.03	353.94	353.77	353.69	353.48	353.59	353.72	353.96	354.06	354.13
7	353.90	353.97	354.04	353.90	353.75	353.55	353.52	353.53	353.66	353.97	354.09	354.13
8	353.86	354.03	354.01	353.80	353.75	353.69	353.59	353.66	353.62	353.99	354.13	354.19
9	353.88	353.96	353.81	353.75	353.91	353.77	353.63	353.62	353.72	353.99	354.10	354.23
10	353.95	353.92	353.71	353.88	353.93	353.66	353.60	353.52	353.80	354.00	354.05	354.18
11	353.89	353.90	353.83	353.91	353.77	353.69	353.60	353.66	353.81	353.99	354.04	354.18
12	353.95	353.87	353.98	353.83	353.68	353.59	353.58	353.76	353.82	353.95	354.03	354.18
13	353.89	353.88	354.00	353.76	353.67	353.50	353.62	353.68	353.82	353.93	354.05	354.17
14	353.89	353.94	353.78	353.70	353.64	353.61	353.50	353.56	353.78	353.94	354.03	354.22
15	353.93	353.91	353.92	353.73	353.73	353.59	353.40	353.56	353.79	354.00	354.04	354.20
16	353.92	353.93	354.06	353.81	353.65	353.57	353.59	353.60	353.81	354.00	354.07	354.12
17	353.88	353.93	353.98	353.82	353.51	353.58	353.56	353.64	353.80	354.04	354.08	354.13
18	353.91	353.96	353.97	353.85	353.58	353.66	353.62	353.62	353.76	354.03	354.05	354.18
19	353.89	354.00	353.91	353.79	353.71	353.72	353.61	353.60	353.77	354.00	354.05	354.23
20	353.84	353.94	353.82	353.81	353.74	353.69	353.63	353.61	353.81	354.00	354.06	354.19
21	353.84	353.86	353.86	353.75	353.82	353.63	353.67	353.69	353.85	354.02	354.10	354.22
22	353.86	353.79	353.96	353.69	353.72	353.54	353.65	353.70	353.88	354.01	354.15	354.24
23	353.84	353.87	353.96	353.86	353.54	353.49	353.62	353.67	353.89	354.05	354.14	354.21
24	353.95	353.80	354.00	353.94	353.64	353.55	353.64	353.71	353.88	354.09	354.16	354.18
25	353.97	353.87	353.96	353.81	353.75	353.62	353.57	353.69	353.89	354.05	354.15	354.15
26	353.97	353.96	353.88	353.69	353.74	353.62	353.48	353.67	353.88	354.00	354.11	354.16
27	353.91	353.99	353.84	353.63	353.62	353.58	353.59	353.68	353.87	354.00	354.09	354.11
28	353.91	353.97	353.82	353.65	353.50	353.56	353.67	353.70	353.88	354.04	354.10	354.17
29	353.95	353.85	353.83	353.71	---	353.58	353.60	353.72	353.91	354.04	354.13	354.22
30	353.89	353.93	353.86	353.81	---	353.61	353.56	353.69	353.94	354.02	354.15	354.22
31	353.87	---	353.84	353.90	---	353.59	---	353.68	---	354.04	354.18	---
MAX	353.97	354.03	354.06	353.96	353.93	353.80	353.67	353.76	353.94	354.09	354.18	354.24
MIN	353.83	353.79	353.71	353.63	353.50	353.49	353.40	353.52	353.62	353.90	354.02	354.11

WTR YR 2002 HIGH 353.40 APR 15 LOW 354.24 SEP 22

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

CARBONATE ROCK STUDY AREA

County code--003, Clark; 017, Lincoln; 023, Nye; 033, White Pine.
Depths, perforated interval, and elevation--Depths are referenced to land-surface datum (LSD). Elevation is that of LSD, with reference to sea level.
Water Level Method--C, calibrated airline; S, steel tape; V, calibrated electric tape.
Locations of following sites are shown in figures 30 and 40.

Local Well No	Site Identification	Period of Record	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method
156 N03 E50 13CA 1	380652116200901	1981	023	682.			5350.	10/15/2001	314.1		V
								12/17/2001	314.1		V
								04/23/2002	314.2		V
								07/16/2002	314.1		V
								09/24/2002	314.0		V
156 N07 E51 10AD 1	382901116125201	1980	023	480.			5600.	10/15/2001	236.1		V
								12/17/2001	236.0		V
								04/23/2002	236.1		V
								07/16/2002	236.0		V
								09/24/2002	235.9		V
171 N01 E58 24 1	375547115244201	1996	017	1560.	911.	1560.	4932.	10/17/2001	128.5		V
								12/19/2001	128.5		V
								04/25/2002	128.5		V
								07/18/2002	128.7		V
								09/26/2002	128.6		V
172 N02 E57 22BBC 1	380132115333501	1980	017	1010.			5550.	10/17/2001	406.2		V
								12/19/2001	406.2		V
								04/25/2002	406.0		V
								07/18/2002	406.0		V
								09/26/2002	405.8		V
172 N03 E59 10BD 1	380758115204601	1980	023	1837.			5560.	10/11/2001	797.6		V
								12/19/2001	797.7		V
								04/25/2002	797.8		V
								09/26/2002	797.8		V
173B N03 E52 02DA 2	380906116050502	1980	023	495.			5010.	10/15/2001	233.4		V
								12/17/2001	233.4		V
								04/23/2002	233.5		V
								07/16/2002	233.5		V
								09/24/2002	233.5		V
173B N10 E58 17CAAB1	384338115283601	1980	023	581.	279.	560.	5135.	10/15/2001	268.8		V
								12/17/2001	269.0		V
								04/23/2002	269.6		V
								07/16/2002	269.9		V
								09/24/2002	270.2		V
173B N11 E57 09CDB 1	384920115343001	1948	023	186.			5075.	10/15/2001	159.8		V
								12/17/2001	159.8		V
								03/20/2002	160.07		S
								04/23/2002	159.9		V
								07/16/2002	159.8		V
								09/24/2002	159.8		V
179 N12 E63 12AB 1	385521114503601	1980	033	948.	500.	940.	7320.	10/16/2001	425.0		V
								12/18/2001	425.4		V
								04/24/2002	426.4		V
								06/07/2002	426.4		V
								07/17/2002	426.8		V
								09/25/2002	427.2		V
180 N07 E63 14BADD1	382807114521001	1980	017	460.	210.	435.	6008.	10/17/2001	219.9		V
								12/19/2001	219.8		V
								04/25/2002	219.7		V
								07/18/2002	219.8		V
								09/26/2002	219.6		V
181 N03 E63 27CAA 1	380531114534201	1980	017	2395.			5560.	10/17/2001	847.8		V
								12/19/2001	847.8		V
								04/25/2002	847.6		V
								07/18/2002	847.7		V
								09/26/2002	847.4		V

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued
CARBONATE ROCK STUDY AREA

Local Well No	Site Identification	Period of Record	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method
181 N04 E64 07DC 1	381256114500701	1981	017	1190.			5530.	10/17/2001	254.2		V
								12/19/2001	254.1		V
								04/25/2002	254.1		V
								07/18/2002	254.1		V
								09/26/2002	253.9		V
181 S03 E64 12AC 1	374215114453101	1980	017	1000.			4640.	10/18/2001	394.2		V
								12/20/2001	394.0		V
								04/26/2002	393.9		V
								07/19/2002	394.2		V
								09/27/2002	393.8		V
182 S06 E63 12AD 1	372639114520901	1980	017	1195.			4710.	10/18/2001	863.2		V
								12/20/2001	863.0		V
								04/26/2002	862.9		V
								07/19/2002	863.3		V
								09/27/2002	862.8		V
183 N06 E66 35C 1	382003114322501	1946	017	161.			5950.	10/18/2001	152.55		S
								12/20/2001	151.58		S
								04/26/2002	149.96		S
								07/19/2002	152.91		S
								09/27/2002	154.06		S
183 N07 E66 16DC 1	382753114341301	1980	017	97.			5915.	10/17/2001	19.86		S
								04/25/2002	19.66		S
								07/18/2002	20.13		S
								09/26/2002	20.36		S
183 N08 E65 02D 1	383502114383201	1964	017	130.			5975.	10/17/2001	32.30		S
								12/20/2001	34.16		S
								04/25/2002	32.06		S
								07/18/2002	32.19		S
								09/26/2002	32.27		S
184 N09 E68 30AAAB1	383704114225001	1980	017	679.	559.	679.	6010.	10/16/2001	225.4		V
								12/18/2001	225.5		V
								04/24/2002	225.2		V
								07/17/2002	225.5		V
								09/25/2002	225.2		V
184 N10 E67 22AA 1	384310114261401	1980	033	100.			5889.	10/16/2001	65.42		S
								12/18/2001	65.49		S
								04/24/2002	65.57		S
								07/17/2002	65.63		S
								09/25/2002	65.61		S
184 N11 E68 19DCDC1	384745114224401	1981	033	200.			5906.	10/16/2001	98.59		S
								12/18/2001	98.65		S
								04/24/2002	98.80		S
								07/17/2002	98.90		S
								09/25/2002	98.97		S
184 N13 E67 18DCAB1	385920114294001	1960	033	120.			5850.	10/16/2001	52.17		S
								12/18/2001	52.22		S
								04/24/2002	52.22		S
								07/17/2002	52.29		S
								09/25/2002	52.33	R	S
184 N14 E66 24BDDD1	390352114305401	1981	033	160.			5840.	10/16/2001	37.31		S
								12/18/2001	37.63		S
								04/24/2002	37.73		S
								07/17/2002	37.77		S
								09/25/2002	37.05		S
195 N11 E70 35AD 1	384702114041601	1981	033	101.			5578.	10/16/2001	69.16		S
								12/18/2001	69.07		S
								04/24/2002	68.99		S
								07/14/2002	69.09		S
								09/25/2002	69.16		S

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

CARBONATE ROCK STUDY AREA

Local Well No	Site Identification	Period of Record	County Code	Well Depth	Perforated Interval (feet) Top	Perforated Interval (feet) Bottom	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	Feet	Status	Method
195 N11 E70 35BA 1	384714114051001	1980	033	200.			5660.	10/16/2001	141.89		S
								12/18/2001	141.91		S
								04/24/2002	141.98		S
								07/17/2002	141.96		S
								09/25/2002	141.93		S
195 N14 E70 08DC 1	390543114081801	1981	033	79.			5996.	12/18/2001	62.13		S
								04/24/2002	60.78		S
								07/17/2002	62.05		S
								09/25/2002	63.27		S
195 N15 E70 25DD 1	390812114033601	1981	033	94.			5068.	10/16/2001	13.66		S
								12/18/2001	13.28		S
								07/17/2002	13.78		S
								09/25/2002	13.87		S
196 N08 E69 35DC 2	383023114115302	1980	017	435.			5830.	10/16/2001	173.6		V
								12/18/2001	174.3		V
								04/24/2002	174.8		V
								07/17/2002	174.9		V
								09/25/2002	174.9		V
210 S12 E63 29DABC1	365227114554401	1981	017	1221.	0.	1221.	2466.9	10/04/2001	610.7		V
								12/11/2001	610.6		V
								01/31/2002	611.0		V
								05/13/2002	611.0		V
								07/22/2002	611.0		V
210 S13 E63 23DDDC1	364743114533101	1981	003	669.	50.	669.	2172.6	10/04/2001	353.9		V
								12/11/2001	353.9		V
								01/31/2002	353.9		V
								03/05/2002	353.7		V
								03/05/2002	353.7		V
								03/07/2002	353.6		V
								05/13/2002	353.8		V
								07/22/2002	354.1		V
215 S19 E63 13DCAA1	361736114531601	1993	003	900.	540.	900.	2388.4	10/25/2001	576.0	S	V
								12/14/2001	575.8	S	V
								05/14/2002	575.7		V
								09/30/2002	576.4		V
217 S16 E63 09DDAB1	363308114553001	1985	003	920	45.	920.	2648.8	10/01/2001	832.2		V
								10/01/2001	832.1		V
								12/11/2001	832.0		V
								01/31/2002	832.6		V
								02/21/2002	832.7		V
								03/05/2002	832.3		V
								05/14/2002	832.2		V
								09/24/2002	832.3		V
219 S13 E64 35ACAA1	364604114471301	1981	003	937.	325.	937.	2274.6	10/02/2001	460.		C
								11/01/2001	457.		C
								11/30/2001	462.		C
								01/03/2002	460.		C
								02/01/2002	460.		C
								03/01/2002	461.		C
								04/02/2002	463.		C
								05/01/2002	460.		C
								05/31/2002	460.		C
								07/02/2002	517.	P	C
								08/01/2002	513.		C
								09/04/2002	512.		C
219 S13 E65 28BDAC1	364650114432001	1985	003	478.	95.	478.	2185.9	10/04/2001	393.6		V
								12/11/2001	393.3		V
								01/31/2002	393.2		V
								05/13/2002	393.3		V
								07/22/2002	393.8		V
								09/30/2002	394.1		V

361410115142601. Local number, 212 S20 E60 02CCBB1.

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above NGVD of 1929, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 227.48 ft below land-surface datum, May 1, 2001; lowest, 328.85 ft below land-surface datum, October 1, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271.24	261.89	257.13	253.45	251.47	248.85	244.70	246.08	254.05	269.20	276.92	287.04
2	269.21	261.82	256.86	253.34	251.26	249.06	244.64	246.11	253.52	271.30	277.56	287.27
3	268.21	261.76	256.56	253.23	251.28	249.08	244.60	246.16	253.74	271.75	278.12	287.31
4	267.04	261.55	256.51	253.23	251.15	248.84	244.61	246.15	255.71	270.83	278.32	286.59
5	266.59	261.41	256.64	253.25	251.04	248.56	244.52	246.07	256.19	271.09	278.35	285.69
6	266.31	261.25	256.57	253.09	250.93	248.12	244.35	245.99	256.43	271.47	278.98	284.83
7	266.10	261.26	256.44	252.95	250.81	247.34	244.40	245.85	256.71	270.74	279.35	283.25
8	265.76	261.29	256.31	253.12	250.68	247.46	244.49	246.04	257.07	272.70	279.50	284.84
9	265.50	261.06	255.73	252.52	250.95	247.61	244.55	246.01	258.23	274.50	279.76	285.47
10	265.44	260.86	255.38	252.62	250.96	247.27	244.41	245.85	258.86	273.14	280.20	284.74
11	265.11	260.69	255.49	252.63	250.57	247.25	244.38	246.02	259.08	274.49	280.54	284.29
12	264.99	260.53	255.69	252.37	250.24	247.03	244.26	246.27	259.41	274.60	280.29	279.57
13	264.70	260.42	255.67	252.11	250.17	246.67	244.26	246.08	259.55	278.73	280.67	278.87
14	264.49	260.45	255.07	251.88	250.05	246.78	243.97	245.79	259.75	275.67	281.00	278.62
15	264.40	260.30	255.19	251.80	250.14	246.70	243.67	245.75	260.31	276.82	281.41	278.45
16	264.22	260.22	255.42	251.92	249.94	246.53	244.37	245.83	260.74	274.53	281.72	285.72
17	263.94	260.12	255.16	251.87	249.59	246.47	245.88	245.93	261.04	273.46	282.08	286.75
18	263.83	260.07	255.01	251.83	249.61	246.49	245.45	245.88	260.80	273.38	284.76	287.37
19	263.65	260.08	254.80	251.63	249.82	246.61	244.21	245.80	261.55	272.93	286.39	289.71
20	263.38	259.85	254.50	251.57	249.82	246.51	244.03	245.83	263.20	273.33	286.61	288.61
21	263.21	259.56	254.44	251.39	249.91	246.17	244.00	245.96	267.24	273.58	287.59	290.25
22	263.12	259.30	254.58	251.13	249.67	245.80	244.25	248.80	268.15	273.82	287.93	290.89
23	262.93	259.38	254.47	251.37	249.17	245.56	244.20	246.70	268.88	275.80	288.24	291.04
24	263.00	259.18	254.46	251.51	249.28	245.54	247.32	246.25	269.20	276.75	287.26	292.06
25	262.95	259.18	254.30	251.17	249.43	245.58	248.09	246.11	267.99	277.32	288.38	293.73
26	262.82	259.29	254.04	250.80	249.39	245.49	246.23	246.03	266.97	275.58	286.69	295.14
27	262.56	259.24	253.83	250.61	249.05	245.29	246.22	246.01	267.00	275.43	285.54	295.73
28	262.40	259.15	253.71	250.87	248.71	245.15	246.36	246.17	269.95	275.62	286.16	296.22
29	262.37	258.27	253.63	251.39	---	245.05	246.24	250.17	270.81	276.00	287.05	296.99
30	262.12	257.33	253.61	251.56	---	245.03	246.10	253.61	269.62	275.92	287.54	297.45
31	261.94	---	253.44	251.68	---	244.89	---	254.78	---	276.49	286.93	---
MAX	271.24	261.89	257.13	253.45	251.47	249.08	248.09	254.78	270.81	278.73	288.38	297.45
MIN	261.94	257.33	253.44	250.61	248.71	244.89	243.67	245.75	253.52	269.20	276.92	278.45

WTR YR 2002 HIGH 243.67 APR 15 LOW 297.45 SEP 30

361410115142602. Local number, 212 S20 E60 02CCBB2.

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above NGVD of 1929, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 227.15 ft below land-surface datum, May 1, 2001, lowest, 311.46 ft below land-surface datum, October 1, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262.48	256.80	253.71	250.43	247.86	245.23	242.20	241.09	243.87	254.92	263.29	272.36
2	261.61	256.75	253.49	250.31	247.66	245.46	242.10	241.11	243.85	255.75	263.61	272.58
3	261.24	256.71	253.21	250.21	247.68	245.48	242.06	241.15	244.13	256.19	264.03	272.71
4	260.80	256.52	253.19	250.23	247.55	245.23	242.06	241.14	245.37	256.08	264.31	272.68
5	260.52	256.39	253.35	250.25	247.44	244.95	241.94	241.05	245.71	256.39	264.60	272.55
6	260.34	256.23	253.31	250.10	247.33	244.71	241.68	240.96	245.85	256.78	264.86	272.30
7	260.23	256.26	253.19	249.94	247.20	244.38	241.71	240.80	246.01	256.75	265.12	271.87
8	259.95	256.31	253.07	249.69	247.09	244.59	241.79	240.98	246.21	257.59	265.42	272.37
9	259.77	256.08	252.49	249.43	247.37	244.78	241.83	240.91	246.75	258.42	265.63	272.67
10	259.77	255.88	252.14	249.61	247.38	244.46	241.68	240.68	247.26	258.30	265.85	272.39
11	259.48	255.71	252.27	249.64	246.98	244.45	241.63	240.89	247.53	258.92	266.13	272.36
12	259.42	255.56	252.51	249.38	246.64	244.18	241.52	241.14	247.81	259.14	266.25	270.74
13	259.16	255.46	252.49	249.11	246.56	243.85	241.52	240.94	247.97	260.64	266.55	270.33
14	259.01	255.50	251.89	248.88	246.42	243.98	241.21	240.63	248.10	260.09	266.80	270.17
15	258.95	255.36	252.04	248.81	246.53	243.90	240.89	240.58	248.48	260.72	267.07	270.04
16	258.81	255.29	252.29	248.95	246.32	243.75	241.23	240.68	248.82	260.22	267.39	272.22
17	258.56	255.21	252.03	248.90	245.97	243.68	241.34	240.74	249.06	260.09	267.66	272.80
18	258.48	255.16	251.89	248.88	245.99	243.72	241.40	240.68	249.11	260.15	268.70	273.26
19	258.32	255.17	251.68	248.69	246.22	243.85	241.19	240.58	249.45	260.03	269.47	274.17
20	258.07	254.95	251.37	248.63	246.22	243.74	241.13	240.60	250.18	260.30	269.84	273.76
21	257.94	254.65	251.32	248.44	246.33	243.49	241.16	240.72	251.64	260.54	270.45	274.39
22	257.87	254.38	251.49	248.18	246.07	243.18	241.22	241.88	252.31	260.73	270.95	274.87
23	257.71	254.48	251.39	248.45	245.55	242.96	241.00	241.10	252.85	261.50	271.27	275.11
24	257.80	254.28	251.39	248.60	245.66	242.96	241.54	240.91	253.23	262.17	271.17	275.61
25	257.77	254.30	251.23	248.26	245.83	243.03	241.88	240.79	253.14	262.47	271.78	276.52
26	257.65	254.43	250.97	247.88	245.78	242.94	241.20	240.70	253.00	262.07	271.29	277.41
27	257.41	254.39	250.77	247.68	245.43	242.76	241.25	240.69	253.16	262.14	271.08	277.80
28	257.27	254.29	250.64	247.69	245.08	242.63	241.40	240.74	254.28	262.37	271.34	278.32
29	257.24	253.85	250.57	247.78	---	242.55	241.25	241.95	254.88	262.62	271.88	278.91
30	257.01	253.77	250.56	247.92	---	242.54	241.11	243.39	254.86	262.71	272.19	279.33
31	256.84	---	250.41	248.06	---	242.41	---	243.92	---	263.06	272.23	---
MAX	262.48	256.80	253.71	250.43	247.86	245.48	242.20	243.92	254.88	263.06	272.23	279.33
MIN	256.84	253.77	250.41	247.68	245.08	242.41	240.89	240.58	243.85	254.92	263.29	270.04

WTR YR 2002 HIGH 240.58 MAY 15 LOW 279.33 SEP 30

361410115142603. Local number, 212 S20 E60 02CCBB3..

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above NGVD of 1929, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 203.87 ft below land-surface datum, May 27-28, 2001; lowest, 243.49 ft below land-surface datum, October 21, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226.23	224.51	221.84	218.82	216.49	214.99	214.07	213.73	214.41	219.61	225.44	230.10
2	226.25	224.55	221.76	218.69	216.38	215.21	214.01	213.70	214.68	219.80	225.60	230.12
3	226.27	224.54	221.56	218.63	216.41	215.28	213.96	213.85	214.97	219.95	225.71	230.17
4	226.26	224.41	221.55	218.59	216.30	215.14	214.00	213.90	215.08	220.03	225.99	230.41
5	226.22	224.33	221.65	218.63	216.31	214.98	213.97	213.92	215.14	220.22	226.11	230.52
6	226.21	224.18	221.60	218.63	216.23	214.77	213.82	213.96	215.14	220.63	226.10	230.44
7	226.27	224.21	221.51	218.46	216.14	214.53	213.83	213.87	215.17	220.92	226.33	230.44
8	226.22	224.26	221.44	218.13	216.10	214.67	213.96	214.07	215.25	221.19	226.70	230.62
9	226.20	224.12	220.92	217.89	216.34	214.90	214.10	213.93	215.53	221.29	226.86	230.76
10	226.33	223.94	220.57	218.08	216.44	214.75	214.05	213.69	215.89	221.47	226.82	230.81
11	226.15	223.76	220.61	218.20	216.18	214.87	214.10	213.84	216.09	221.71	226.86	230.78
12	226.09	223.63	220.77	218.03	215.87	214.67	214.02	214.03	216.28	221.81	226.99	230.74
13	225.94	223.49	220.79	217.85	215.75	214.41	214.11	214.10	216.44	221.98	227.13	230.80
14	225.97	223.48	220.20	217.65	215.61	214.48	213.84	213.93	216.41	222.21	227.30	230.97
15	226.04	223.35	220.30	217.57	215.70	214.42	213.55	213.90	216.59	222.61	227.47	230.95
16	225.99	223.32	220.51	217.64	215.54	214.39	213.77	213.99	216.79	222.77	227.66	230.82
17	225.86	223.28	220.26	217.59	215.21	214.27	213.68	213.97	216.88	223.12	227.82	230.88
18	225.75	223.26	220.16	217.55	215.23	214.30	213.78	213.99	216.90	223.38	227.93	231.04
19	225.64	223.26	220.01	217.39	215.44	214.43	213.75	213.96	217.02	223.38	228.04	231.33
20	225.44	223.11	219.74	217.40	215.49	214.40	213.79	213.99	217.21	223.50	228.23	231.39
21	225.44	222.86	219.65	217.26	215.71	214.30	213.86	214.02	217.50	223.69	228.55	231.53
22	225.45	222.62	219.81	217.04	215.56	214.16	213.88	213.99	217.83	223.83	228.80	231.69
23	225.36	222.61	219.69	217.20	215.16	214.00	213.87	213.91	218.01	223.94	228.99	231.73
24	225.50	222.40	219.70	217.34	215.35	213.95	213.86	214.04	218.22	224.32	229.15	231.71
25	225.52	222.36	219.57	216.99	215.51	214.02	213.75	214.09	218.52	224.42	229.33	231.71
26	225.47	222.42	219.33	216.65	215.52	214.02	213.55	214.09	218.72	224.51	229.37	231.81
27	225.16	222.36	219.12	216.48	215.21	213.95	213.63	214.13	218.78	224.66	229.40	231.79
28	224.98	222.23	218.97	216.45	214.87	213.89	213.84	214.22	218.88	224.86	229.55	231.93
29	224.96	221.84	218.94	216.44	---	213.96	213.81	214.36	219.17	225.05	229.71	232.03
30	224.77	221.86	218.87	216.55	---	214.14	213.77	214.37	219.39	225.08	229.88	232.16
31	224.59	---	218.83	216.65	---	214.12	---	214.44	---	225.34	230.02	---
MAX	226.33	224.55	221.84	218.82	216.49	215.28	214.11	214.44	219.39	225.34	230.02	232.16
MIN	224.59	221.84	218.83	216.44	214.87	213.89	213.55	213.69	214.41	219.61	225.44	230.10

WTR YR 2002 HIGH 213.55 APR 26 LOW 232.16 SEP 30

361704115121901. Local number, 212 S19 E61 19BC1

LOCATION.--Lat 36°17'04", long 115°12'14", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder August 1998 to current year.

DATUM.--Elevation of land-surface datum is 2,300 ft above NGVD of 1929, from topographic map. Measuring point: top lip of casing, 1.86 ft above land-surface datum.

PERIOD OF RECORD.--August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 119.67 ft below land-surface datum, March 16, 2001; lowest recorded, 142.69 ft below land-surface datum, October 1, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138.69	136.73	132.41	127.65	124.17	122.86	122.69	125.19	128.73	133.44	137.28	140.41
2	138.71	136.58	132.21	127.53	124.07	122.91	122.74	125.28	128.88	133.58	137.46	140.45
3	138.73	136.44	131.98	127.39	124.07	122.93	122.87	125.41	129.06	133.68	137.62	140.38
4	138.75	136.27	131.81	127.28	124.01	122.87	123.02	125.49	129.30	133.79	137.76	140.38
5	138.77	136.11	131.71	127.17	123.93	122.78	123.12	125.54	129.48	133.87	137.84	140.39
6	138.73	135.95	131.56	127.05	123.83	122.73	123.16	125.59	129.58	133.90	137.96	140.30
7	138.72	135.82	131.40	126.91	123.74	122.66	123.29	125.61	129.67	134.03	138.08	140.30
8	138.67	135.72	131.22	126.72	123.66	122.73	123.40	125.81	129.76	134.21	138.21	140.37
9	138.73	135.54	130.93	126.56	123.71	122.78	123.46	125.92	129.99	134.38	138.31	140.40
10	138.77	135.39	130.72	126.53	123.70	122.70	123.50	126.01	130.17	134.54	138.40	140.32
11	138.69	135.27	130.60	126.44	123.55	122.71	123.57	126.24	130.32	134.62	138.48	140.27
12	138.67	135.15	130.54	126.28	123.43	122.65	123.68	126.45	130.49	134.69	138.44	140.16
13	138.52	135.05	130.41	126.14	123.38	122.61	123.80	126.47	130.63	134.84	138.48	140.08
14	138.40	134.95	130.10	125.99	123.29	122.67	123.81	126.48	130.73	135.03	138.61	140.06
15	138.34	134.83	130.00	125.89	123.29	122.66	123.84	126.64	130.88	135.25	138.77	140.00
16	138.27	134.74	129.91	125.86	123.19	122.65	124.01	126.85	131.05	135.33	138.92	139.99
17	138.15	134.62	129.70	125.77	123.04	122.65	124.07	127.03	131.18	135.43	139.00	139.99
18	138.10	134.50	129.54	125.69	123.03	122.65	124.19	127.18	131.28	135.56	139.09	140.05
19	138.04	134.41	129.38	125.53	123.04	122.65	124.27	127.30	131.41	135.63	139.20	140.05
20	137.96	134.25	129.18	125.46	123.03	122.62	124.39	127.40	131.57	135.69	139.32	140.01
21	137.86	134.05	129.05	125.30	123.08	122.59	124.53	127.53	131.74	135.80	139.44	140.03
22	137.80	133.86	128.98	125.15	123.02	122.55	124.62	127.61	131.93	135.88	139.50	140.02
23	137.79	133.77	128.87	125.14	122.87	122.53	124.67	127.72	132.12	135.96	139.60	140.00
24	137.75	133.58	128.76	125.09	122.91	122.52	124.77	127.85	132.31	136.08	139.73	139.95
25	137.67	133.44	128.61	124.89	122.95	122.50	124.77	127.93	132.49	136.18	139.83	139.92
26	137.57	133.31	128.46	124.71	122.90	122.44	124.78	128.03	132.64	136.34	139.90	139.85
27	137.41	133.14	128.31	124.58	122.84	122.40	124.93	128.12	132.78	136.53	140.00	139.82
28	137.28	132.96	128.15	124.48	122.79	122.44	125.05	128.22	132.94	136.70	140.13	139.86
29	137.18	132.71	128.02	124.40	---	122.51	125.09	128.31	133.11	136.82	140.24	139.92
30	137.04	132.57	127.92	124.36	---	122.58	125.12	128.43	133.28	136.95	140.30	139.95
31	136.87	---	127.75	124.30	---	122.65	---	128.58	---	137.11	140.36	---
MAX	138.77	136.73	132.41	127.65	124.17	122.93	125.12	128.58	133.28	137.11	140.36	140.45
MIN	136.87	132.57	127.75	124.30	122.79	122.40	122.69	125.19	128.73	133.44	137.28	139.82

WTR YR 2002 HIGH 122.40 MAR 27 LOW 140.45 SEP 2

361626115090701. Local number, 212 S19 E61 21DDB1.

LOCATION.--Lat 36°16'52", long 115°09'31", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder November 2000 to current year.

DATUM.--Elevation of land-surface datum is 2,160 ft above NGVD of 1929, from topographic map. Measuring point: 2 in pipe on north side of pump base, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--1973 to 1985, annual; 1986 to 1990, intermittent; 1991 to October 2000, quarterly; November 2000 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.75 ft below land-surface datum, April 24, 1973; lowest recorded, 47.59 ft below land-surface datum, September 1, 4, and 5, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.20	46.85	46.49	46.19	46.07	46.09	46.09	46.34	46.84	47.21	47.43	47.58
2	47.19	46.83	46.47	46.19	46.06	46.11	46.09	46.36	46.85	47.22	47.43	47.58
3	47.19	46.83	46.45	46.18	46.08	46.12	46.10	46.38	46.88	47.22	47.45	47.57
4	47.17	46.81	46.45	46.18	46.07	46.11	46.11	46.39	46.90	47.23	47.45	47.58
5	47.16	46.80	46.46	46.19	46.07	46.09	46.10	46.40	46.91	47.24	47.46	47.58
6	47.15	46.78	46.46	46.18	46.07	46.07	46.08	46.41	46.92	47.25	47.47	47.56
7	47.15	46.78	46.45	46.16	46.07	46.05	46.09	46.42	46.92	47.26	47.47	47.55
8	47.13	46.78	46.44	46.14	46.06	46.10	46.11	46.46	46.93	47.27	47.48	47.55
9	47.12	46.75	46.38	46.12	46.10	46.12	46.12	46.47	46.96	47.27	47.48	47.55
10	47.12	46.73	46.36	46.14	46.11	46.09	46.12	46.47	46.98	47.28	47.49	47.54
11	47.10	46.72	46.37	46.14	46.08	46.11	46.12	46.52	47.00	47.28	47.49	47.54
12	47.10	46.70	46.38	46.12	46.06	46.08	46.13	46.55	47.02	47.30	47.49	47.53
13	47.07	46.69	46.38	46.11	46.06	46.06	46.14	46.55	47.03	47.30	47.50	47.53
14	47.06	46.69	46.33	46.09	46.05	46.09	46.12	46.54	47.04	47.30	47.49	47.53
15	47.06	46.67	46.35	46.08	46.07	46.09	46.11	46.56	47.05	47.32	47.50	47.52
16	47.05	46.66	46.36	46.10	46.05	46.08	46.16	46.59	47.06	47.32	47.51	47.51
17	47.03	46.65	46.33	46.10	46.03	46.08	46.17	46.62	47.07	47.33	47.51	47.50
18	47.02	46.64	46.33	46.10	46.04	46.10	46.19	46.63	47.08	47.33	47.52	47.52
19	47.00	46.64	46.31	46.08	46.08	46.12	46.19	46.65	47.09	47.33	47.52	47.51
20	46.98	46.62	46.28	46.10	46.08	46.12	46.21	46.67	47.10	47.33	47.53	47.51
21	46.97	46.60	46.28	46.08	46.10	46.10	46.22	46.69	47.12	47.34	47.54	47.51
22	46.96	46.57	46.30	46.06	46.08	46.07	46.23	46.70	47.13	47.35	47.55	47.51
23	46.95	46.58	46.28	46.09	46.05	46.07	46.23	46.71	47.14	47.36	47.55	47.51
24	46.95	46.55	46.28	46.12	46.08	46.08	46.25	46.73	47.15	47.37	47.55	47.50
25	46.94	46.55	46.27	46.08	46.10	46.10	46.25	46.74	47.16	47.37	47.56	47.50
26	46.93	46.55	46.24	46.05	46.09	46.10	46.24	46.75	47.16	47.37	47.55	47.50
27	46.91	46.54	46.23	46.04	46.07	46.09	46.28	46.77	47.17	47.39	47.55	47.49
28	46.90	46.53	46.22	46.04	46.05	46.09	46.31	46.79	47.18	47.39	47.56	47.50
29	46.89	46.50	46.21	46.05	---	46.09	46.31	46.81	47.19	47.41	47.57	47.50
30	46.87	46.50	46.21	46.07	---	46.10	46.32	46.82	47.21	47.41	47.57	47.49
31	46.86	---	46.19	46.09	---	46.10	---	46.83	---	47.42	47.57	---
MAX	47.20	46.85	46.49	46.19	46.11	46.12	46.32	46.83	47.21	47.42	47.57	47.58
MIN	46.86	46.50	46.19	46.04	46.03	46.05	46.08	46.34	46.84	47.21	47.43	47.49

WTR YR 2002 HIGH 46.03 FEB 17 LOW 47.58 SEP 1-2

361456115111001. Local number, 212 S19 E61 32CC1.

LOCATION.--Lat 36°14'55", long 115°11'16", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder August 1998 to current year.

DATUM.--Elevation of land-surface datum is 2,190 ft above NGVD of 1929, from topographic map. Measuring point: top lip of casing, 1.69 ft above land-surface datum.

PERIOD OF RECORD.--August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 123.69 ft below land-surface datum, June 8, 2002; lowest, 144.88 ft below land-surface datum, October 5, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127.73	127.72	127.37	126.64	125.86	125.17	124.47	123.99	123.79	124.15	---	---
2	127.73	127.73	127.32	126.60	125.81	125.24	124.45	123.99	123.79	124.17	---	---
3	127.74	127.74	127.25	126.59	125.82	125.25	124.44	124.00	123.81	124.16	---	---
4	127.72	127.70	127.27	126.60	125.79	125.18	124.46	123.99	123.85	124.16	---	---
5	127.72	127.69	127.33	126.62	125.76	125.11	124.43	123.97	123.85	124.18	---	---
6	127.75	127.67	127.34	126.58	125.73	125.03	124.34	123.94	123.82	124.22	---	---
7	127.78	127.70	127.32	126.53	125.69	124.95	124.35	123.89	123.78	124.24	---	---
8	127.76	127.75	127.30	126.44	125.66	125.02	124.37	123.95	123.75	124.27	---	---
9	127.77	127.71	127.14	126.36	125.77	125.08	124.39	123.93	123.81	124.30	---	---
10	127.83	127.67	127.04	126.42	125.78	125.00	124.35	123.85	123.87	124.33	---	---
11	127.79	127.64	127.09	126.43	125.67	125.01	124.34	123.92	123.87	124.35	---	---
12	127.84	127.61	127.16	126.36	125.58	124.94	124.31	123.99	123.89	124.34	---	---
13	127.80	127.59	127.17	126.29	125.55	124.83	124.32	123.93	123.90	124.35	---	---
14	127.80	127.62	126.99	126.21	125.51	124.88	124.22	123.85	123.89	124.37	---	---
15	127.82	127.60	127.05	126.19	125.54	124.86	124.14	123.83	123.89	124.42	---	---
16	127.81	127.60	127.13	126.23	125.47	124.81	124.23	123.86	123.91	124.43	---	---
17	127.78	127.60	127.05	126.21	125.36	124.79	124.20	123.87	123.91	124.47	---	---
18	127.80	127.60	127.03	126.22	125.36	124.81	124.21	123.85	123.90	124.47	---	---
19	127.78	127.63	126.97	126.16	125.43	124.85	124.18	123.82	123.90	124.46	---	---
20	127.75	127.58	126.89	126.16	125.43	124.82	124.17	123.83	123.93	124.49	---	---
21	127.74	127.51	126.87	126.10	125.48	124.77	124.19	123.87	123.98	124.51	---	---
22	127.74	127.43	126.92	126.02	125.40	124.69	124.17	123.86	124.01	124.53	---	---
23	127.72	127.47	126.90	126.10	125.25	124.63	124.14	123.83	124.02	124.59	---	---
24	127.79	127.40	126.91	126.15	125.29	124.63	124.16	123.86	124.03	124.64	---	---
25	127.81	127.41	126.88	126.05	125.33	124.66	124.10	123.83	124.04	124.62	---	---
26	127.82	127.46	126.81	125.94	125.33	124.64	124.01	123.82	124.03	124.66	---	---
27	127.77	127.46	126.74	125.87	125.22	124.59	124.05	123.82	124.03	---	---	---
28	127.76	127.45	126.69	125.85	125.11	124.56	124.09	123.83	124.06	---	---	---
29	127.78	127.33	126.66	125.85	---	124.54	124.04	123.84	124.10	---	---	---
30	127.74	127.36	126.66	125.88	---	124.55	124.00	123.83	124.14	---	---	---
31	127.71	---	126.62	125.93	---	124.52	---	123.82	---	---	---	---
MAX	127.84	127.75	127.37	126.64	125.86	125.25	124.47	124.00	124.14	124.66	---	---
MIN	127.71	127.33	126.62	125.85	125.11	124.52	124.00	123.82	123.75	124.15	---	---

361232115061001. Local number, 212 S20 E61 13ABDB1.

LOCATION.--Lat 36°12'57", long 115°06'16", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder January 1999 to current year.

DATUM.--Elevation of land-surface datum is 1,857 ft above NGVD of 1929, from topographic map. Measuring point: pipe on west side of pump base, .50 ft above land-surface datum.

PERIOD OF RECORD.--February 1973 through 1985, yearly; 1986, monthly; 1989 to 1998 yearly; January 1999 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 41.14 ft below land-surface datum, April 25 -26 and May 7, 2002; lowest, 82.64 ft below land-surface datum, September 12, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.66	42.47	42.27	42.06	41.86	41.60	41.30	41.17	41.34	41.55	41.61	41.54
2	42.65	42.47	42.24	42.05	41.83	41.64	41.29	41.18	41.35	41.54	41.61	41.52
3	42.64	42.47	42.21	42.04	41.85	41.64	41.28	41.19	41.36	41.53	41.63	41.51
4	42.62	42.46	42.22	42.05	41.83	41.60	41.29	41.19	41.36	41.52	41.65	41.52
5	42.61	42.46	42.26	42.06	41.82	41.56	41.27	41.18	41.33	41.54	41.64	41.53
6	42.60	42.44	42.25	42.05	41.81	41.54	41.24	41.17	41.31	41.55	41.65	41.51
7	42.60	42.45	42.25	42.03	41.79	41.50	41.25	41.16	41.30	41.57	41.66	41.52
8	42.58	42.48	42.24	41.98	41.78	41.54	41.26	41.20	41.30	41.57	41.67	41.54
9	42.57	42.45	42.16	41.97	41.83	41.58	41.27	41.20	41.33	41.58	41.66	41.53
10	42.59	42.43	42.12	42.01	41.84	41.53	41.25	41.19	41.36	41.58	41.65	41.50
11	42.57	42.41	42.15	42.02	41.78	41.54	41.25	41.24	41.37	41.59	41.65	41.50
12	42.59	42.39	42.20	41.98	41.74	41.49	41.24	41.29	41.37	41.59	41.60	41.49
13	42.56	42.39	42.20	41.96	41.73	41.45	41.24	41.26	41.38	41.59	41.58	41.48
14	42.55	42.41	42.11	41.95	41.72	41.49	41.20	41.22	41.37	41.60	41.57	41.49
15	42.56	42.39	42.15	41.96	41.74	41.47	41.17	41.24	41.38	41.62	41.58	41.46
16	42.55	42.38	42.19	41.99	41.71	41.46	41.21	41.27	41.40	41.62	41.58	41.43
17	42.53	42.37	42.15	42.00	41.66	41.46	41.20	41.28	41.41	41.64	41.56	41.41
18	42.54	42.38	42.14	42.01	41.67	41.47	41.20	41.28	41.40	41.63	41.57	41.43
19	42.53	42.39	42.11	41.99	41.70	41.49	41.20	41.27	41.41	41.61	41.54	41.44
20	42.52	42.36	42.07	41.96	41.70	41.49	41.20	41.29	41.43	41.61	41.52	41.43
21	42.50	42.32	42.07	41.91	41.72	41.45	41.21	41.33	41.45	41.62	41.53	41.44
22	42.50	42.28	42.11	41.87	41.68	41.41	41.20	41.32	41.47	41.62	41.53	41.44
23	42.48	42.30	42.10	41.93	41.61	41.39	41.18	41.31	41.47	41.63	41.53	41.42
24	42.52	42.27	42.12	41.95	41.64	41.39	41.20	41.33	41.48	41.64	41.55	41.41
25	42.52	42.28	42.09	41.91	41.66	41.41	41.18	41.33	41.49	41.62	41.57	41.40
26	42.52	42.30	42.06	41.86	41.65	41.39	41.16	41.34	41.50	41.61	41.55	41.39
27	42.49	42.30	42.04	41.84	41.60	41.37	41.19	41.35	41.50	41.62	41.54	41.38
28	42.49	42.30	42.03	41.84	41.56	41.36	41.22	41.36	41.50	41.62	41.54	41.40
29	42.50	42.24	42.03	41.84	---	41.36	41.20	41.36	41.52	41.61	41.54	41.40
30	42.47	42.27	42.06	41.86	---	41.37	41.16	41.35	41.54	41.61	41.54	41.38
31	42.46	---	42.05	41.88	---	41.33	---	41.35	---	41.62	41.55	---
MAX	42.66	42.48	42.27	42.06	41.86	41.64	41.30	41.36	41.54	41.64	41.67	41.54
MIN	42.46	42.24	42.03	41.84	41.56	41.33	41.16	41.16	41.30	41.52	41.52	41.38

WTR YR 2002 HIGH 41.16 APR 30 LOW 42.66 OCT 1

361400115040901. Local number, 212 S20 E62 05CAAA1.

LOCATION.--Lat 36°14'00", long 115°04'09", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water-level recorder August 1998 to current year.

DATUM.--Elevation of land-surface datum is 1,869 ft above NGVD of 1929, from topographic map. Measuring point: hole in top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--February 1973 to July 1998, intermittent, August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.56 ft below land-surface datum, May 12, 13, 1999; lowest measured, 157.36 ft below land-surface datum, September 15, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87.60	85.86	84.04	82.12	80.09	78.75	77.96	83.36	88.81	92.73	89.96	89.93
2	87.49	85.81	83.95	82.03	80.05	78.78	77.97	83.74	88.91	92.56	89.93	89.75
3	87.40	85.76	83.83	81.93	80.06	78.76	77.99	84.14	89.02	92.38	90.16	89.56
4	87.28	85.65	83.78	81.87	80.02	78.66	78.03	84.54	89.11	92.22	90.48	89.43
5	87.20	85.56	83.78	81.82	79.97	78.56	78.01	84.90	89.22	92.10	90.76	89.32
6	87.16	85.46	83.75	81.72	79.91	78.49	77.92	85.19	89.19	91.97	91.04	89.15
7	87.14	85.43	83.66	81.63	79.85	78.40	77.92	85.32	89.34	91.84	91.34	88.99
8	87.07	85.40	83.56	81.50	79.79	78.46	77.94	85.60	89.58	91.73	91.70	88.86
9	87.03	85.29	83.34	81.39	79.88	78.53	77.95	85.81	89.86	91.62	91.95	88.70
10	87.02	85.19	83.19	81.40	79.86	78.44	77.92	85.82	90.08	91.54	91.95	88.57
11	86.94	85.10	83.15	81.37	79.72	78.43	78.07	86.03	90.15	91.47	91.88	88.52
12	86.94	85.01	83.19	81.25	79.61	78.33	78.45	86.11	90.32	91.37	91.76	88.48
13	86.88	84.94	83.20	81.14	79.55	78.22	78.64	86.22	90.58	91.28	91.61	88.47
14	86.85	84.89	83.09	81.04	79.45	78.24	78.63	86.36	90.64	91.18	91.49	88.48
15	86.85	84.81	83.18	80.99	79.46	78.18	78.57	86.33	90.53	91.07	91.42	88.53
16	86.81	84.79	83.29	80.97	79.38	78.14	78.80	86.31	90.53	90.90	91.37	88.86
17	86.73	84.79	83.24	80.93	79.26	78.12	78.92	86.45	90.75	90.80	91.30	89.23
18	86.70	84.78	83.23	80.90	79.23	78.11	79.08	86.70	90.97	90.70	91.22	89.50
19	86.63	84.77	83.18	80.80	79.25	78.13	79.44	86.98	91.13	90.61	91.08	89.48
20	86.53	84.69	83.09	80.76	79.21	78.10	79.58	87.15	91.37	90.56	90.93	89.32
21	86.46	84.59	83.04	80.66	79.22	78.06	79.82	87.32	91.64	90.51	90.80	89.16
22	86.42	84.52	83.02	80.54	79.15	78.01	80.12	87.45	91.90	90.45	90.67	88.95
23	86.34	84.52	82.92	80.55	78.99	77.98	80.34	87.64	92.12	90.43	90.56	88.73
24	86.35	84.41	82.86	80.54	79.00	77.99	80.81	87.67	92.31	90.37	90.46	88.52
25	86.31	84.34	82.75	80.42	79.02	78.00	81.26	87.81	92.52	90.28	90.35	88.37
26	86.27	84.30	82.61	80.27	78.99	77.98	81.67	87.82	92.72	90.20	90.26	88.28
27	86.20	84.23	82.48	80.17	78.87	77.95	82.13	87.88	92.91	90.16	90.20	88.19
28	86.15	84.19	82.40	80.11	78.74	77.95	82.54	88.03	93.08	90.14	90.17	88.13
29	86.11	84.10	82.33	80.07	---	77.97	82.68	88.13	93.07	90.11	90.14	88.07
30	86.00	84.10	82.27	80.09	---	78.00	82.98	88.27	92.91	90.10	90.11	87.97
31	85.91	---	82.17	80.14	---	77.99	---	88.54	---	90.05	90.06	---
MAX	87.60	85.86	84.04	82.12	80.09	78.78	82.98	88.54	93.08	92.73	91.95	89.93
MIN	85.91	84.10	82.17	80.07	78.74	77.95	77.92	83.36	88.81	90.05	89.93	87.97

WTR YR 2002 HIGH 77.92 APR 10 LOW 93.08 JUN 28

360349115100001. Local number, 212 S22 E61 04BCB1; previously published as 212 S22 E61 04BCC 1.

LOCATION.--Lat 36°04'40", long 115°10'14", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Water level recorder since July 1997, hourly

DATUM.--Elevation of land-surface datum is 2,219 ft above NGVD of 1929, from topographic map. Measuring point: Hole in top of casing, 0.8 ft above land-surface datum.

REMARKS.--Annual ground-water network; weekly measurements with steel tape supplied by Office of Nevada State Engineer and U.S. Geological Survey personnel.

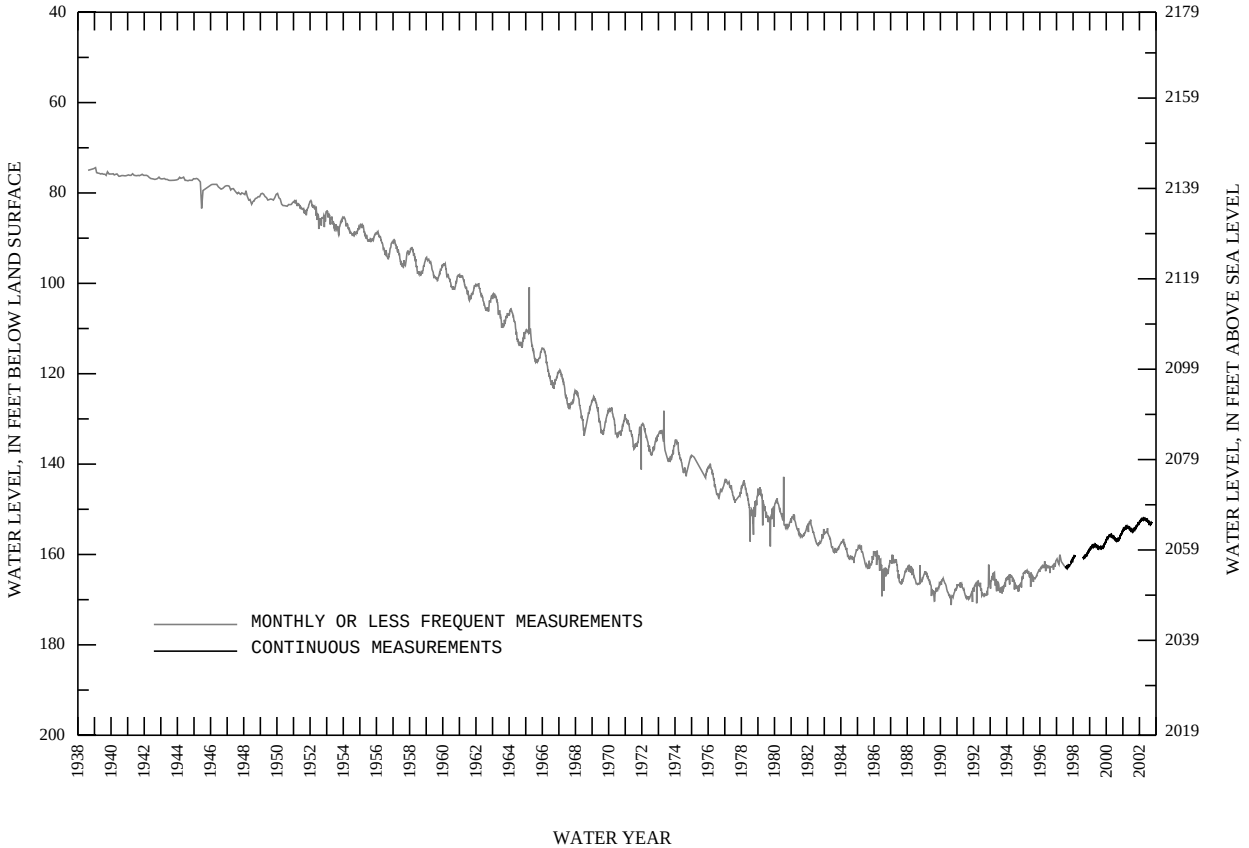
PERIOD OF RECORD.--1938 (unpublished and available in the files of the U.S. Geological Survey); January 1939 through December 1950, monthly; January 1951 through June 1978, continuous (unpublished and available in the files of the Nevada Division of Water Resources); July 1978 to June 1997, weekly; July 1997 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, January 25, 1939; lowest measured, 183.36 ft below land-surface datum, June 15, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	154.19	153.80	153.33	153.00	152.52	152.25	152.20	152.13	152.39	152.54	153.06	153.22
10	154.27	153.75	152.87	152.74	152.71	152.25	152.27	152.06	152.34	152.73	153.09	153.22
15	154.12	153.60	152.97	152.45	152.31	152.12	151.99	152.12	152.41	152.74	153.01	153.15
20	153.90	153.62	152.91	152.63	152.31	152.33	152.20	152.20	152.38	152.80	153.04	153.07
25	154.03	153.28	153.07	152.68	152.31	152.12	152.10	152.29	152.53	152.99	153.23	152.96
EOM	153.83	153.29	152.80	152.64	152.04	152.19	152.02	152.24	152.58	152.97	153.26	153.04

WTR YR 2002 HIGH 151.94 MAR 26 LOW 154.33 OCT 1



Water Level--Levels above LSD (land-surface datum) are listed as negative values.
Water Level Status--D, site was dry (no water-level recorded); P, site was being pumped; R, the same site had been pumped recently.
Water Level Method--G, pressure gage; S, steel tape; T, electric tape; V, calibrated electric tape.
Reporting Agency--NV003, Nevada Division of Water Resources; USGS, U.S. Geological Survey
The following sites are shown in figure 38.

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S17 E58 14BCBA1	362830115270501	300.	3180.	10/22/2001	211.99		S	USGS
				01/15/2002	211.97		S	USGS
				04/29/2002	211.90		S	USGS
212 S17 E59 20BD 1	362750115244001	300.	2950.	10/22/2001	26.83		S	USGS
				01/15/2002	26.76		S	USGS
				04/29/2002	25.74		S	USGS
				07/24/2002	26.63		S	USGS
212 S19 E60 04DAB 2	361939115154801	780.	2454.	10/19/2001	100.30		S	USGS
				01/15/2002	95.98		S	USGS
				05/01/2002	110.80	R	S	USGS
				07/24/2002	114.79		S	USGS
212 S19 E60 09BCC 1	361843115161001	830.	2510.	10/19/2001	185.80		S	USGS
				01/15/2002	180.36		S	USGS
				04/29/2002	182.10		S	USGS
				07/23/2002	187.72		S	USGS
212 S19 E60 09DAD 2	361835115153701	300.	2440.	10/19/2001	162.43		S	USGS
				01/15/2002	112.78		S	USGS
				04/29/2002	146.18		S	USGS
				07/24/2002	164.34		S	USGS
212 S19 E60 12DB 1	361806115122701	240.	2350.	10/15/2001	149.48		S	USGS
				01/15/2002	149.80		S	USGS
				04/29/2002	156.78		S	USGS
				07/23/2002	150.52		S	USGS
212 S19 E60 22BDD 1	361703115150601	400.	2360.	10/19/2001	152.99		S	USGS
				01/16/2002	114.43		S	USGS
				04/29/2002	129.58		S	USGS
				07/23/2002	166.54	R	S	USGS
212 S19 E60 24CBC 1	361655115132101	380.	2315.	10/15/2001	151.54		S	USGS
				01/16/2002	120.21		S	USGS
				04/29/2002	134.04		S	USGS
				07/23/2002	178.79	P	S	USGS
212 S19 E60 29BDD 1	361613115171401	303.	2530.	10/15/2001	206.72		S	USGS
				01/16/2002	202.86		S	USGS
				04/29/2002	205.26		S	USGS
				07/22/2002	208.44		S	USGS
212 S19 E60 29DD 1	361602115165501	350.	2470.	10/15/2001	170.40		S	USGS
				01/16/2002	150.73		S	USGS
				05/01/2002	154.24		S	USGS
				07/22/2002	160.44		S	USGS
212 S19 E60 29DDDB1	361550115164801	400.	2462.	10/15/2001	153.98		S	USGS
				01/16/2002	148.51		S	USGS
				04/29/2002	149.33		S	USGS
				07/22/2002	147.66		S	USGS
212 S19 E60 36CBB 1	361453115130301	330.	2290.	10/15/2001	139.91		S	USGS
				01/16/2002	126.09		S	USGS
				04/29/2002	128.55		S	USGS
				07/22/2002	142.02		S	USGS
212 S19 E61 25CCC 1	361544115132701	275.	2301.	10/15/2001	133.27		S	USGS
				01/16/2002	113.90	R	S	USGS
				04/29/2002	117.92		S	USGS
				07/22/2002	136.16		S	USGS
212 S19 E61 31ADCD1	361514115112901	300.	2200.	10/15/2001	82.20		S	USGS
212 S19 E61 31ADDD1	361516115112301	360.	2185.	10/15/2001	92.30		S	USGS
				02/08/2002	91.15		S	USGS
				04/30/2002	90.23		S	USGS
				07/24/2002	91.16		S	USGS

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S19 E62 35DCDC1	361451115004401	838.	1867.	10/16/2001	77.07		S	USGS
				01/16/2002	77.15		S	USGS
				05/01/2002	76.52		S	USGS
				07/25/2002	84.62		S	USGS
212 S20 E60 04CAD 1	361417115161301	500.	2380.	10/24/2001	315.0		V	USGS
				01/16/2002	298.8		V	USGS
				04/29/2002	291.5		V	USGS
				07/22/2002	305.4		V	USGS
212 S20 E60 13ADAB1	361248115122701	38.	2210.	10/19/2001	17.77		S	USGS
				01/17/2002	18.23		S	USGS
				04/29/2002	18.30		S	USGS
				07/23/2002	17.76		S	USGS
212 S20 E61 01ACCD1	361425115061901	84.	1919.	10/15/2001	59.99		S	USGS
				01/15/2002	59.80		S	USGS
				04/30/2002	59.82		S	USGS
				07/24/2002	60.37		S	USGS
212 S20 E61 04BDCA1	361426115095001	270.	2103.	10/15/2001	70.58		S	USGS
				01/15/2002	69.30		S	USGS
				04/30/2002	72.31		S	USGS
				07/24/2002	72.95		S	USGS
212 S20 E61 04CDDD1	361346115095501	300.	2107.	10/03/2001	102.55		S	NV003
				10/08/2001	102.68		S	NV003
				10/15/2001	102.65		S	NV003
				10/22/2001	102.12		S	NV003
				10/29/2001	102.00		S	NV003
				11/05/2001	102.09		S	NV003
				11/13/2001	101.89		S	NV003
				11/19/2001	102.19		S	NV003
				11/26/2001	101.82		S	NV003
				12/03/2001	101.30		S	NV003
				12/10/2001	101.17		S	NV003
				12/17/2001	101.31		S	NV003
				12/24/2001	101.03		S	NV003
				12/31/2001	102.01		S	NV003
				01/07/2002	100.56		S	NV003
				01/14/2002	100.00		S	NV003
				01/22/2002	99.33		S	NV003
				01/29/2002	99.41		S	NV003
				02/05/2002	99.29		S	NV003
				02/12/2002	99.08		S	NV003
				02/19/2002	98.53		S	NV003
				02/26/2002	98.24		S	NV003
				03/05/2002	97.53		S	NV003
				03/12/2002	97.06		S	NV003
				03/19/2002	96.61		S	NV003
				03/26/2002	96.22		S	NV003
				04/02/2002	95.17		S	NV003
				04/10/2002	94.18		S	NV003
				04/18/2002	94.50		S	NV003
				04/23/2002	95.46		S	NV003
				04/30/2002	97.44		S	NV003
				05/15/2002	96.47		S	NV003
				05/22/2002	96.65		S	NV003
				06/03/2002	96.73		S	NV003
				06/10/2002	96.93		S	NV003
				06/17/2002	98.88		S	NV003
				06/24/2002	99.1		T	NV003
				07/01/2002	102.07		S	NV003
				07/08/2002	99.5		T	NV003
				07/22/2002	102.28		S	NV003
				07/29/2002	100.06		S	NV003
				08/05/2002	101.98		S	NV003

LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S20 E61 04CDDD1	361346115095501	300.	2107.	08/12/2002	99.52		S	NV003
				08/19/2002	100.57		S	NV003
				08/26/2002	100.05		S	NV003
				09/11/2002	100.82		S	NV003
				09/24/2002	99.87		S	NV003
212 S20 E61 06CBDD1	361346115115901	1000.	2211.	10/15/2001	78.37		S	USGS
				01/15/2002	68.53		S	USGS
				04/30/2002	69.42		S	USGS
				07/24/2002	74.32		S	USGS
212 S20 E61 14CCCC1	361212115065901	46.	1910.	10/15/2001	19.78		S	USGS
				01/15/2002	20.05		S	USGS
				04/29/2002	20.14		S	USGS
				07/24/2002	20.49		S	USGS
212 S20 E61 20CC 2	361124115105801	210.	2115.	10/02/2001	30.71		S	NV003
				10/08/2001	30.42		S	NV003
				10/15/2001	29.86		S	NV003
				10/22/2001	29.72		S	NV003
				10/29/2001	30.82		S	NV003
				11/05/2001	28.80		S	NV003
				11/13/2001	28.38		S	NV003
				11/19/2001	28.05		S	NV003
				11/26/2001	27.80		S	NV003
				12/03/2001	27.40		S	NV003
				12/10/2001	27.22		S	NV003
				12/17/2001	27.04		S	NV003
				12/24/2001	26.85		S	NV003
				12/31/2001	26.54		S	NV003
				01/07/2002	26.41		S	NV003
				01/14/2002	26.19		S	NV003
				01/22/2002	25.95		S	NV003
				01/29/2002	25.91		S	NV003
				02/05/2002	25.75		S	NV003
				02/12/2002	25.58		S	NV003
				02/19/2002	26.12		S	NV003
				02/26/2002	25.56		S	NV003
				03/05/2002	25.38		S	NV003
				03/12/2002	25.21		S	NV003
				03/19/2002	25.20		S	NV003
				03/26/2002	25.13		S	NV003
				04/02/2002	25.02		S	NV003
				04/10/2002	24.67		S	NV003
				04/16/2002	24.23		S	NV003
				04/23/2002	24.17		S	NV003
				04/30/2002	24.16		S	NV003
				05/15/2002	24.18		S	NV003
				05/22/2002	24.30		S	NV003
				06/03/2002	24.40		S	NV003
				06/10/2002	24.70		S	NV003
				06/17/2002	25.32		S	NV003
				06/24/2002	26.67		S	NV003
				07/01/2002	27.41		S	NV003
				07/08/2002	28.07		S	NV003
				07/22/2002	29.23		S	NV003
				07/29/2002	30.64		S	NV003
				08/05/2002	30.33		S	NV003
				08/12/2002	30.57		S	NV003
				08/19/2002	31.02		S	NV003
				08/26/2002	31.34		S	NV003
				09/11/2002	31.73		S	NV003
				09/24/2002	31.98		S	NV003

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S20 E61 22BCDD1	361141115085001	1000.	2019.	10/15/2001	17.64		S	USGS
				01/15/2002	19.57		S	USGS
				04/29/2002	15.05		S	USGS
				07/24/2002	17.18		S	USGS
212 S20 E61 29CBB 2	361047115111601	967.	2143.14	10/15/2001	99.64		S	NV003
				10/22/2001	98.29		S	NV003
				10/29/2001	96.47		S	NV003
				11/05/2001	95.69		S	NV003
				11/13/2001	94.14		S	NV003
				11/19/2001	94.45		S	NV003
				11/26/2001	93.09		S	NV003
				12/03/2001	91.60		S	NV003
				12/10/2001	90.67		S	NV003
				12/17/2001	90.35		S	NV003
				12/24/2001	89.44		S	NV003
				12/31/2001	88.77		S	NV003
				01/07/2002	88.08		S	NV003
				01/14/2002	87.38		S	NV003
				01/22/2002	86.80		S	NV003
				01/29/2002	85.68		S	NV003
				02/05/2002	85.48		S	NV003
				02/12/2002	85.33		S	NV003
				02/19/2002	84.71		S	NV003
				02/26/2002	84.99		S	NV003
				03/05/2002	84.59		S	NV003
				03/12/2002	83.85		S	NV003
				03/19/2002	83.80		S	NV003
				03/26/2002	82.94		S	NV003
				04/02/2002	82.81		S	NV003
				04/10/2002	84.63		S	NV003
				04/16/2002	82.40		S	NV003
				04/23/2002	81.76		S	NV003
				04/30/2002	81.79		S	NV003
				05/15/2002	82.43		S	NV003
				05/22/2002	83.56		S	NV003
				06/03/2002	86.87		S	NV003
				06/10/2002	94.92		S	NV003
				06/17/2002	99.32		S	NV003
				06/24/2002	102.24		S	NV003
				07/01/2002	103.27		S	NV003
				07/08/2002	119.93		S	NV003
212 S20 E61 30BDC 1	361053115120501	33.	2190.	10/16/2001	9.71		S	USGS
				01/15/2002	10.17		S	USGS
				04/29/2002	10.31		S	USGS
				07/24/2002	10.97		S	USGS
212 S20 E61 31DCD 1	360937115113401	18.	2155.	10/16/2001	9.98		S	USGS
				01/14/2002	9.97		S	USGS
				04/29/2002	10.58		S	USGS
				07/24/2002	10.83		S	USGS
212 S20 E61 32CDC 1	360941115104801	665.	2095.5	10/17/2001	36.53		S	USGS
				01/14/2002	29.85		S	USGS
				04/29/2002	29.53		S	USGS
				07/23/2002	33.65		S	USGS
212 S20 E61 34CAA 1	360837115095501	22.	2010.	10/16/2001	8.71		S	USGS
				01/14/2002	8.72		S	USGS
				04/29/2002	8.66		S	USGS
				07/23/2002	8.84		S	USGS
212 S20 E62 07DAAC1	361324115045201	315.	1873.	10/02/2001	80.89		S	NV003
				10/08/2001	80.79		S	NV003
				10/15/2001	80.84		S	NV003
				10/22/2001	80.53		S	NV003
				10/29/2001	80.63		S	NV003

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S20 E62 07DAAC1	361324115045201	315.	1873.	11/05/2001	80.35		S	NV003
				11/13/2001	80.30		S	NV003
				11/19/2001	80.23		S	NV003
				11/26/2001	80.13		S	NV003
				12/03/2001	81.05		S	NV003
				12/10/2001	80.30		S	NV003
				12/17/2001	79.93		S	NV003
				12/24/2001	80.46		S	NV003
				12/31/2001	79.72		S	NV003
				01/07/2002	79.76		S	NV003
				01/14/2002	79.45		S	NV003
				01/22/2002	79.35		S	NV003
				01/29/2002	79.45		S	NV003
				02/05/2002	79.42		S	NV003
				02/12/2002	79.28		S	NV003
				02/19/2002	79.33		S	NV003
				02/26/2002	79.45		S	NV003
				03/05/2002	79.17		S	NV003
				03/12/2002	79.17		S	NV003
				03/19/2002	79.48		S	NV003
				03/26/2002	79.22		S	NV003
				04/02/2002	79.44		S	NV003
				04/10/2002	79.45		S	NV003
				04/18/2002	79.68		S	NV003
				04/23/2002	79.20		S	NV003
				04/30/2002	79.12		S	NV003
				05/15/2002	79.14		S	NV003
				05/22/2002	79.17		S	NV003
				06/03/2002	79.2		T	NV003
				06/10/2002	79.3		T	NV003
				06/17/2002	79.2		T	NV003
				06/24/2002	79.32		S	NV003
				07/01/2002	79.45		S	NV003
				07/08/2002	79.32		S	NV003
				07/22/2002	81.48		S	NV003
				07/29/2002	82.69		S	NV003
				08/05/2002	81.85		S	NV003
				08/12/2002	80.15		S	NV003
				08/19/2002	82.86		S	NV003
				08/26/2002	81.81		S	NV003
				09/11/2002	79.85		S	NV003
				09/24/2002	79.59		S	NV003
212 S20 E62 09CCC 1	361258115032101	650.	1827.	10/15/2001	107.52		S	USGS
				01/16/2002	78.25		S	USGS
				05/01/2002	105.16		S	USGS
				07/25/2002	141.68		S	USGS
212 S20 E62 15BBAB1	361233115021501	1000.	1816.	10/16/2001	90.24		S	USGS
				01/16/2002	74.86		S	USGS
				05/01/2002	133.48	P	S	USGS
				07/25/2002	90.86		S	USGS
212 S20 E62 16ACC 1	361241115024801	694.	1811.	10/16/2001	99.07		S	USGS
				01/16/2002	79.14		S	USGS
				05/01/2002	145.96	P	S	USGS
				07/25/2002	102.11		S	USGS
212 S20 E62 19DC 1	361123115050601	300.	1797.	10/02/2001	17.80		S	NV003
				10/08/2001	17.74		S	NV003
				10/15/2001	17.73		S	NV003
				10/22/2001	17.70		S	NV003
				10/29/2001	17.62		S	NV003
				11/05/2001	17.58		S	NV003
				11/13/2001	17.20		S	NV003
				11/19/2001	17.27		S	NV003

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S20 E62 19DC 1	361123115050601	300.	1797.	11/26/2001	17.31		S	NV003
				12/03/2001	17.48		S	NV003
				12/10/2001	17.30		S	NV003
				12/17/2001	17.25		S	NV003
				12/24/2001	17.40		S	NV003
				12/31/2001	17.14		S	NV003
				01/07/2002	16.90		S	NV003
				01/14/2002	17.09		S	NV003
				01/22/2002	17.26		S	NV003
				01/29/2002	17.40		S	NV003
				02/05/2002	17.44		S	NV003
				02/12/2002	16.95		S	NV003
				02/19/2002	17.20		S	NV003
				02/26/2002	17.06		S	NV003
				03/05/2002	16.90		S	NV003
				03/12/2002	16.90		S	NV003
				03/19/2002	17.18		S	NV003
				03/26/2002	16.86		S	NV003
				04/02/2002	16.87		S	NV003
				04/09/2002	16.88		S	NV003
				04/16/2002	17.58		S	NV003
				04/23/2002	17.31		S	NV003
				04/30/2002	17.55		S	NV003
				05/05/2002	17.78		S	NV003
				05/22/2002	17.13		S	NV003
				06/03/2002	17.1		T	NV003
				06/10/2002	17.2		T	NV003
				06/17/2002	17.2		T	NV003
				06/24/2002	17.3		T	NV003
				07/01/2002	17.65		S	NV003
				07/08/2002	17.4		T	NV003
				07/22/2002	17.87		S	NV003
				07/29/2002	17.59		S	NV003
				08/05/2002	17.82		S	NV003
				08/12/2002	17.96		S	NV003
				08/19/2002	17.57		S	NV003
				08/26/2002	17.89		S	NV003
				09/11/2002	17.56		S	NV003
				09/24/2002	17.56		S	NV003
212 S20 E62 21CAB 1	361131115031601	357.	1782.	10/02/2001	47.55		S	NV003
				10/08/2001	47.50		S	NV003
				10/15/2001	47.49		S	NV003
				10/22/2001	47.19		S	NV003
				10/29/2001	46.98		S	NV003
				11/05/2001	46.54		S	NV003
				11/13/2001	46.33		S	NV003
				11/19/2001	46.34		S	NV003
				11/26/2001	45.97		S	NV003
				12/03/2001	45.58		S	NV003
				12/10/2001	45.32		S	NV003
				12/17/2001	45.50		S	NV003
				12/24/2001	45.29		S	NV003
				12/31/2001	45.93		S	NV003
				01/07/2002	45.17		S	NV003
				01/14/2002	44.71		S	NV003
				01/22/2002	44.55		S	NV003
				01/29/2002	44.48		S	NV003
				02/05/2002	44.55		S	NV003
				02/12/2002	44.33		S	NV003
				02/19/2002	44.46		S	NV003
				02/26/2002	44.53		S	NV003
				03/05/2002	44.40		S	NV003

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S20 E62 21CAB 1	361131115031601	357.	1782.	03/12/2002	44.43		S	NV003
				03/19/2002	44.60		S	NV003
				03/26/2002	44.56		S	NV003
				04/02/2002	44.50		S	NV003
				04/09/2002	44.76		S	NV003
				04/16/2002	44.85		S	NV003
				04/23/2002	45.00		S	NV003
				04/30/2002	45.00		S	NV003
				05/15/2002	45.19		S	NV003
				05/22/2002	45.32		S	NV003
				06/03/2002	45.62		S	NV003
				06/10/2002	46.02		S	NV003
				06/17/2002	45.74		S	NV003
				06/24/2002	45.83		S	NV003
				07/01/2002	45.97		S	NV003
				07/08/2002	46.80		S	NV003
				07/22/2002	46.16		S	NV003
				07/29/2002	46.49		S	NV003
				08/05/2002	46.50		S	NV003
				08/13/2002	46.45		S	NV003
				08/19/2002	46.78		S	NV003
				08/26/2002	46.50		S	NV003
				09/11/2002	46.11		S	NV003
				09/24/2002	46.02		S	NV003
212 S20 E62 26BBCC1	361100115011901	320.	1900.	10/15/2001	145.1		V	USGS
				01/14/2002	135.8	P	V	USGS
				05/02/2002	148.35	P	S	USGS
				07/22/2002	118.6		V	USGS
212 S20 E62 29DBCD1	361040115040601	37.	1770.	10/15/2001	22.75		S	USGS
				01/14/2002	22.63		S	USGS
				05/03/2002	22.44		S	USGS
				07/22/2002	22.76		S	USGS
212 S20 E62 34CABB1	360952115020701	100.	1740.	10/18/2001	21.89		S	USGS
				01/17/2002	21.39		S	USGS
				05/01/2002	21.23		S	USGS
				07/22/2002	21.59		S	USGS
212 S21 E60 01DBB 1	360847115125301	190.	2261.	10/15/2001	84.81		S	USGS
				01/17/2002	83.04		S	USGS
				04/29/2002	86.75		S	USGS
				07/22/2002	83.78		S	USGS
212 S21 E60 15BBDC1	360739115152701	680.	2480.	10/15/2001	395.3		V	USGS
				01/17/2002	372.29	R	S	USGS
				05/03/2002	415.6	R	V	USGS
				07/24/2002	367.7		V	USGS
212 S21 E60 16BDDB1	360712115155501	750.	2545.	10/15/2001	440.7		V	USGS
				01/17/2002	439.5		V	USGS
				04/29/2002	437.0		V	USGS
				07/22/2002	435.5		V	USGS
212 S21 E60 35ADAB1	360444115132301	500.	2359.	10/19/2001	289.4		V	USGS
				01/18/2002	283.2		V	USGS
				05/03/2002	280.9		V	USGS
				07/23/2002	282.0		V	USGS
212 S21 E61 01DDBA1	360852115060901	25.	1825.	10/17/2001	7.69		S	USGS
				01/14/2002	7.71		S	USGS
				04/29/2002	7.05		S	USGS
				07/23/2002	7.53		S	USGS
212 S21 E61 03AAAD1	360924115081101	14.	1990.	10/17/2001	7.68		S	USGS
				01/14/2002	7.23		S	USGS
				04/29/2002	7.36		S	USGS
				07/23/2002	7.97		S	USGS
				10/17/2001	7.55		S	USGS
				01/14/2002	7.66		S	USGS

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S21 E61 03AAAD2	360924115081102	40.	1990.	04/29/2002	7.74		S	USGS
				07/23/2002	8.92		S	USGS
212 S21 E61 03ABAB1	360930115083401	25.	2008.	10/16/2001	11.18		S	USGS
				01/14/2002	11.07		S	USGS
				04/29/2002	10.58		S	USGS
				07/23/2002	11.22		S	USGS
212 S21 E61 03ABB 2	360931115083802	807.	2014.	10/16/2001	35.61		S	USGS
				01/14/2002	24.28		S	USGS
				04/29/2002	25.41		S	USGS
				07/23/2002	30.53		S	USGS
212 S21 E61 14ACA 1	360728115072901	750.	1930.	10/15/2001	59.18		S	USGS
				01/15/2002	10.51		S	USGS
				05/05/2002	66.30		S	USGS
				07/22/2002	84.83		S	USGS
212 S21 E61 16ACA 1	360730115093901	1108.	2060.	10/16/2001	110.2		V	USGS
				01/15/2002	75.78		S	USGS
				04/30/2002	107.67		S	USGS
212 S21 E61 19BDCC1	360630115120401	37.	2210.	10/15/2001	18.21		S	USGS
				01/17/2002	16.59		S	USGS
				04/29/2002	17.88		S	USGS
				07/22/2002	19.29		S	USGS
212 S21 E61 22BAAC1	360648115084901	15.	2030.	10/16/2001	10.20		S	USGS
				01/16/2002	10.82		S	USGS
				04/30/2002	10.15		S	USGS
				07/23/2002	9.04		S	USGS
212 S21 E61 22CCC 1	360600115091001	500.	2072.	10/26/2001	34.64		S	USGS
				01/16/2002	29.65		S	USGS
				04/30/2002	33.03		S	USGS
				07/23/2002	41.43		S	USGS
212 S21 E61 24CAD 1	360617115063801	24.	1950.	10/15/2001	15.47		S	USGS
				01/14/2002	15.62		S	USGS
				05/01/2002	15.29		S	USGS
				07/23/2002	16.17		S	USGS
212 S21 E61 24CAD 2	360617115063802	30.	1958.	10/18/2001	15.48		S	USGS
				01/14/2002	15.62		S	USGS
				05/01/2002	15.29		S	USGS
				07/23/2002	16.19		S	USGS
212 S21 E61 26DDBB1	360522115072101	30.	2010.	10/15/2001	15.69		S	USGS
				01/14/2002	17.38		S	USGS
				04/30/2002	18.01		S	USGS
				07/23/2002	17.85		S	USGS
212 S21 E61 28CABB1	360528115094201	93.	2125.	10/02/2001	16.94		S	NV003
				10/08/2001	17.02		S	NV003
				10/15/2001	17.17		S	NV003
				10/16/2001	17.15		S	USGS
				10/22/2001	17.26		S	NV003
				10/29/2001	17.33		S	NV003
				11/05/2001	17.32		S	NV003
				11/13/2001	17.47		S	NV003
				11/19/2001	17.63		S	NV003
				11/26/2001	17.75		S	NV003
				12/03/2001	17.80		S	NV003
				12/10/2001	17.83		S	NV003
				12/17/2001	18.03		S	NV003
				12/24/2001	18.22		S	NV003
				12/31/2001	18.54		S	NV003
				01/07/2002	18.16		S	NV003
				01/14/2002	18.17		S	NV003
				01/15/2002	18.16		S	USGS
				01/22/2002	18.29		S	NV003
				01/29/2002	18.38		S	NV003
				02/05/2002	18.46		S	NV003

Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)				
				Date	(Feet)	Status	Method	Reporting Agency
212 S21 E61 28CABB1	360528115094201	93.	2125.	02/12/2002	18.46		S	NV003
				02/19/2002	18.58		S	NV003
				02/26/2002	18.69		S	NV003
				03/05/2002	18.69		S	NV003
				03/12/2002	18.67		S	NV003
				03/19/2002	18.80		S	NV003
				03/26/2002	18.75		S	NV003
				04/02/2002	18.67		S	NV003
				04/09/2002	18.80		S	NV003
				04/16/2002	18.78		S	NV003
				04/23/2002	18.78		S	NV003
				04/30/2002	18.67		S	NV003
				04/30/2002	18.55		S	USGS
				05/15/2002	18.44		S	NV003
				05/22/2002	18.54		S	NV003
				06/03/2002	18.28		S	NV003
				06/10/2002	18.10		S	NV003
				06/17/2002	17.80		S	NV003
				06/24/2002	17.70		S	NV003
				07/01/2002	18.25		S	NV003
				07/08/2002	17.46		S	NV003
				07/22/2002	17.98		S	NV003
				07/23/2002	17.53		S	USGS
				07/29/2002	17.42		S	NV003
				08/05/2002	18.09		S	NV003
				08/12/2002	18.02		S	NV003
				08/19/2002	17.32		S	NV003
				08/26/2002	18.19		S	NV003
				09/11/2002	17.35		S	NV003
				09/24/2002	17.22		S	NV003
212 S21 E62 08DBDA2	360733115034402	200.	1731.	10/15/2001	13.87		S	USGS
				01/14/2002	13.52		S	USGS
				05/01/2002	13.42		S	USGS
				07/22/2002	17.74	P	S	USGS
212 S21 E62 09ADAD1	360821115025001	49.	1708.	10/15/2001	18.04		S	USGS
				01/14/2002	18.41		S	USGS
				05/01/2002	17.71		S	USGS
				07/22/2002	17.62		S	USGS
212 S21 E62 10ACAA1	360826115020001	715.	1705.	10/15/2001	20.78		S	USGS
				01/14/2002	21.05		S	USGS
				05/01/2002	21.26		S	USGS
				07/22/2002	21.21		S	USGS
212 S21 E62 17DAB 1	360744115050801	11.	1730.	10/15/2001		D		USGS
				01/14/2002	10.48		S	USGS
				05/01/2002	9.79		S	USGS
				07/22/2002	10.75		S	USGS
212 S21 E62 20DDD 1	360601115034401	500.	1720.	10/16/2001	-67.0		G	USGS
				01/14/2002	-70.0		G	USGS
				05/01/2002	-67.5		G	USGS
				07/22/2002	-68.0		G	USGS
212 S21 E63 30AAAA1	360832115060201	80.	1590.	10/15/2001	21.07		S	USGS
				01/14/2002	21.88		S	USGS
				05/01/2002	22.36		S	USGS
				07/22/2002	23.33		S	USGS
212 S22 E60 20CACA1	360047115171401	710.	2810.	10/15/2001	473.1		V	USGS
				01/17/2002	473.2		V	USGS
				05/01/2002	473.2		V	USGS
				07/22/2002	473.4		V	USGS
212 S22 E61 03ADBC2	360401115082301	60.	2086.	10/15/2001	29.80		S	USGS
				01/14/2002	30.43		S	USGS
				05/01/2002	31.37		S	USGS
				07/22/2002	31.34		S	USGS

LAS VEGAS VALLEY--Continued

	Local Well No	Site Identification	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface) Date	(Feet)	Status	Method	Reporting Agency
212	S22 E61 12AAAD1	360321115060001	500.	2020.	10/15/2001	18.41		S	USGS
					01/14/2002	9.34		S	USGS
					05/01/2002	16.41		S	USGS
					07/22/2002	23.73		S	USGS
212	S22 E61 20BAD 1	360112115104301	210.	2287.	10/17/2001	204.3		V	USGS
					01/16/2002	202.6		V	USGS
					04/30/2002	201.85		S	USGS
					07/23/2002	203.0		V	USGS
212	S22 E61 28CDAA1	360007115094801	300.	2265.	10/16/2001	148.8		V	USGS
					01/16/2002	146.7		V	USGS
					04/30/2002	146.25		S	USGS
212	S22 E61 29DCDB1	360002115103801	300.	2275.	10/16/2001	138.88		S	USGS
					01/16/2002	138.00		S	USGS
					04/30/2002	137.93		S	USGS
					07/23/2002	138.73		S	USGS
212	S23 E61 03BCC 1	361136115101401	650.	2375.	10/20/2001	222.88		S	USGS
					01/16/2002	222.66		S	USGS
					04/30/2002	222.72		S	USGS
					07/23/2002	223.18		S	USGS

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10AAC1.

LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

INSTRUMENTATION.--Noon daily graphic recorder.

DATUM.--Elevation of land-surface datum is 2,885 ft above NGVD of 1929, from topographic map. Measuring point: Edge of recorder shelf, 1.2 ft above land-surface datum.

REMARKS.--Measurements supplied by Office of the Nevada State Engineer.

PERIOD OF RECORD.--1944, 1950 through 1970, monthly or intermittent; 1972, 1973, 1975, yearly (unpublished and available in the files of the U.S. Geological Survey); February to August, 1976, monthly; October 1976 to December 1999, weekly; January 2000 to current year, monthly.

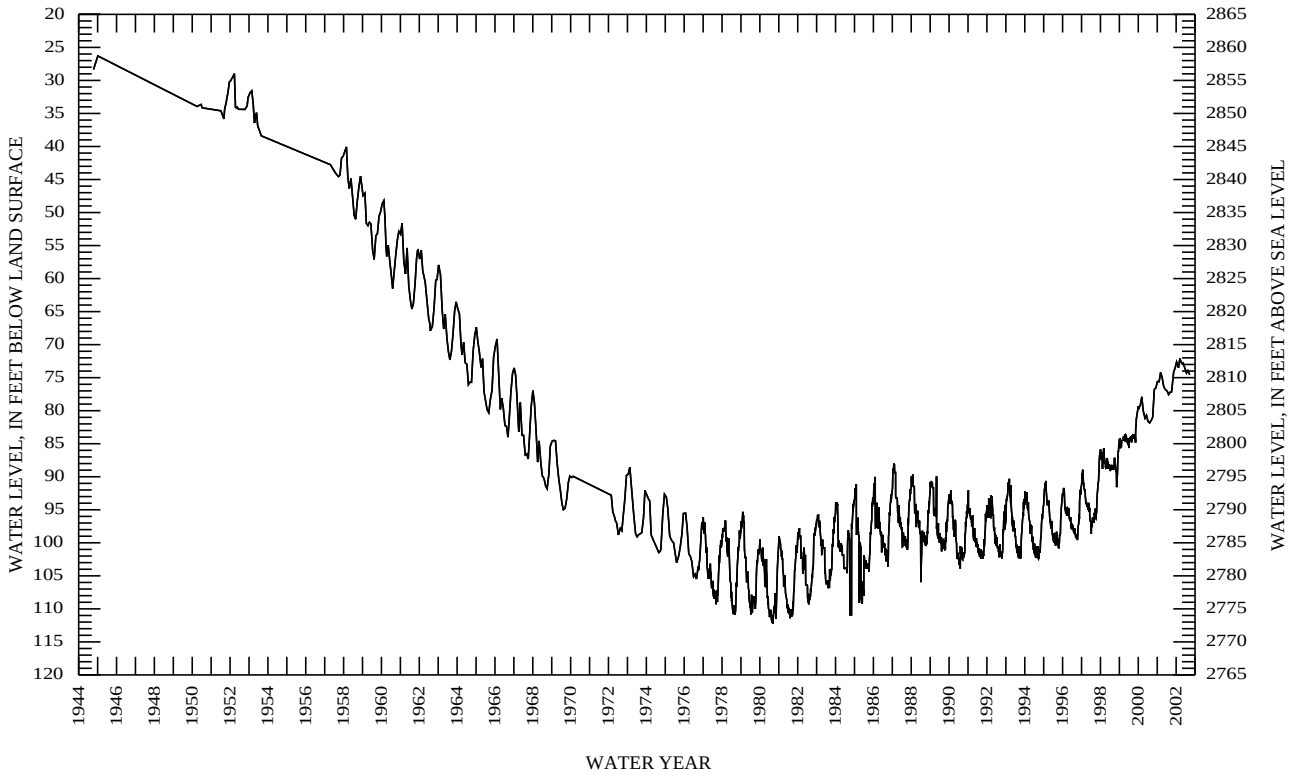
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.29 ft below land-surface datum, January 5, 1945; lowest measured, 112.25 ft below land-surface datum, September 5, 1980.

WATER-LEVEL METHOD: T, electric tape.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

	WATER LEVEL	MS		WATER LEVEL	MS		WATER LEVEL	MS		WATER LEVEL	MS		WATER LEVEL	MS		WATER LEVEL	MS
OCT 05	77.2	T	DEC 13	73.5	T	FEB 15	73.5	T	APR 18	72.9	T	JUN 13	73.4	T	AUG 16	73.9	T
NOV 13	74.2	T	JAN 10	72.6	T	MAR 14	72.11	S	MAY 14	72.8	T	JUL 19	74.3	T	SEP 19	74.6	T

WATER YEAR 2002 HIGHEST 72.11 MAR 14, 2002 LOWEST 77.2 OCT 05, 2001



364650114432001. Local number, 219 S13 E65 28BDAC1

LOCATION.--Lat 36°46'50", long 114°43'20", Hydrologic Unit 15010012, in Clark County
Owner: U.S. Geological Survey.

AQUIFER.-- Carbonate of Paleozoic age.

INSTRUMENTATION.-- Water-level recorder November 2000 to current year.

DATUM.-- Elevation of land-surface datum is 2,185.9 feet above NGVD of 1929, from topographic map. Measuring point is the top lip of the casing 1.3 feet above land-surface.

REMARKS.-- Missing days due to equipment malfunction.

PERIOD OF RECORD.-- February 1985 to October 2000, intermittent; November 2000 to current year, 4 times per hour.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level recorded, 390.21 ft below land surface datum, December 30, 1985; lowest recorded, 394.18 ft below land surface datum, September 19, 2002.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393.62	393.52	393.44	393.20	392.99	393.01	392.84	393.02	393.22	393.69	393.86	394.01
2	393.59	393.54	393.31	393.15	392.94	393.17	392.87	393.07	393.28	393.72	393.83	393.94
3	393.61	393.57	393.22	393.14	393.02	393.15	392.92	393.12	393.37	393.66	393.93	393.92
4	393.53	393.48	393.34	393.22	392.96	392.98	392.98	393.11	393.45	393.64	393.92	393.99
5	393.54	393.47	393.53	393.26	392.93	392.88	392.91	393.07	393.44	393.69	393.87	394.01
6	393.58	393.45	393.50	393.19	392.92	392.80	392.77	393.03	393.32	393.74	393.90	393.91
7	393.63	393.58	393.51	393.13	392.89	392.69	392.89	392.97	393.26	393.74	393.94	393.93
8	393.53	393.63	393.43	392.96	392.92	393.07	393.00	393.22	393.22	393.76	394.00	394.04
9	393.57	393.49	393.08	392.93	393.19	393.14	393.06	393.10	393.42	393.76	393.91	394.07
10	393.67	393.43	393.03	393.19	393.14	392.92	392.97	392.94	393.51	393.78	393.84	393.96
11	393.52	393.43	393.28	393.18	392.86	393.01	392.99	393.23	393.51	393.75	393.83	393.98
12	393.67	393.38	393.48	393.00	392.77	392.83	392.97	393.36	393.52	393.68	393.83	393.94
13	393.50	393.43	393.41	392.92	392.80	392.73	393.03	393.16	393.51	393.68	393.88	393.93
14	393.51	393.50	393.00	392.84	392.79	392.95	392.81	393.00	393.44	393.70	393.84	394.02
15	393.58	393.44	393.34	392.93	392.94	392.89	392.70	393.07	393.49	393.82	393.85	393.97
16	393.55	393.46	393.51	393.06	392.77	392.87	393.07	393.18	393.53	393.80	393.92	393.85
17	393.49	393.46	393.30	393.04	392.58	392.88	392.98	393.22	393.48	393.87	393.91	393.88
18	393.55	393.50	393.31	393.10	392.77	393.02	393.05	393.19	393.43	393.81	393.87	393.98
19	393.49	393.53	393.20	392.94	392.98	393.09	393.01	393.15	393.48	393.74	393.89	394.04
20	393.43	393.41	393.06	393.04	393.01	393.00	393.05	393.19	393.55	393.78	393.91	393.95
21	393.44	393.29	393.19	392.89	393.12	392.90	393.12	393.33	393.60	393.82	393.99	394.02
22	393.47	393.20	393.35	392.84	392.91	392.77	393.06	393.30	393.65	393.79	394.04	394.03
23	393.43	393.39	393.29	393.15	392.62	392.75	393.02	393.25	393.62	393.88	393.99	393.96
24	393.62	393.25	393.34	393.21	392.93	392.87	393.07	393.31	393.61	393.92	394.01	393.92
25	393.61	393.40	393.24	392.95	393.10	393.00	392.94	393.26	393.62	393.82	393.99	393.89
26	393.58	393.50	393.13	392.79	393.03	392.95	392.83	393.24	393.62	393.77	393.91	393.91
27	393.46	393.50	393.09	392.76	392.82	392.89	393.05	393.27	393.59	393.80	393.89	393.83
28	393.50	393.44	393.08	392.82	392.66	392.88	393.16	393.32	393.63	393.87	393.94	393.98
29	393.55	393.24	393.12	392.92	---	392.91	393.00	393.33	393.68	393.83	393.98	394.02
30	393.43	393.41	393.22	393.06	---	392.96	392.96	393.28	393.72	393.83	393.99	393.99
31	393.43	---	393.15	393.18	---	392.92	---	393.28	---	393.88	394.05	---
MAX	393.67	393.63	393.53	393.26	393.19	393.17	393.16	393.36	393.72	393.92	394.05	394.07
MIN	393.43	393.20	393.00	392.76	392.58	392.69	392.70	392.94	393.22	393.64	393.83	393.83

WTR YR 2002 HIGH 392.58 FEB 17 LOW 394.07 SEP 9

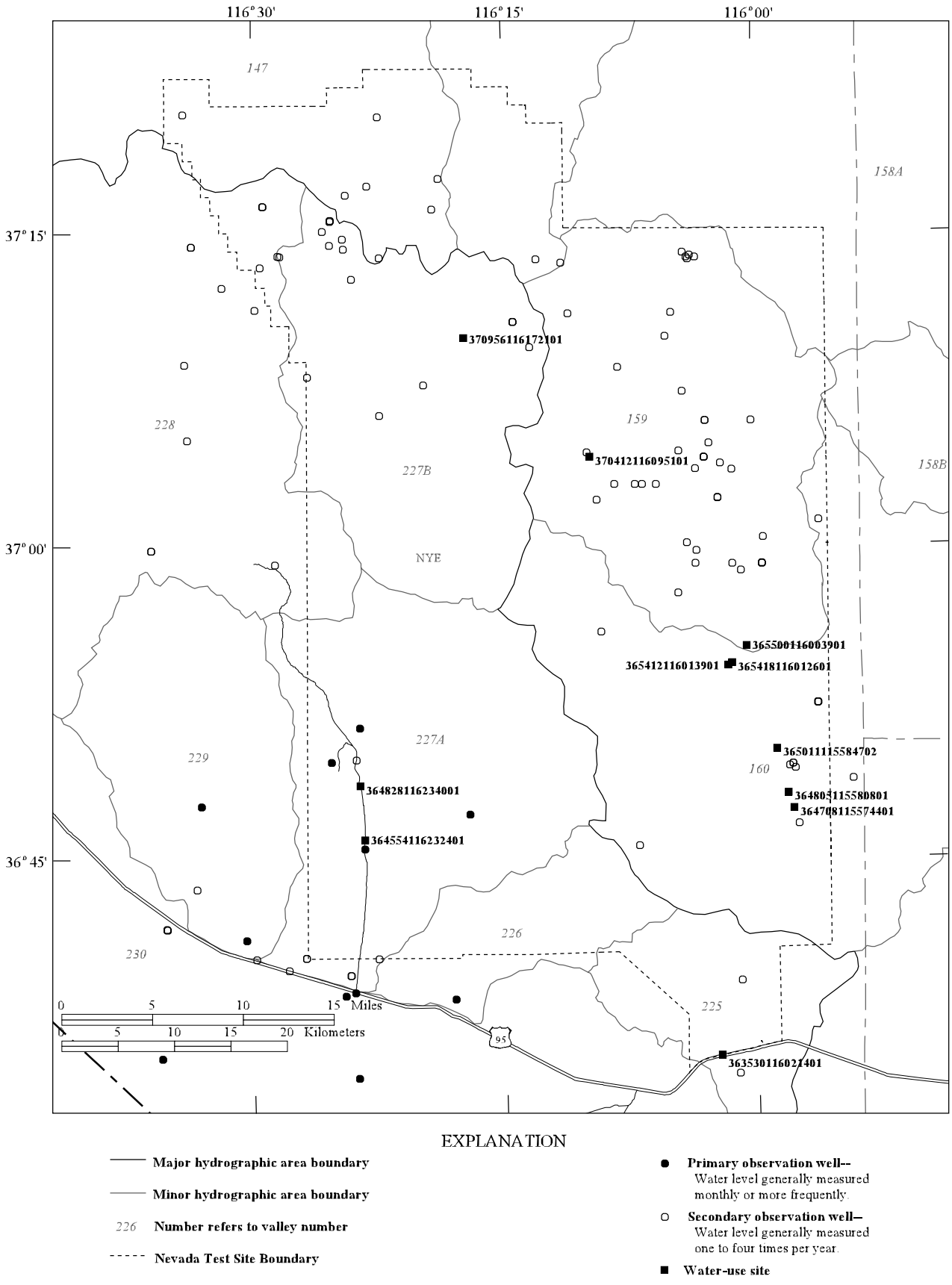


Figure 41. Ground-water sites, at or near Nevada Test Site, southern Nevada.

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT

Periodic water-level measurements are made in areas adjacent to the Nevada Test Site to aid in characterizing the local and regional ground-water flow systems. The measurements are made in cooperation with the U.S. Department of Energy as part of their Environmental Restoration Program. The following data have been collected and reviewed according to quality-assurance requirements specific to the Nevada Test Site. Data are listed by Nevada hydrographic area and then by descending latitude/longitude. The measurement sites are shown in figures 40 and 41.

Site Identification--U.S. Geological Survey site designation.
Land Surface Elevation--Datum is sea level. Value may not represent current elevation.
Well Depth--Datum is land surface. Represents most recent available accessible depth.
Depth of Open Interval--Datum is land surface. Bottom of open interval may be deeper than accessible well depth.
Type of Opening--P, perforated or slotted casing; R, wire-wound; S, screen; X, open (uncased) hole.
Depth to Water--Datum is land surface. Levels above land surface-datum are listed as negative values. Values not representing static water level are noted in "Status" column.
Status--P, site was being pumped; S, nearby site that taps the same aquifer was being pumped; no site status, the reported water-level measurement represents a static level.
Method--A, airline; S, steel tape; V, calibrated electric tape; Z, other.
Accuracy--0, water level accurate to the nearest foot; 1, water level accurate to the nearest tenth of a foot; 2, water level accurate to the nearest one-hundreth of a foot.

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
RALSTON VALLEY (141)														
Ralston Valley Well	375533116580601	37°55'33"	116°58'06"		5219					07/30/2002	232.07		V	2
LIDA VALLEY (144)														
Ralston Well	373320117090601	37°33'20"	117°09'05"		4756	409				10/30/2001	307.87		V	1
										07/31/2002	308.05		V	1
STONE WALL FLAT (145)														
Hammel Mine	373228116472001	37°32'28"	116°47'20"		5540	123				10/31/2001	118.65		V	2
										07/30/2002	118.63		V	2
SARCOBATUS FLAT (146)														
USBLM TPJ-1	370840116510101	37°08'42"	116°51'01"	--/--/52	3991	107				10/30/2001	42.88		V	2
										06/17/2002	42.84		V	2
NDOT TPJ-2	370753116502701	37°07'53"	116°50'27"		4005					10/30/2001	57.56		V	2
										06/17/2002	57.55		V	2
USBLM Springdale	370648116473001	37°06'49"	116°47'32"		4035	117				12/05/2001	93.60		S	2
										03/19/2002	93.54		S	2
										06/17/2002	93.58		S	2
										09/16/2002	93.59		S	2
BC-1	371309117074901	37°13'09"	117°07'49"	04/04/02	4002	410	338.5	410	P	04/08/2002	48.66		S	2
										07/31/2002	48.69		V	2
										09/16/2002	48.71		V	2
										09/17/2002	48.71		S	2
SF-1	371615117053601	37°16'15"	117°05'36"	04/19/02	4021	879	839	879	P	04/22/2002	54.49		S	2
										07/31/2002	54.58		V	2
										09/16/2002	54.58		V	2
										09/17/2002	54.60		S	2
SF-2	371615117053602	37°16'15"	117°05'35"	04/22/02	4021	496	456	496	P	04/22/2002	54.45		S	2
										07/31/2002	54.46		V	2
										09/16/2002	54.45		V	2
GOLD FLAT (147)														
TTR Sulfide Mine	373446116433301	37°34'46"	116°43'33"		6130					10/31/2001	50.93		V	2
										07/30/2002	51.54		V	2
Gold Flat 2a	372543116363502	37°25'43 "	116°36'35"		5230					10/31/2001	233.44		V	2
										07/30/2002	233.52		V	2
CACTUS FLAT (148)														
TTR Sandia 5	374959116431301	37°49'59"	116°43'13"		5334	300				10/31/2001	156.68		V	2
										07/30/2002	156.74		V	2
TTR Sandia 4	374739116453401	37°47'39"	116°45'34"	07/02/59	5468	580	351	466	P	10/31/2001	337.78		V	1
										07/30/2002	337.71		V	1
TTR Sandia 2	374725116452701	37°47'25"	116°45'27"	09/--/56	5478	525	325	485	P	10/31/2001	347.30		V	1
										07/30/2002	347.21		V	1
TTR EH-2 WW	374658116464102	37°46'58"	116°46'41"		5595	580				10/31/2001	455.20		A	0
TTR EH-4	374619116435401	37°46'16"	116°43'59"	11/03/83	5458	490	150	490	P	10/31/2001	315.59		V	1
										07/30/2002	315.51		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Open-ing	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
CACTUS FLAT (148)--Continued														
TTR Antelope Mine 3	373623116434701	37°36'22"	116°43'47"		6362					10/31/2001	26.95		V	2
										07/30/2002	28.93		V	2
TTR Antelope Mine 2	373622116434701	37°36'22"	116°43'46"		6356					10/31/2001	19.74		V	2
										07/30/2002	21.65		V	2
TTR Antelope Mine 1	373622116434601	37°36'20"	116°43'45"		6350					10/31/2001	16.14		V	2
										07/30/2002	17.69		V	2
STONE CABIN VALLEY (149)														
TTR Reeds Ranch Well	375453116450501	37°54'54"	116°45'06"		5384	127				10/31/2001	101.20		V	2
										07/30/2002	101.28		V	2
TTR EH-7 WW	375310116472302	37°53'11"	116°47'25"	09/01/89	5343	660	304	650	R	10/31/2001	108.10		A	0
										07/30/2002	108.10		A	0
TTR EH-6	375139116460001	37°51'40"	116°45'59"	11/17/83	5355	535	0	310	P	10/31/2001	97.98		V	2
										07/30/2002	98.13		V	2
TTR 3BB	375055116460201	37°50'55"	116°46'02"		5358					10/31/2001	109.08		V	2
										07/30/2002	112.92		V	2
TTR 3B WW	375054116460201	37°50'54"	116°46'02"	01/11/85	5360	300	145	284	S	10/31/2001	114.50		A	0
										07/30/2002	118.50		A	0
TTR 3A WW	375045116460201	37°50'46"	116°46'03"	03/04/80	5362	805	537	805	X	10/31/2001	199.25		V	2
										07/30/2002	198.90		V	2
HOT CREEK VALLEY (156)														
UC-1-P-2SR	383806116125951	38°38'06"	116°12'54"	04/06/68	6084	2734	1148	1945	P	10/30/2001	575.69		V	1
							1148	2790	P	07/31/2002	566.88		V	1
HTH-1	383734116124501	38°37'35"	116°12'45"	07/23/67	6011	3695	150	345	P	10/30/2001	536.14		V	1
							355	510	P	07/31/2002	536.26		V	1
							700	850	P					
							950	1150	P					
							1400	1500	P					
							1660	1720	P					
							1850	1980	P					
							2200	2300	P					
							2400	2460	P					
							2640	2710	P					
							2950	3010	P					
							3590	3665	P					
Blue Jay Maintenance	382205116132500	38°22'15"	116°13'34"		5238	238				10/30/2001	40.61		V	2
										07/31/2002	40.76		V	2
FRENCHMAN FLAT (160)														
TW- 3	364830115512601	36°48'30"	115°51'26"	05/11/62	3484	1356	1192	1516	P	01/22/2002	1103.79		V	1
INDIAN SPRINGS VALLEY (161)														
USAF MW-20	363529115392101	36°35'29"	115°39'21"	04/07/88	3093	65	35	65	S	10/10/2001	40.69		V	2
										06/26/2002	40.42		V	2
USAF MW-21	363529115391301	36°35'29"	115°39'13"	04/07/88	3094	75	45	75	S	10/10/2001	42.57		V	2
										06/26/2002	42.37		V	2
USAF MW-22	363508115391701	36°35'08"	115°39'17"	04/06/88	3100	65	35	65	S	10/10/2001	40.01		V	2
										06/26/2002	39.44		V	2
USAF Well 3	363452115405101	36°34'49"	115°40'53"	01/11/85	3130	600	210	305	S	10/10/2001	65.84	S	V	2
							410	445	S	06/26/2002	64.77		V	2
							490	550	S					
							560	600	S					
USAF Well 106-2	363447115404601	36°34'47"	115°40'50"	06/16/83	3085	604	133	418	P	10/10/2001	74.21	P	V	2
										06/26/2002	73.73		V	2
Cactus Springs 3	363422115433701	36°34'22"	115°43'37"		3265	100	83	100	P	11/05/2001	34.06		V	2
										06/19/2002	33.97		V	2
Army 2	363255115515801	36°32'55"	115°51'58"	09/03/58	3799	627	92	658	X	10/10/2001	496.88		V	1
										06/19/2002	496.43		V	1
Army 3	363238115464601	36°32'38"	115°46'46"	11/20/58	3617	826	310	435	P	11/05/2001	285.61		V	2
							453	826	X	06/19/2002	285.51		V	2

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Open-ing	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
PAHRUMP VALLEY (162)														
BLM Stewart Valley Well	361515116100901	36°15'15"	116°10'09	10/27/97	2469	69				12/05/2001	33.49		V	2
										02/07/2002	31.59		V	2
										03/19/2002	30.93		V	2
TIKAPOO VALLEY--SOUTHERN PART (169B)														
USGS DDL-2	365502115134101	36°55'02"	115°13'41"	01/21/89	3300	460	13	460	X	10/17/2001	212.65		V	2
										06/18/2002	212.52		V	2
THREE LAKES VALLEY--SOUTHERN PART (211)														
USAF Well 2278-1	363205115335601	36°32'06"	115°33'57"	01/01/73	3200	353	240	280	P	10/03/2001	115.40		V	2
							300	353	P	12/13/2001	115.46		V	2
										03/18/2002	115.34		V	2
										06/26/2002	115.33		V	2
										09/24/2002	115.77		V	2
USAF Alpha 3	363135115281401	36°31'35"	115°28'14"	07/27/87	3057	210	155	165	S	10/23/2001	135.58		V	2
							185	205	S					
USAF Alpha 2	363045115280201	36°30'45"	115°28'02"	07/25/87	3066	200	165	195	S	10/23/2001	131.50		V	2
LAS VEGAS VALLEY (212)														
USFWS DR-1	363332115244001	36°33'28"	115°24'38"	10/15/88	3579	930	870	930	P	10/17/2001	815.38		V	1
										06/18/2002	815.31		V	1
USFWS SBH-1	363212115240301	36°32'12"	115°24'03"	02/24/87	3475	720	665	695	S	10/10/2001	578.56		V	1
										02/07/2002	578.58		V	1
										03/18/2002	578.58		V	1
										06/18/2002	578.38		V	1
										09/24/2002	578.32		V	1
USGS - Cow Camp	363407115215301	36°34'07"	115°21'53"		4175	1403				10/03/2001	1333.58		V	1
										12/06/2001	1333.86		V	1
										03/18/2002	1333.63		V	1
										06/18/2002	1333.26		V	1
										09/24/2002	1333.40		V	1
USAF Well 2372-1	362830115270501	36°28'30"	115°26'57"		3180	300				10/22/2001	211.99		S	2
										01/15/2002	211.97		S	2
										04/29/2002	211.90		S	2
MERCURY VALLEY (225)														
Army 6A	363437116010801	36°34'37"	116°01'08"	--/--/55	3445	1253	1157	1228	P	11/05/2001	1033.11		V	1
										06/17/2002	1033.07		V	1
OASIS VALLEY (228)														
PM- 3-1	371421116333703	37°14'21"	116°33'37"	02/05/92	5823	2145	1920	2145	P	11/07/2001	1457.46		V	1
(1919-2144 feet)							1872	2192	X	03/05/2002	1457.25		V	1
										07/02/2002	1457.42		V	1
PM- 3-2	371421116333704	37°14'21"	116°33'37"	02/10/92	5823	1667	1442	1667	P	11/07/2001	1455.51		V	1
(1442-1667 feet)							1379	1687	X	03/05/2002	1455.30		V	1
										07/02/2002	1455.46		V	1
ER-EC-1	371223116314701	37°12'23"	116°31'47"	04/20/99	6026	4791	2258	2867	X	12/18/2001	1855.87		V	1
							3291	3776	X	03/05/2002	1855.68		V	1
							4399	4791	X	07/02/2002	1855.83		V	1
							2298	2821	P	09/05/2002	1855.75		V	1
							3348	3760	P					
							4448	4749	P					
ER-EC-6	371120116294802	37°11'20"	116°29'48"	03/22/00	5604	4302	1628	1871	P	12/18/2001	1425.85		V	1
(1581-3820 feet)							2195	2507	P	03/05/2002	1425.74		V	1
							3438	3811	P	07/02/2002	1425.83		V	1
							1581	1948	X	09/04/2002	1425.81		V	1
							2138	2510	X					
							3392	3820	X					
ER-EC-4	370935116375302	37°09'32"	116°37'52"	08/25/00	4760	2365	952	1240	X	10/03/2001	748.85		V	1
(952-2295 feet)							1837	2295	X	12/05/2001	748.90		V	1
							992	1224	P	03/19/2002	748.96		V	1
							1910	2253	P	06/17/2002	748.75		V	1
										09/16/2002	748.67		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Comp-leted	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Open -ing	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
OASIS VALLEY (228)--Continued														
ER-EC-2A	370852116340502	37°08'42"	116°34'03"	08/11/00	4902	2450	1635	2236	X	12/20/2001	754.33		V	1
(1635-2236 feet)							1707	2179	P	03/21/2002	754.51		V	1
										06/13/2002	754.50		V	1
										09/18/2002	754.52		V	1
ER-EC-8	370610116375301	37°06'10"	116°37'53"	07/26/99	4333	1948	632	1050	X	10/03/2001	322.49		V	1
							1388	1558	X	12/20/2001	322.41		V	1
							1626	2000	X	03/21/2002	322.53		V	1
							682	984	P	06/13/2002	322.44		V	1
							1449	1509	P	09/18/2002	322.45		V	1
							1677	1908	P					
ER-EC-5	370504116335201	37°05'04"	116°33'52"	07/11/99	5077	2447	1169	1443	X	12/19/2001	1016.57		V	1
							1835	2146	X	03/20/2002	1016.72		V	1
							2194	2500	X	06/13/2002	1016.62		V	1
							1197	1398	P	09/17/2002	1016.47		V	1
							1892	2094	P					
							2246	2417	P					
ER-OV-01	370504116404901	37°05'04"	116°40'49"	08/04/97	4073	180	150	170	P	12/19/2001	18.17		V	2
										03/21/2002	18.17		V	2
										06/13/2002	18.20		V	2
										09/18/2002	18.19		V	2
ER-OV-06a	370504116404902	37°05'04"	116°40'49"	08/09/97	4073	536	506	526	P	12/19/2001	15.11		V	2
										03/21/2002	15.16		V	2
										06/13/2002	15.17		V	2
										09/18/2002	15.15		V	2
ER-OV-06a2	370504116404903	37°05'04"	116°40'49"	08/11/97	4073	65	56	65	P	12/19/2001	18.65		V	2
										03/21/2002	18.67		V	2
										06/13/2002	18.68		V	2
										09/18/2002	18.70		V	2
ER-OV-05	370246116461901	37°02'46"	116°46'19"	08/02/97	3938	200	170	190	P	12/19/2001	31.99		V	2
										03/19/2002	31.97		V	2
										06/17/2002	31.98		V	2
										09/16/2002	32.04		V	2
ER-OV-02	370210116421501	37°02'10"	116°42'15"	08/20/97	3880	200	170	190	P	12/19/2001	28.56		V	2
										03/20/2002	28.36		V	2
										06/12/2002	28.42		V	2
										09/17/2002	28.70		V	2
ER-OV-03b	370139116390501	37°01'39"	116°39'05"	08/29/97	4233	395	353	373	P	12/19/2001	346.37		V	1
										03/20/2002	346.48		V	1
										06/12/2002	346.36		V	1
										09/17/2002	346.19		V	1
Springdale Upper Well	370131116440801	37°01'31"	116°44'08"		3775	91				12/05/2001	24.45		V	2
										03/20/2002	23.90		V	2
										06/12/2002	23.99		V	2
										09/16/2002	24.50		V	2
ER-OV-03a	365956116421601	36°59'56"	116°42'16"	08/22/97	3844	251	220	240	P	12/19/2001	57.65		V	2
										03/20/2002	57.50		V	2
										06/12/2002	57.52		V	2
										09/17/2002	57.67		V	2
ER-OV-03a2	365956116421602	36°59'56"	116°42'16"	09/12/97	3844	642	602	622	P	12/19/2001	160.10		V	2
										03/20/2002	159.88		V	2
										06/12/2002	159.64		V	2
										09/17/2002	160.00		V	2
ER-OV-03a3	365956116421603	36°59'56"	116°42'16"	09/12/97	3844	133	113	133	P	12/19/2001	57.43		V	2
										03/20/2002	57.29		V	2
										06/12/2002	57.30		V	2
										09/17/2002	57.46		V	2
ER-OV-03c	365948116360401	36°59'48"	116°36'04"	09/18/97	4192	542	512	532	P	12/19/2001	214.09		V	2
										03/20/2002	214.24		V	2
										06/12/2002	214.20		V	2
										09/17/2002	214.13		V	2

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Comp-leted	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval		Type of Open-ing	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method	Accuracy
OASIS VALLEY (228)--Continued													
ER-OV-03c2	365948116360402	36°59'48"	116°36'04"	09/26/97	4192	321	292	312	P	12/19/2001	214.45	V	2
										03/20/2002	214.58	V	2
										06/12/2002	214.52	V	2
										09/17/2002	214.48	V	2
ER-EC-7	365910116284401	36°59'06"	116°28'40"	08/06/99	4805	1304	890	1025	X	12/19/2001	747.43	V	1
							1153	1386	X	03/20/2002	747.60	V	1
							920	979	P	06/12/2002	747.54	V	1
							1215	1304	P	09/17/2002	747.37	V	1
ER-OV-04a	365705116424201	36°57'05"	116°42'42"	10/01/97	3491	151	111	131	P	12/19/2001	23.89	V	2
										03/19/2002	23.62	V	2
										06/12/2002	23.93	V	2
										09/16/2002	24.54	V	2
Beatty Wash Terrace Well	365640116431501	36°56'40"	116°43'15"	10/13/84	3460	39	55	75	P	12/05/2001	20.50	V	2
										03/19/2002	18.99	V	2
										06/12/2002	20.32	V	2
										09/16/2002	21.04	V	2
AMARGOSA DESERT (230)													
Narrows South Well 2	365253116450801	36°52'53"	116°45'08"	10/16/71	3180	120	20	60	P	12/05/2001	18.75	V	2
							60	120	P	03/19/2002	18.21	V	2
										06/12/2002	18.97	V	2
										09/16/2002	19.36	V	2
ASH-B Deep Well	364329116402901	36°43'32"	116°40'30"	12/16/94	2677	1214	1062	1185	P	10/30/2001	313.95	V	1
										06/11/2002	314.03	V	1
ASH-B Shallow Well	364329116402902	36°43'32"	116°40'30"	12/16/94	2677	457	362	428	P	10/30/2001	314.18	V	1
										06/11/2002	314.38	V	1
LWS-A Deep Well	363317116270801	36°33'17"	116°27'08"	12/02/94	2396	1859	1706	1827	P	12/05/2001	122.51	V	2
										03/25/2002	122.41	V	2
										06/11/2002	122.53	V	2
										09/18/2002	122.68	V	2
LWS-A Shallow Well	363317116270802	36°33'17"	116°27'08"	12/02/94	2396	312	212	278	P	12/05/2001	149.08	V	2
										03/25/2002	149.19	V	2
										06/11/2002	149.38	V	2
										09/18/2002	149.54	V	2
MSH-C Deep Well	363008116161201	36°30'08"	116°16'12"	11/23/94	2330	1669	1519	1636	P	12/05/2001	-3.09	S	2
										03/26/2002	-3.10	S	2
										06/11/2002	-3.06	S	2
										09/23/2002	-3.04	S	2
MSH-C Shallow Well	363008116161202	36°30'08"	116°16'12"	11/23/94	2330	347	281	314	P	12/05/2001	-3.06	Z	2
										03/26/2002	-3.16	Z	2
										06/11/2002	-3.19	Z	2
										09/23/2002	-3.12	Z	2
Amargosa Flat Playa Well	362936116153001	36°29'36"	116°15'30"	02/13/95	2322	14.5	9.1	14.1	P	12/05/2001	4.87	V	2
										03/26/2002	5.15	V	2
										06/11/2002	4.61	V	2
										09/23/2002	5.60	V	2
Spring Meadows 9	362425116181001	36°24'34"	116°18'11"	09/26/69	2248	280	82	280	P	11/05/2001	20.27	S	2
										06/11/2002	19.72	S	2
Spring Meadows 11	362521116160801	36°25'21"	116°16'08"	01/01/68	2442	215				02/07/2002	93.64	V	2
										06/11/2002	93.63	V	2
DEATH VALLEY (243)													
Mesquite Flat Well	364445117081001	36°44'45"	117°08'10"	04/26/00	60	13.8	7.8	12.3	P	10/03/2001	7.70	S	2
							12.8	13.6	P				
Mesquite Flat West Well	364419117084401	36°44'19"	117°08'44"	03/08/00	40	9.2	5.8	9.0	P	10/03/2001	3.27	S	2
S-Badwater Deep Well	361252116462901	36°12'52"	116°46'29"	08/27/97	-275	10.8	8.2	10.7	P	10/03/2001	1.79	S	2
S-Badwater Shallow Well	361252116462902	36°12'52"	116°46'29"	08/27/97	-275	5.6	3.3	5.5	P	10/03/2001	1.80	S	2
Eagle Borax ET Well	361146116520401	36°11'46"	116°52'04"	04/10/00	-260	9.1	4.2	8.9	P	10/03/2001	6.20	S	2

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT

Periodic water-level measurements are made throughout the Nevada Test Site to aid in characterizing the local ground-water flow system. The measurements are made in cooperation with the U.S. Department of Energy as part of their Environmental Restoration Program. The following data have been collected and reviewed according to quality-assurance requirements specific to the Nevada Test Site. Data are listed by Nevada Test Site administrative area and then by hole number within each area. The measurement sites are shown in figure 41.

Site Identification--U.S. Geological Survey site designation.
Land Surface Elevation--Datum is sea level. Value may not represent current elevation.
Well Depth--Datum is land surface. Represents most recent available accessible depth.
Depth of Open Interval--Datum is land surface. Bottom of open interval may be deeper than accessible well depth.
Type of Opening--P, perforated or slotted casing; S, screen; X, open (uncased) hole; Z, other.
Depth to Water--Datum is land surface. Water levels represent a composite of all open intervals in well.
Status-- P, site was being pumped; no site status, the reported water-level measurement represents a static level.
Method--V, calibrated electric tape.
Accuracy-- 1, water level accurate to the nearest tenth of a foot.

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval(s) Top (feet)	Depth of Open Interval(s) Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
AREA 1														
UE- 1a	370254116070601	37°02'54"	116°07'06"	02/02/64	4303	562	78	957	X	11/20/2001	545.42		V	1
										07/17/2002	545.35		V	1
UE- 1b	370254116064201	37°02'54"	116°06'42"	02/10/64	4273	701	76	1254	X	11/20/2001	644.92		V	1
										07/17/2002	644.81		V	1
UE- 1c	370253116055201	37°02'53"	116°05'52"	02/11/64	4206	1772	74	1880	X	11/20/2001	1297.72		V	1
										07/17/2002	1297.66		V	1
UE- 1h	370005116040301	37°00'05"	116°04'03"	07/03/68	3995	3228	2134	3358	X	11/26/2001	1555.27		V	1
										07/22/2002	1555.22		V	1
UE- 1L (2284 ft)	370254116082002	37°02'54"	116°08'20"	11/11/77	4454	2284	716	2284	X	11/19/2001	519.01		V	1
										07/17/2002	518.77		V	1
UE- 1q (2600 ft)	370337116033002	37°03'37"	116°03'30"	05/22/92	4082	2600	2459	2600	X	11/28/2001	1655.68		V	1
										07/17/2002	1655.81		V	1
AREA 2														
U - 2gk	370720116041601	37°07'20"	116°04'16"	10/19/92	4241	1809	116	1809	X	11/29/2001	1778.63		V	1
										07/17/2002	1778.16		V	1
UE- 2ce	370831116080701	37°08'31"	116°08'07"	1/23/77	4764	1649	1384	1624	P	11/19/2001	1447.56		V	1
							1624	1650	X	07/16/2002	1447.52		V	1
							1444	1504	P					
							1445	1505	P					
WW- 2 (3422 ft)	370958116051512	37°09'58"	116°05'15"	03/11/62	4470	3422	2700	2950	P	10/11/2001	2053.28		V	1
							3164	3412	P	07/11/2002	2053.60		V	1
AREA 3														
ER- 3-1-2 (shallow)	370116115561302	37°01'09"	115°56'09"	05/20/94	4408	2310	2208	2310	X	12/06/2001	2015.49		V	1
							2260	2290	P	03/12/2002	2015.54		V	1
										07/23/2002	2015.64		V	1
										09/11/2002	2015.54		V	1
ER- 3-2-2 (middle)	370214116021002	37°02'14"	116°02'10"	02/18/94	4008	2655	2588	2636	X	12/26/2001	1605.46		V	1
							2614	2634	P	03/11/2002	1605.31		V	1
										07/15/2002	1605.06		V	1
										09/09/2002	1604.97		V	1
TW- 7	370353116020201	37°03'53"	116°02'02"	06/27/54	4063	2239	1710	1720	P	10/11/2001	1643.02		V	1
							1925	1935	P	07/16/2002	1643.38		V	1
							1970	2014	P					
							1977	2251	P					
U - 3cn 5	370320116012001	37°03'34"	116°01'21"	02/07/66	4012	2830	2832	3030	X	10/11/2001	1620.43		V	1
										07/15/2002	1620.16		V	1
U - 3mi	370020115593001	37°00'21"	115°59'30"	01/20/86	4004	1761	372	1794	X	11/20/2001	1558.25		V	1
									X	07/15/2002	1558.04		V	1
UE- 3e 4-1 (2181 ft)	370411116025910	37°04'11"	116°02'59"	03/19/90	4082	2181	2150	2171	S	10/09/2001	1199.62		V	1
										07/15/2002	1209.03		V	1
UE- 3e 4-2 (1919 ft)	370411116025911	37°04'11"	116°02'59"	03/22/90	4082	1919	1887	1908	S	10/09/2001	1408.05		V	1
										07/16/2002	1413.61		V	1
UE- 3e 4-3 (1661 ft)	370411116025912	37°04'11"	116°02'59"	03/26/90	4082	1661	1619	1640	S	10/09/2001	1548.51		V	1
										07/16/2002	1548.65		V	1
WW- A (1870 ft)	370142116021101	37°02'13"	116°02'10"	09/05/60	4006	1870	1555	1870	X	11/19/2001	1601.41		V	1
							1608	1870	P	07/15/2002	1601.02		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
AREA 4														
TW- D	370418116044501	37°04'28"	116°04'30"	01/08/61	4152	1950	1772	1882	P	11/28/2001	1723.40		V	1
							1900	1950	X	07/16/2002	1723.29		V	1
AREA 5														
ER- 5-3 (3-in, deep)	365223115561702	36°52'23"	115°56'17"	03/16/2000	3337	2212	1995	2235	X	02/21/2002	929.17		V	1
							2090	2190	P	03/12/2002	928.68		V	1
										07/03/2002	928.98		V	1
										09/09/2002	929.12		V	1
ER- 5-3 (3-in, shallow)	365223115561703	36°52'23"	115°56'17"	03/16/2000	3337	1237	98	1080	X	01/14/2002	926.97		V	1
							949	1028	P	02/21/2002	927.77		V	1
										03/12/2002	927.20		V	1
										07/03/2002	927.39		V	1
										09/09/2002	927.45		V	1
ER- 5-3 (8-in string)	365223115561701	36°52'23"	115°56'17"	03/16/2000	3337	2549	1446	1782	X	01/14/2002	927.02		V	1
						2549	2372	2606	X	02/21/2002	927.60		V	1
						2549	1480	1737	P	03/12/2002	927.22		V	1
						2549	2420	2549	P	07/03/2002	927.36		V	1
										09/09/2002	927.41		V	1
ER- 5-3-2	365223115561801	36°52'23"	115°56'18"	03/29/01	3337.4	4908	4774	5683	X	01/14/2002	958.93		V	1
							4774	4906	P	02/21/2002	958.24		V	1
										03/12/2002	957.52		V	1
										07/03/2002	955.10		V	1
										09/09/2002	954.77		V	1
ER- 5-3-3	365223115561704	36°52'23"	115°56'17"	02/06/01	3337.4	1745	1491	1743	P	01/15/2002	927.07		V	1
							1412	1800	X	02/21/2002	927.64		V	1
										03/12/2002	927.15		V	1
										07/03/2002	927.30		V	1
										09/09/2002	927.31		V	1
ER- 5-4 (deep)	364928115574801	36°49'27"	115°57'48"	03/31/01	3127	3438	1770	2113	P	01/15/2002	725.39		V	1
							3136	3350	P	02/21/2002	725.81		V	1
							1715	2192	X	03/12/2002	725.55		V	1
							3014	3732	X					
ER- 5-4 (shallow)	364928115574802	36°49'27"	115°57'48	03/31/01	3127	814	723	813	P	01/15/2002	725.08		V	1
							119	813	X	02/21/2002	725.14		V	1
										03/12/2002	725.10		V	1
RNM-2S	364922115580101	36°49'22"	115°58'01"	04/01/74	3130	1120	1038	1119	P	12/27/2001	723.23		V	1
							1120	1156	X	03/11/2002	723.42		V	1
										07/25/2002	723.39		V	1
										09/10/2002	723.22		V	1
UE- 5n	364915115574101	36°49'15"	115°57'41"	03/01/76	3113	1687	720	730	P	12/27/2001	705.52		V	1
							1523	1687	X	03/11/2002	705.80		V	1
										07/25/2002	705.74		V	1
										09/10/2002	705.62		V	1
WW- 5A	364635115572901	36°46'35"	115°57'29"	03/23/51	3093	910	642	877	P	12/27/2001	710.64		V	1
							877	910	X	03/13/2002	710.45		V	1
										07/25/2002	710.60		V	1
										09/10/2002	710.60		V	1
										09/20/2002	710.19		V	1
AREA 6														
ER- 6-1 (big)	365904115593401	36°59'04"	115°59'34"	07/23/92	3935	2129	1819	2129	X	12/26/2001	1546.86		V	1
										03/11/2002	1546.99		V	1
										07/22/2002	1546.88		V	1
										09/09/2002	1546.95		V	1
ER- 6-1 (small)	365904115593403	36°59'04"	115°59'34"	07/23/92	3935	1790	1435	1542	X	12/26/2001	1474.36		V	1
							1480	1508	P	03/11/2002	1474.10		V	1
										07/22/2002	1473.96		V	1
										09/09/2002	1474.02		V	1
ER- 6-1-1S	365904115593402	36°59'04"	115°59'34"	07/16/93	3934.9	1940	1835	2052	X	07/22/2002	1546.64		V	1
							1814	1940	P	09/09/2002	1546.71		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
AREA 6--Continued														
ER- 6-2	365740116043501	36°57'40"	116°04'35"	08/30/95	4231	2008	1746	2008	X	12/26/2001	1786.51		V	1
(2008 ft)										03/11/2002	1785.76		V	1
										07/23/2002	1786.39		V	1
										09/05/2002	1786.31		V	1
TW- B	365849116002101	36°58'45"	116°00'49"	06/14/61	3929	1670	1432	1452	P	11/19/2001	1504.52		V	1
							1512	1656	P	07/22/2002	1504.34		V	1
UE- 6d	365905116033201	36°59'05"	116°03'32"	05/01/68	3947	3864	2125	3896	X	11/26/2001	1514.46		V	1
										07/23/2002	1514.53		V	1
UE- 6e	365905116012002	36°59'05"	116°01'20"	11/01/73	3936	4208	2090	4209	X	10/11/2001	1510.14		V	1
(2090-2230 FT)										07/22/2002	1509.73		V	1
WW- 3	365942116032901	36°59'43"	116°03'29"	03/05/52	3969	1800	1535	1765	P	10/11/2001	1531.93		V	1
							1575	1800	X	07/23/2002	1532.09		V	1
WW- 4	365418116012601	36°54'18"	116°01'26"	11/18/81	3602	1479	942	1436	P	11/15/2001	837.33		V	1
							1438	1479	X	03/08/2002	837.84		V	1
										04/01/2002	837.17		V	1
										07/25/2002	838.29		V	1
										09/09/2002	844.12	P	V	1
WW- 4A	365412116013901	36°54'12"	116°01'39"	02/21/90	3606	1502	1066	1281	P	11/15/2001	837.89		V	1
							1365	1457	P	03/08/2002	838.38		V	1
							1501	1516	X	03/08/2002	838.27		V	1
										04/01/2002	837.64		V	1
										07/25/2002	849.43	P	V	1
										09/09/2002	849.94	P	V	1
AREA 7														
UE- 4t 1	370556116025405	37°05'56"	116°02'54"	10/24/90	4144	2010	1906	2010	X	10/09/2001	452.07		V	1
(1906-2010 ft)							1963	1992	P	07/16/2002	467.29		V	1
UE- 4t 2	370556116025406	37°05'56"	116°02'54"	10/24/90	4144	1754	1564	1754	X	10/09/2001	1166.67		V	1
(1564-1754 ft)							1664	1724	P	07/16/2002	1164.31		V	1
UE- 7nS	370556116000901	37°05'56"	116°00'09"	07/14/76	4370	2205	1995	2199	P	11/27/2001	1969.45		V	1
							2199	2205	X	07/15/2002	1969.43		V	1
							1960	2020	P					
							1962	2022	P					
AREA 8														
UE-10j	371108116045301	37°11'08"	116°04'53"	5/27/65	4574	2380	55	2380	X	11/07/2001	2160.02		V	1
										07/11/2002	2160.07		V	1
AREA 12														
ER-12-1	371106116110401	37°11'06"	116°11'03"	11/24/92	5817	3434	1641	1709	X	12/18/2001	1526.53		V	1
							1693	1821	P	03/07/2002	1525.92		V	1
							1709	1846	X	07/11/2002	1526.40		V	1
							1757	1761	Z	09/04/2002	1526.34		V	1
U -12s	371342116125102	37°13'42"	116°12'57"	03/15/66	6794	1467	12	1480	X	10/09/2001	917.51		V	1
(1480 ft)										07/11/2002	915.32		V	1
UE-12t 6	371332116112802	37°13'32"	116°11'28"	09/16/88	6907	1461	23	75	X	10/09/2001	835.19		V	1
(1461 ft)							416.0	416.1	P	07/11/2002	835.52		V	1
							466.0	466.1	P					
							490.0	490.1	P					
							540.0	540.1	P					
							570.0	570.1	P					
							620.0	620.1	P					
							674	1461	X					
AREA 14														
UE-14b	365550116091101	36°55'50"	116°09'11"	01/30/84	4353	3680	2051	2060	X	01/07/2002	1666.69		V	1
							2060	3680	X	07/24/2002	1666.54		V	1
AREA 15														
U -15k	371346116032601	37°13'46"	116°03'26"	9/20/79	5168	824	404	824	X	12/11/2001	775.96		V	1
Test Hole										03/07/2002	773.82		V	1
										07/11/2002	770.56		V	1
										09/04/2002	769.17		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
					AREA 16									
UE-16f	370208116092402	37°02'08"	116°09'24"	09/23/77	4652	1409	1293	1479	X	01/07/2002	366.69		V	1
(1479 ft)										07/24/2002	366.71		V	1
					AREA 17									
TW- 1	370929116132311	37°09'29"	116°13'23"	--/--/1980	6156	3694	1910	1950	P	11/06/2001	1462.61		V	1
(3694 ft)							2030	2050	P	07/10/2002	1462.52		V	1
							2100	2160	P					
							2230	2270	P					
							2370	2430	P					
UE-17a	370425116095801	37°04'25"	116°09'58"	09/23/76	4696	1207	745	825	P	12/18/2001	630.89		V	1
							1005	1015	P	03/06/2002	630.34		V	1
							1065	1190	P	07/24/2002	630.40		V	1
							1210	1214	X	09/05/2002	630.09		V	1
					AREA 18									
ER-18-2	370615116222401	37°06'14"	116°22'22"	05/14/99	5437	2143	1351	2500	X	01/08/2002	1211.65		V	1
							1930	1960	P	03/05/2002	1211.52		V	1
							2000	2030	P	07/24/2002	1211.60		V	1
							2071	2101	P	09/11/2002	1211.36		V	1
UE-18r	370806116264001	37°08'05"	116°26'41"	01/24/68	5538	4930	1629	5004	X	07/24/2002	1364.04		V	1
UE-18t	370741116194501	37°07'41"	116°19'45"	10/05/78	5201	2600	1896	2600	X	11/06/2001	914.24		V	1
										07/24/2002	914.35		V	1
					AREA 19									
ER-19-1-1	371043116142101	37°10'43"	116°14'21"	12/17/93	6140	3578	3249	3309	P	12/17/2001	1783.96		V	1
(deep)							3450	3510	P	03/07/2002	1782.94		V	1
							3210	3560	X	07/10/2002	1782.31		V	1
										09/04/2002	1782.57		V	1
ER-19-1-2	371043116142102	37°10'43"	116°14'21"	12/17/94	6140	2720	2700	2720	P	12/17/2001	1180.89		V	1
(middle)							2550	2738	X	01/08/2002	1181.03		V	1
										03/07/2002	1179.36		V	1
										07/10/2002	1163.62		V	1
										09/04/2002	1154.81		V	1
ER-19-1-3	371043116142103	37°10'43"	116°14'21"	12/17/94	6140	1380	1360	1380	P	12/17/2001	1006.15		V	1
(shallow)							1301	1422	X	03/07/2002	1005.76		V	1
										07/10/2002	1006.21		V	1
										09/04/2002	1006.06		V	1
U -19bh	371349116222001	37°13'49"	116°22'20"	06/14/91	6768	2148	70	2148	X	07/10/2002	2087.09		V	1
U -19bj	371736116184701	37°17'36"	116°18'47"	06/02/92	7034	2153	57	2153	X	11/13/2001	2135.72		V	1
										07/10/2002	2135.67		V	1
U -19bk	371714116230301	37°17'14"	116°23'03"	12/11/91	6670	2198	57	2198	X	11/06/2001	1984.55		V	1
									X	07/09/2002	1984.68		V	1
UE-19c WW	371608116191002	37°16'08"	116°19'10"	06/30/75	7033	8489	2421	8489	X	11/07/2001	2339.73		V	1
										07/10/2002	2339.91		V	1
UE-19h	372034116222504	37°20'34"	116°22'25"	01/17/92	6780	2288	2050	2283	P	11/06/2001	2110.92		V	1
										07/09/2002	2111.29		V	1
					AREA 20									
ER-20-1	371321116292301	37°13'21"	116°29'29"	09/09/92	6181	2065	1940	2065	X	12/10/2001	1988.38		V	1
										03/05/2002	1988.83		V	1
										07/02/2002	1989.01		V	1
										09/04/2002	1988.93		V	1
ER-20-2-1	371246116240101	37°12'46"	116°24'01"	08/03/93	6670	2524	2368	2494	P	12/10/2001	2271.81		V	1
							2303	2524	X	03/06/2002	2272.20		V	1
										07/09/2002	2272.74		V	1
										09/03/2002	2272.54		V	1
ER-20-6-1	371537116251501	37°15'37"	116°25'15"	03/15/96	6475	2930	2437	2947	X	12/10/2001	2023.27		V	1
							2548	2753	P	03/06/2002	2023.61		V	1
							2841	2929	P	07/09/2002	2024.01		V	1
										09/03/2002	2023.74		V	1

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Well Depth (feet)	Depth of Open Interval Top (feet)	Depth of Open Interval Bottom (feet)	Type of Opening	Water-Level Measurement Date	Depth to Water (feet)	Status	Method	Accuracy
AREA 20--Continued														
ER-20-6-2	371536116251601	37°15'36"	116°25'16"	04/01/96	6475	2933	2414	2945	X	12/10/2001	2023.82		V	1
							2522	2727	P	03/06/2002	2024.22		V	1
							2815	2903	P	07/09/2002	2024.67		V	1
										09/03/2002	2024.42		V	1
ER-20-6-3	371533116251801	37°15'33"	116°25'18"	04/16/96	6466	2790	2436	2807	X	12/10/2001	2014.90		V	1
							2496	2789	P	03/06/2002	2015.28		V	1
										07/09/2002	2015.69		V	1
										09/03/2002	2015.51		V	1
PM- 1	371649116242102	37°16'49"	116°24'21"	05/03/64	6558	7731	7543	7731	X	10/09/2001	2097.32		V	1
(7731 ft)										07/02/2002	2098.18		V	1
PM- 2	372042116340501	37°20'42"	116°34'05"	05/01/66	5592	8788	2506	2526	P	12/10/2001	858.63		V	1
							2556	2566	P	03/05/2002	858.80		V	1
							2616	2646	P	07/02/2002	858.85		V	1
							2916	2956	P	09/09/2002	858.92		V	1
							3456	3466	P					
							3526	3596	P					
							3896	3906	P					
							4406	4436	P					
							5126	5146	P					
							5256	5296	P					
							5498	8788	X					
U -20 WW	371505116254501	37°15'05"	116°25'45"	07/22/85	6468	3268	2271	3035	P	12/10/2001	2053.09		V	1
(cased)							3199	3268	X	03/06/2002	2053.19		V	1
										07/08/2002	2053.41		V	1
										09/03/2002	2053.23		V	1
U -20bg	371414116242901	37°14'14"	116°24'29"	12/19/90	6567	2200	58	2200	X	12/11/2001	2137.17		V	1
										03/06/2002	2137.38		V	1
										07/08/2002	2137.65		V	1
										09/04/2002	2137.43		V	1
UE-20bh 1	371442116243301	37°14'42"	116°24'33"	09/29/91	6637	2810	1936	2810	X	12/11/2001	2212.63		V	1
										03/06/2002	2212.68		V	1
										07/08/2002	2213.02		V	1
										09/04/2002	2212.91		V	1
*UE-20n 1	371425116251902	37°14'25"	116°25'19"	06/10/87	6461	2834	2282	2834	X	12/10/2001	2040.73		V	1
(2834 ft)										03/06/2002	2041.00		V	1
										07/08/2002	2041.33		V	1
										09/04/2002	2041.13		V	1
AREA 23														
SM-23-1	363905116005801	36°39'05"	116°00'58"		3543	1338	1302	1332	P	12/13/2001	1164.69		V	1
										03/13/2002	1164.08		V	1
										07/29/2002	1164.44		V	1
										09/11/2002	1164.35		V	1
AREA 27														
TW- F	364534116065902	36°45'34"	116°06'59"	06/12/62	4143	3400	3150	3400	X	10/24/2001	1735.61		V	1
(3400 ft)										07/23/2002	1735.57		V	1

GROUND-WATER WITHDRAWALS

NEVADA TEST SITE

Ground-water withdrawals at the Nevada Test Site (NTS) are compiled in cooperation with the U.S. Department of Energy Hydrologic Resources Management Programs. The data are provided by Bechtel Nevada. The following data have been reviewed according to quality-assurance requirements specific to the Nevada Test Site. The following sites are shown in figure 41.

Station Identification	Hole Number	Latitude	Longitude	Ground-Water Withdrawals for Water Year 2002	
				Month	Millions of Gallons
365011115584702	UE- 5c WW	36°50'11"	115°58'47"	October	0.039
				November	0.000
				December	0.000
				January	0.000
				February	0.000
				March	0.000
				April	0.000
				May	0.000
				June	0.000
				July	0.000
				August	0.000
				September	0.000
				Total	0.039
364805115580801	WW- 5B	36°48'05"	115°58'08"	October	2.331
				November	2.435
				December	1.484
				January	2.402
				February	1.610
				March	2.437
				April	2.410
				May	2.711
				June	3.567
				July	3.608
				August	3.069
				September	2.937
				Total	31.000
364708115574401	WW- 5C	36°47'20"	115°57'49"	October	1.431
				November	1.832
				December	1.222
				January	1.813
				February	0.742
				March	1.593
				April	1.631
				May	1.774
				June	2.369
				July	2.552
				August	1.979
				September	1.980
				Total	20.918
365418116012601	WW- 4	36°54'18"	116°01'26"	October	1.997
				November	1.208
				December	0.487
				January	0.881
				February	1.567
				March	0.298
				April	0.553
				May	0.992
				June	1.017
				July	1.092
				August	2.399
				September	2.971
				Total	15.462

GROUND-WATER WITHDRAWALS

NEVADA TEST SITE--Continued

Station Identification	Hole Number	Latitude	Longitude	Ground-Water Withdrawals for Water Year 2002	
				Month	Millions of Gallons
365412116013901	WW- 4A	36°54'12"	116°01'39"	October	3.680
				November	3.387
				December	4.091
				January	5.163
				February	5.863
				March	5.556
				April	4.462
				May	5.147
				June	6.034
				July	7.887
				August	8.394
				September	6.667
				Total	66.331
365500116003901	WW- C-1	36°55'00"	116°00'39"	October	1.376
				November	1.027
				December	0.911
				January	1.067
				February	1.605
				March	0.869
				April	0.948
				May	1.153
				June	0.993
				July	1.734
				August	2.491
				September	2.549
				Total	16.724
370412116095101	UE-16d WW	37°04'12"	116°09'51"	October	4.669
				November	4.147
				December	2.350
				January	3.883
				February	3.242
				March	3.739
				April	3.545
				May	4.263
				June	1.317
				July	5.495
				August	2.135
				September	0.484
				Total	39.269
370956116172101	WW- 8	37°09'56"	116°17'21"	October	1.148
				November	0.972
				December	1.172
				January	0.278
				February	1.089
				March	0.679
				April	1.607
				May	1.855
				June	1.841
				July	3.633
				August	2.879
				September	1.180
				Total	18.332

NEVADA TEST SITE--Continued

Station Identification	Hole Number	Latitude	Longitude	Ground-Water Withdrawals for Water Year 2002	
				Month	Millions of Gallons
363530116021401	Army 1 WW	36°35'30"	116°02'14"	October	4.402
				November	1.844
				December	4.164
				January	4.140
				February	3.776
				March	4.985
				April	4.936
				May	5.376
				June	5.424
				July	6.013
				August	4.937
				September	3.914
				Total	53.912
364554116232401	J -12 WW	36°45'54"	116°23'24"	October	1.732
				November	1.109
				December	0.602
				January	0.991
				February	1.195
				March	1.208
				April	0.606
				May	0.587
				June	0.322
				July	0.454
				August	0.381
				September	0.434
				Total	9.622
364828116234001	J -13 WW	36°48'28"	116°23'40"	October	3.127
				November	2.557
				December	1.595
				January	2.704
				February	2.100
				March	1.360
				April	0.905
				May	0.404
				June	0.300
				July	0.504
				August	0.546
				September	0.347
				Total	16.447

SPRING DISCHARGE

YUCCA MOUNTAIN GROUND-WATER MONITORING PROJECT

Periodic discharge measurements are made throughout the Yucca Mountain area to support environmental and regulatory aspects of the Yucca Mountain Project. The following data have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project. The following sites are shown in figure 40.

Measurement Method--C, current meter; F, Flume; V, volumetric
Abbreviations--GPM, gallons per minute.
Elevation--land-surface datum.

Spring Number	Spring Name	Site Identification	Owner	Elevation (Feet above sea level)	Measurements		
					Date	Discharge (GPM)	Method
230 S17 E50 09AD 1	Fairbanks Spring	362924116203001	U.S. Fish and Wildlife Service	2250.	10/22/2001	1800.	F
					11/19/2001	1700.	F
					12/14/2001	1600.	C
					02/19/2002	1600.	C
					05/08/2002	1500.	C
					09/24/2002	1600.	C
230 S17 E50 23BBCA1	USFWS - Five Spring	362755116190401	U.S. Fish and Wildlife Service	2367.4	10/22/2001	41.	V
					11/07/2001	41.	V
					12/10/2001	42.	V
					01/08/2002	39.	V
					02/07/2002	39.	V
					03/15/2002	38.	V
					04/22/2002	37.	V
					05/07/2002	38.	V
					06/14/2002	36.	V
					07/04/2002	37.	V
					08/07/2002	35.	V
					09/11/2002	40.	V
230 S18 E50 03ADBA1	Crystal Pool	362502116192301	U.S. Fish and Wildlife Service	2195.	10/24/2001	2500.	C
					12/07/2001	3300.	C
					02/19/2002	2800.	C
					05/09/2002	3000.	C
					09/24/2002	2400.	C
230 S18 E51 19ACB 1	Big Spring	362230116162001	U.S. Fish and Wildlife Service	2240.	10/29/2001	830.	C
					12/07/2001	1000.	C
					02/20/2002	1000.	C
					05/09/2002	900.	C
					09/24/2002	1000.	C
243 026N002E13FS01S	Navel Spring	362252116425301	U.S. Borax	2080.	12/05/2001	0.92	V
					02/20/2002	0.92	V
					05/07/2002	0.93	V
					08/06/2002	0.89	V
243 027N001E23BS01S	Texas Spring	362728116501101	National Park Service	400.	12/06/2001	200.	C
					02/20/2002	200.	C
					05/07/2002	200.	C
					08/06/2002	180.	C

YUCCA MOUNTAIN GROUND-WATER MONITORING PROJECT

Periodic water-level measurements are made throughout the Yucca Mountain area to support environmental and regulatory aspects of the Yucca Mountain Project. The following data, which do not include data collected as part of the Site-Characterization Program nor continual records developed from pressure-sensor data, have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project. The following sites are shown in figures 40 and 41.

Site Number--Sites are grouped by hydrographic area and, within each area, are listed in general north-to-south, then west-to-east order.
Elevation--Land surface datum.
Water Level Status--F, site was flowing. Water level or head could not be measured without additional equipment; P, site was being pumped; Z, measurement made in pump discharge column.
Water Level Method--S, steel tape; V, calibrated electric-tape
Water Level Accuracy--1, water level accurate to the nearest tenth of a foot; 2, water level accurate to the nearest one-hundreth of a foot.

Site Number	Local Site Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
CF- 1a	229 S12 E48 07ADD 1	GEXA Well 3	365445116383901	4080.9	700.	10/11/2001	174.28		S	2
						11/09/2001	174.52		S	2
						12/13/2001	174.75		S	2
						01/09/2002	174.86		S	2
						02/06/2002	175.20		S	2
						03/27/2002	175.43		S	2
						04/22/2002	175.78		S	2
						05/02/2002	175.72		S	2
						06/20/2002	176.08		S	2
						07/03/2002	176.23		S	2
						08/26/2002	176.62		S	2
						09/12/2002	176.68		S	2
CF- 2	229 S13 E48 27C 1	USW VH-1	364732116330701	3161.1	2501.	10/23/2001	603.6		V	1
						11/09/2001	603.7		V	1
						12/13/2001	603.7		V	1
						01/17/2002	603.73		S	2
						02/06/2002	603.8		V	1
						03/27/2002	603.6		V	1
						04/22/2002	603.7		V	1
						05/02/2002	603.7		V	1
						06/26/2002	603.5		V	1
						07/03/2002	603.5		V	1
						08/13/2002	603.64		S	2
						09/24/2002	603.5		V	1
CF- 3	229 S14 E48 36DDD 1	Crater Flat 3	364105116302601	2725.6	460.	10/23/2001	331.23		S	2
						11/09/2001	331.22		S	2
						12/13/2001	331.29		S	2
						01/09/2002	331.25		S	2
						02/06/2002	331.33		S	2
						03/25/2002	331.33		S	2
						04/22/2002	331.31		S	2
						05/02/2002	331.29		S	2
						06/20/2002	331.28		S	2
						07/03/2002	331.32		S	2
						08/26/2002	331.22		S	2
						09/24/2002	331.22		S	2
JF- 1	227A S12 E50 33A 1	UE-25 WT 15	365116116233801	3553.8	1360.	10/12/2001	1161.0		V	1
						11/26/2001	1160.8		V	1
						12/11/2001	1160.5		V	1
						01/16/2002	1160.5		S	2
						02/11/2002	1160.8		V	1
						03/21/2002	1160.9		V	1
						04/29/2002	1160.8		V	1
						05/23/2002	1160.8		V	1
						06/19/2002	1160.7		V	1
						07/10/2002	1161.0		V	1
						08/14/2002	1160.44		S	2
						09/23/2002	1161.0		V	1
JF- 2	227A S13 E50 18B 1	UE-25 WT 13	364945116235001	3387.5	1160.	10/12/2001	994.8		V	1
						11/26/2001	994.6		V	1
						12/11/2001	994.6		V	1

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
JF- 2a	227A S13 E49 14A 2	UE-25p 1 PTH (Lwr Intrvl)	364938116252102	3655.5	5923	10/24/2001	1184.7		V	1
						11/26/2001	1184.6		V	1
						12/11/2001	1184.3		V	1
						01/17/2002	1184.4		V	1
						02/11/2002	1184.6		V	1
						03/21/2002	1184.6		V	1
						04/29/2002	1184.5		V	1
						05/23/2002	1184.7		V	1
						06/19/2002	1184.9		V	1
						07/10/2002	1185.3		V	1
						08/08/2002	1185.2		V	1
						09/23/2002	1185.0		V	1
J -13	227A S13 E50 19C 1	J -13 WW	364828116234001	3317.9	3488.	10/12/2001	927.6		V	1
						11/26/2001	927.6		V	1
						12/11/2001	927.2		V	1
						01/17/2002	932.1	P	V	1
						02/11/2002	932.4	P	V	1
						02/22/2002	928.0		V	1
						03/21/2002	927.8		V	1
						04/29/2002	927.6		V	1
						05/23/2002	927.7		V	1
						06/19/2002	927.6		V	1
						07/10/2002	927.8		V	1
						08/08/2002	927.8		V	1
						09/23/2002	927.7		V	1
J -11	227A S13 E51 31B 1	J -11 WW	364706116170601	3442.8	1327.	10/12/2001	1040.4		V	1
						11/26/2001	1040.2		V	1
						12/11/2001	1040.0		V	1
						01/16/2002	1040.2		S	2
						02/11/2002	1040.6		V	1
						03/21/2002	1040.6		V	1
						04/29/2002	1040.5		V	1
						05/23/2002	1040.5		V	1
						06/19/2002	1040.4		V	1
						07/10/2002	1040.6		V	1
						08/14/2002	1040.31		S	2
						09/23/2002	1040.6		V	1
J -12	227A S14 E50 06A 2	J -12 WW	364554116232401	3128.4	1139.	10/12/2001	740.1		V	1
						11/26/2001	740.0		V	1
						12/11/2001	739.8		V	1
						01/16/2002	739.81		S	2
						02/11/2002	739.8		V	1
						03/21/2002	739.9		V	1
						04/29/2002	739.8		V	1
						05/23/2002	739.9		V	1
						06/19/2002	739.8		V	1
						07/10/2002	739.8		V	1
						08/14/2002	739.68		S	2
						09/23/2002	739.8		V	1
JF- 3	227A S14 E50 06D 1	JF- 3 Well	364528116232201	3098.3	1138.	10/12/2001	710.0		V	1
						11/26/2001	710.0		V	1
						12/11/2001	709.7		V	1
						01/15/2002	709.7		V	1
						02/11/2002	709.9		V	1
						03/21/2002	709.8		V	1
						04/29/2002	709.8		V	1
						05/23/2002	709.8		V	1
						06/19/2002	709.7		V	1
						07/10/2002	709.8		V	1
						08/08/2002	709.8		V	1
						09/23/2002	709.8		V	1

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
RV- 1	226 S15 E50 24A 1	TW- 5	363815116175901	3056.0	800.	10/24/2001	677.4		V	1
						11/16/2001	677.4		V	1
						12/10/2001	677.3		V	1
						01/09/2002	677.3		V	1
						02/06/2002	677.4		V	1
						03/25/2002	677.4		V	1
						04/18/2002	677.4		V	1
						05/08/2002	677.5		V	1
						06/14/2002	677.5		V	1
						07/03/2002	677.6		V	1
						08/09/2002	677.7		V	1
						09/13/2002	677.7		V	1
MV- 1	225 S16 E53 05ADB 1	Army 1 WW	363530116021401	3153.3	1953.	10/22/2001	786.2	Z	V	1
						11/26/2001	785.8	Z	V	1
						12/10/2001	785.5	Z	V	1
						01/14/2002	786.0	Z	V	1
						02/11/2002	786.4	Z	V	1
						03/25/2002	786.6	Z	V	1
						04/29/2002	786.6	Z	V	1
						05/13/2002	786.8	Z	V	1
						06/24/2002	787.0	Z	V	1
						07/29/2002	786.8	Z	V	1
						08/26/2002	786.7	Z	V	1
						09/23/2002	786.7	Z	V	1
AD- 1	230 S14 E47 32DA 1	NA-6 Deep Well (BGMW-10)	364141116351401	2627.9	960.	10/23/2001	269.72		S	2
						11/08/2001	269.73		S	2
						12/13/2001	269.83		S	2
						01/09/2002	269.59		S	2
						02/06/2002	269.69		S	2
						03/27/2002	269.75		S	2
						04/22/2002	269.81		S	2
						05/02/2002	269.82		S	2
						06/20/2002	269.84		S	2
						07/03/2002	269.71		S	2
						08/26/2002	269.69		S	2
						09/24/2002	269.77		S	2
AD- 2	230 S15 E49 24ABB 1	Airport Well	363830116241401	2638.8	750.	10/24/2001	325.65		S	2
						11/09/2001	325.35		S	2
						12/13/2001	325.56		S	2
						01/09/2002	325.24		S	2
						02/06/2002	325.37		S	2
						03/25/2002	325.58		S	2
						04/18/2002	325.51		S	2
						05/02/2002	325.52		S	2
						06/14/2002	325.38		S	2
						07/03/2002	325.20		S	2
						08/26/2002	325.43		S	2
						09/12/2002	325.62		S	2
AD- 2a	230 S15 E50 18CCDB1	NDOT - Well	363835116234001	2656.8	495.	10/22/2001	342.20		S	2
						11/07/2001	341.98		S	2
						12/10/2001	341.07		S	2
						01/07/2002	341.93		S	2
						02/06/2002	341.50		S	2
						03/25/2002	341.91		S	2
						04/19/2002	341.93		S	2
						05/02/2002	341.92		S	2
						06/20/2002	342.07		S	2
						07/03/2002	342.58		S	2
						08/26/2002	342.55		S	2
AD- 2a	230 S15 E50 18CCDB1	NDOT - Well	363835116234001	2656.8	495.	09/12/2002	342.58		S	2

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
AD- 3a	230 S16 E48 05CAB 1	Amargosa Desert 3a	363521116352501	2395.3	240.	10/23/2001	133.36		S	2
						11/16/2001	133.36		S	2
						12/13/2001	133.29		S	2
						01/08/2002	133.14		S	2
						02/06/2002	133.18		S	2
						03/25/2002	133.23		S	2
						04/23/2002	133.39		S	2
						05/01/2002	133.35		S	2
						06/18/2002	133.40		S	2
						07/02/2002	133.49		S	2
						08/07/2002	133.64		S	2
						09/11/2002	133.64		S	2
AD- 4a	230 S16 E50 07CABB1	Amargosa Desert 4a	363428116234701	2477.8	269.	10/22/2001	119.2		S	2
						11/07/2001	119.35		S	2
						12/10/2001	119.10		S	2
						01/07/2002	119.13		S	2
						02/07/2002	119.50		S	2
						03/25/2002	119.59		S	2
						04/23/2002	119.62		S	2
						05/08/2002	119.60		S	2
						06/14/2002	119.60		S	2
						07/03/2002	119.63		S	2
						08/07/2002	119.81		S	2
						09/11/2002	119.77		S	2
AD- 5	230 S16 E49 18DCCA1	USBLM Well	363310116294001	2376.4	348.	10/23/2001	129.12		S	2
						11/16/2001	129.16		S	2
						12/13/2001	129.16		S	2
						01/17/2002	129.05		S	2
						02/07/2002	128.97		S	2
						03/25/2002	128.92		S	2
						04/23/2002	129.07		S	2
						05/01/2002	129.09		S	2
						06/18/2002	129.58		S	2
						07/02/2002	129.74		S	2
						08/16/2002	130.23		S	2
						09/11/2002	130.56		S	2
AD- 6	230 S16 E51 27BAA 3	USGS - Tracer Well 3	363213116133800	2402.3	678.	10/22/2001	41.80		S	2
						11/15/2001	41.76		S	2
						12/07/2001	41.90		S	2
						01/15/2002	41.79		S	2
						02/06/2002	41.85		S	2
						03/27/2002	41.81		S	2
						04/18/2002	41.85		S	2
						05/24/2002	41.79		S	2
						06/19/2002	41.69		S	2
						07/03/2002	41.81		S	2
						08/09/2002	41.84		S	2
						09/10/2002	41.77		S	2
AD- 7a	230 S17 E48 01AB 3	Amargosa Desert 7a	363009116302702	2305.0	210.	10/23/2001	81.88		S	2
						11/16/2001	80.89		S	2
						12/13/2001	79.31		S	2
						01/08/2002	78.05		S	2
						02/07/2002	77.01		S	2
						03/25/2002	76.70		S	2
						04/29/2002	78.28		S	2
						04/30/2002	78.41		S	2
						05/01/2002	78.41		S	2
						06/19/2002	81.46		S	2
						07/02/2002	82.02		S	2
						08/07/2002	84.03		S	2
						09/11/2002	84.52		S	2

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
AD- 8	230 S17 E52 08CDB 1	Amargosa Desert 8	362929116085701	2394.3	215.	10/22/2001	35.61		S	2
						11/16/2001	35.34		S	2
						12/10/2001	35.03		S	2
						01/07/2002	34.98		S	2
						02/07/2002	35.23		S	2
						03/25/2002	35.28		S	2
						04/22/2002	35.30		S	2
						05/13/2002	35.33		S	2
						06/19/2002	35.47		S	2
						07/04/2002	35.29		S	2
						08/09/2002	35.46		S	2
						09/11/2002	35.49		S	2
AD- 9	230 S17 E49 15BBBB1	Amargosa Desert 9	362848116264201	2264.8	396.	08/07/2002	82.30		S	2
AD-10	230 026N005E05E001S	USGS NA-9 Deep Well	362525116274301	2190.9	1090.	10/23/2001	13.31		S	2
						11/07/2001	13.28		S	2
						12/13/2001	14.15		S	2
						01/08/2002	13.84		S	2
						02/05/2002	13.74		S	2
						03/19/2002	13.6		S	2
						04/19/2002	13.57		S	2
						05/01/2002	13.54		S	2
						06/14/2002	13.80		S	2
						07/02/2002	13.73		S	2
						08/07/2002	13.68		S	2
						09/11/2002	13.86		S	2
AD-11	230 S19 E50 01BBD 1	USGS GS-03 Deep Well	361954116181201	2351.3	2000.	10/24/2001	210.51		S	2
						11/07/2001	210.62		S	2
						12/10/2001	210.37		S	2
						01/08/2002	210.71		S	2
						02/05/2002	210.74		S	2
						03/19/2002	210.64		S	2
						04/18/2002	210.31		S	2
						05/01/2002	210.18		S	2
						06/18/2002	209.74		S	2
						07/02/2002	209.72		S	2
						08/06/2002	209.49		S	2
						09/10/2002	209.39		S	2
AD-12	230 S18 E51 34CBD 1	USGS GS-01 Deep Well	362014116133901	2430.3	1580.	10/24/2001	80.90		S	2
						11/15/2001	80.94		S	2
						12/10/2001	80.88		S	2
						01/08/2002	80.87		S	2
						02/05/2002	80.90		S	2
						03/15/2002	80.85		S	2
						04/18/2002	80.88		S	2
						05/01/2002	80.89		S	2
						06/18/2002	80.88		S	2
						07/02/2002	80.90		S	2
						08/06/2002	80.94		S	2
						09/10/2002	80.92		S	2
AD-13	230 025N004E21M001S	USGS S-1 Deep Well	361724116324201	2703.2	2000.	10/24/2001	371.59		S	2
						11/15/2001	370.47		S	2
						12/06/2001	370.99		S	2
						01/17/2002	370.85		S	2
						02/05/2002	371.00		S	2
						03/19/2002	370.96		S	2
						04/19/2002	366.79		S	2
						05/01/2002	366.42		S	2
						06/18/2002	365.92		S	2
						07/02/2002	366.12		S	2
						08/15/2002	366.13		S	2
						09/10/2002	365.94		S	2

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
AD-14	230 025N005E14M001S	Death Valley Jct Well	361817116244701	2041.8	225.	10/24/2001	3.02		S	2
						11/07/2001	2.68		S	2
						12/10/2001	2.55		S	2
						01/08/2002	2.49		S	2
						02/05/2002	2.46		S	2
						03/19/2002	2.46		S	2
						04/18/2002	2.34		S	2
						05/01/2002	2.41		S	2
						06/18/2002	2.70		S	2
						07/02/2002	2.88		S	2
						08/06/2002	2.68		S	2
						09/10/2002	2.83		S	2
AM- 1	230 S17 E50 10CDD 1	USFWS Rogers Spring Well	362858116195301	2265.9	202.	10/22/2001	3.61		S	2
						11/15/2001	3.22		S	2
						12/07/2001	3.01		S	2
						01/08/2002	2.76		S	2
						02/07/2002	2.77		S	2
						03/15/2002	2.64		S	2
						04/29/2002	2.72		S	2
						05/07/2002	2.8		S	2
						06/18/2002	3.49		S	2
						07/04/2002	3.77		S	2
						08/07/2002	4.21		S	2
						09/11/2002	4.08		S	2
AM- 2	230 S17 E50 23BBCA1	USFWS - Five Springs Well	362755116190401	2367.4	123.	10/22/2001	0.25	F	S	2
						11/07/2001	0.26	F	S	2
						12/10/2001	0.26	F	S	2
						01/08/2002	0.26	F	S	2
						02/07/2002	0.25	F	S	2
						03/15/2002	0.26	F	S	2
						04/22/2002	0.25	F	S	2
						05/07/2002	0.25	F	S	2
						06/14/2002	0.25	F	S	2
						07/04/2002	0.25	F	S	2
						08/07/2002	0.25	F	S	2
						09/11/2002	0.29	F	S	2
AM- 3	230 S17 E50 33CAAB1	Ash Meadows 3	362555116205301	2157.0	202.	10/22/2001	20.90		S	2
						11/15/2001	20.87		S	2
						12/10/2001	20.74		S	2
						01/08/2002	20.65		S	2
						02/07/2002	20.32		S	2
						03/15/2002	20.01		S	2
						04/23/2002	19.83		S	2
						05/07/2002	19.81		S	2
						06/14/2002	20.08		S	2
						07/04/2002	20.39		S	2
						08/07/2002	21.18		S	2
						09/11/2002	21.54		S	2
AM- 5	230 S17 E50 36DDC 1	USFWS - Devils Hole Well	362529116171100	2404.1	200.	10/23/2001	48.11		S	2
						11/01/2001	48.20		S	2
						12/10/2001	48.11		S	2
						01/08/2002	48.16		S	2
						02/07/2002	48.17		S	2
						03/15/2002	48.20		S	2
						04/18/2002	48.19		S	2
						05/01/2002	48.14		S	2
						06/14/2002	48.19		S	2
						07/04/2002	48.08		S	2
						08/07/2002	48.22		S	2
						09/11/2002	48.16		S	2

Site Number	Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Water Level (Below Land Surface)				
						Date	(Feet)	Status	Method	Accuracy
AM- 6	230 S18 E51 07BBBB1	USFWS Point of Rcks N Wel	362432116165701	2318.8	500.	10/23/2001	21.46		S	2
						11/07/2001	21.41		S	2
						12/10/2001	21.33		S	2
						01/08/2002	21.36		S	2
						02/07/2002	21.36		S	2
						03/15/2002	21.34		S	2
						04/18/2002	21.44		S	2
						05/13/2002	21.46		S	2
						06/14/2002	21.65		S	2
						07/04/2002	21.51		S	2
						08/07/2002	21.61		S	2
						09/11/2002	21.60		S	2
AM- 7	230 S18 E51 07BDB 1	USFWS Point of Rcks S Wel	362417116163600	2333.5	586.	10/23/2001	7.83		S	2
						11/15/2001	7.77		S	2
						12/10/2001	7.60		S	2
						01/08/2002	7.58		S	2
						02/06/2002	7.59		S	2
						03/15/2002	7.58		S	2
						04/18/2002	7.58		S	2
						05/13/2002	7.62		S	2
						06/14/2002	8.60		S	2
						07/04/2002	7.69		S	2
						08/07/2002	7.90		S	2
						09/11/2002	7.85		S	2
DV- 3	243 026N003E21L001S	Travertine Point 1 Well	362230116392901	2728.4	650.	10/24/2001	601.8		V	1
						11/15/2001	601.8		V	1
						12/06/2001	601.9		V	1
						01/14/2002	601.9		V	1
						02/05/2002	601.9		V	1
						03/19/2002	602.0		V	1
						04/19/2002	601.9		V	1
						05/01/2002	601.9		V	1
						06/18/2002	601.9		V	1
						07/02/2002	602.0		V	1
						08/06/2002	602.0		V	1
						09/10/2002	602.0		V	1

Other well data for Amargosa Valley 230 may be found in Nevada Test Site and Adjacent Areas Monitoring Project tables.

Page

A
Access to USGS Water Data 25
Accuracy of the Records 21
Acid neutralizing capacity, definition of 26
Acre-foot, definition of 26
Adenosine triphosphate, definition of 26
Algae,
Fire, definition of 29
Green, definition of 29
Algae, definition Blue-green, definition of
Blue-green, definition of 27
Algal growth potential, definition of 26
Alkalinity, definition of 26
Amargosa Desert Study, definition of 16
Amargosa River at Beatty 135
Amargosa River at Highway 127 near Ca-NV Stateline 419
Amargosa River Basin, crest-stage partial-record stations in 419
Amargosa River,
at Tecopa, Ca 136
Highway 127 near CA-NV Stateline at 419
Amargosa Valley,
Fortymile Wash near 419
ground-water levels in 541
Ambrosetti Pond,
near Genoa 188
Outlet near Genoa 189
Annual 7-day minimum, definition of 26
Annual runoff, definition of 26
Aquifer Vulnerability,
ground-water levels 448–449
Aquifer, water table, definition of 36
Arden, Bird Spring Wash near 418
Aroclor, definition of 26
Arrangement of Records 21
Artificial substrate, definition of 26
Ash Canyon Creek near Carson City 195
Ash mass, definition of 26
Ash Springs Creek below HWY 93 at Ash Springs 62
Ash Springs,
Ash Springs Creek below HWY 93 at 62
Aspect, definition of 26
Aspen Creek above Leviathan Creek, near Markleeville 423
Aspen Creek overburden seep near Markleeville 175
Austin,
Kingston Creek below Cougar Canyon near 132
Smith Creek Valley tributary near 419
B
Bacteria, definition of 26
Enterococcus, definition of 28
Escherichia coli, definition of 28
Fecal coliform, definition of 29
Fecal streptococcal, definition of 29
Total coliform, definition of 35
Baker,
Lehman Creek near 127
Bankfull stage, definition of 26
Base discharge, definition of 26
Base flow, definition of 26
Battle Mountain,
Humboldt River at 242
Rock Creek near 240
Beatty,
Amargosa River at 135
Beaver Dam Wash at Beaver Dam, AZ 54
Beaver Dam,
Beaver Dam Wash at 54
Bed load, definition of 26
Bed material, definition of 26
Bed-load discharge, definition of 26
Belmont,
Mosquito Creek near 131
Pine Creek near 130
Benthic organisms, definition of 26
Big Smokey Valley tributary near Tonopah 419
Big Smoky Valley (Northern Part),
gaging station records in 132–133
Biochemical oxygen demand, definition of 26
Biomass pigment ratio, definition of 27
Biomass, definition of 27
Bird Spring Wash near Arden 418
Black Rock Desert Basin,
gaging station records in 406
Blackwood Creek near Tahoe City 268–270
Blank Samples 25
Blue Diamond,
Cottonwood Valley near 418
Lovell Wash near 419
Oak Creek Wash near 418
Blue Point Springs near Valley of Fire State Park 73
Blue-green algae, definition of 27
Boca Reservoir near Truckee 353
Bottom material, definition of 27
Boulder City,
Las Vegas Wash below Lake Las Vegas near 115
Boulder City, Las Vegas Wash near 116–118
Boulder Creek near Dunphy 241
Bridgeport Reservoir near Bridgeport 143
Bridgeport,
Bridgeport Reservoir near 143
Buckeye Creek near 142
By Day Creek near 422
East Walker River near 144
Little Walker River near 146
Lower Twin Lake near 140
Murphy Creek above East Walker River near 422
Robinson Creek at Twin Lakes Outlet near 141
Upper Twin Lake near 139
Bruneau River at Rowland 411–412
Bruneau River Basin,
gaging station records in 411–414
Brunswick Canyon near New Empire 420
Bryant Creek,
below confluence near Markleeville 176
near Gardnerville 177
Buckeye Creek near Bridgeport 142
Buckeye Wash at East Valley Road near Minden 420
Bulk electrical conductivity, definition of 27
Burke Creek, above mouth near Stateline 302
By Day Creek near Bridgeport 422
C
C-1 Channel near Warm Springs Road at Henderson 112
Caliente, Meadow Valley Wash near 69
California Wash near Moapa 418
Canal No 1 below Little Dam near Schurz 160
Canal No 2 above Little Dam near Schurz 159
Carbonate Rock Study Area, definition of 16
Carbonate-Rock Study Area,
High-Elevation Precipitation Network 454, 543
Primary Observation Wells 544–545
Secondary Observation Well Records in 546
Spring Discharge 542
Carlin,
Humboldt River near 231
Maggie Creek above Maggie Creek Canyon near 234
Maggie Creek at 236
Maggie Creek at Maggie Creek Canyon near 235
Marys Creek at 237
Simon Creek near Highway 766 near 233
Susie Creek at 232

Page

Carson City,
Ash Canyon Creek near 195
Carson River at Deer Run Road near 197
Carson River near 191
Clear Creek near 190
Eagle Valley Creek at 196
Franktown Creek near 378
Kings Canyon Creek near 194
Marlette Creek near 295
Marlette Lake near 294
McCrays Canyon near 423
North Fork Kings Canyon Creek near 193
North Fork Kings Canyon Diversion near 192
Vicee Canyon Creek near Sagebrush Ranch near 423
Voltaire Canyon Creek at 420
Washoe Lake near 379
Carson Desert, Primary Observation Wells in 453
Carson River Basin,
crest-stage partial-record stations in 420
gaging station records in 166–217
water quality records in .179–184, 203–206, 208–211, 214–217
water-quality in 450
Carson River Mercury Study, definition of 16
Carson River,
at Dayton 423
at Deer Run Road near Carson City 197
at Tarzyn Road near Fallon 212
below Lahontan Reservoir near Fallon 201
near Carson City 191
near Fort Churchill 199
near Genoa 187
Cells volume, definition of 27
Cells/volume, definition of 27
Central Region,
crest-stage partial-record stations in 419
Cfs-day, definition of 27
Channel bars, definition of 27
Charleston,
Marys River below Orange Bridge near 219–221
Chemical oxygen demand, definition of 27
Clark,
Truckee River at 388–394
Classification of Records 21
Clear Creek near Carson City 190
Cleve Creek near Ely 128
Clostridium perfringens, definition of 27
Coal Valley,
Primary observation wells 544
Cold 16
Cold Creek
at Mouth 317–318
Cold Creek Monitoring Project area,
ground-water levels in 478–482
quality of ground water in 469–477
Cold Creek Monitoring Project, definition of 16
Cole Creek near Palisade 421
Coleville,
West Walker River below Little Walker River, near 147
West Walker River near 148
Coliphages, definition of 27
Color unit, definition of 27
Colorado River Basin,
crest-stage partial-record stations in 418
gaging station records in 52
Colorado River Main Stem,
gaging station records in 119–126
Colorado River,
below Davis Dam 126
below Hoover Dam 120–124
Comus, Humboldt River at 243
Confined aquifer, definition of 27
Contents, definition of 27
Continuous-record station, definition of 27
Control structure, definition of 27
Control, definition of 27
Corn Creek Spring,
at National Fish and Wildlife Headquarters 75
Cottonwood Valley near Blue Diamond 418
Coyote Spring Valley,
Primary observation wells 545
Crest-Stage Partial-Record Stations 418
Crystal Bay,
First Creek near 278
Incline Creek near 291–293
Third Creek near 281–283
Wood Creek at mouth near 279
Crystal Spring near Hiko 61
Cubic foot per second per square mile, definition of 27
Cubic foot per second, definition of 27
Cubic foot per second-day, definition of 27

D

Daggett Creek near Genoa 186
Daggett Pass,
Edgewood Creek below South Benjamin Drive near 303
Daily mean suspended-sediment concentration, definition of 27
Daily-record station, definition of 27
Data Collection and Computation 18, 23, 24
Data collection platform, definition of 27
Data logger, definition of 28
Data Presentation 19, 23–24
Data table of daily mean values 19
Datum, definition of 28
Davis Dam,
Colorado River below Davis Dam 126
Lake Mohave at 125
Dayton Valley Network, definition of 16
Dayton Valley,
ground-water levels in 457–458
Miscellaneous Precipitation Sites 454–455
Dayton,
Carson River at 423
Sixmile Canyon Creek at Hwy 50 near 420
Deeth,
Marys River above Hot Springs Creek near 222
Marys River below Twin Buttes near 223–225
definition of 17
Desert Creek near Wellington 420
Desert Valley,
Primary observation wells 430
Diatom, definition of 28
Diel, definition of 28
Discharge at partial-record stations and
miscellaneous sites 422
Discharge at partial-record stations and miscellaneous sites 423
Discharge at partial-record stations,
in Amargosa River Basin 419
in Carson River Basin 420, 423
in Central Region 419
in Colorado River Basin 418
in Humboldt River Basin 421
in miscellaneous areas 418–421
in Pyramid and Winnemucca Lakes Basin 421, 423
in Walker River Basin 420, 422
Discharge, definition of 28
Discontinued,
Surface-Water Stations ..... xiii–xiv
Surface-Water-Quality .....xvii–xxiv
Surface-Water-Quality Continuous Record Stations . xxv–xxvi
Dissolved oxygen, definition of 28
Dissolved, definition of 28

Page

Dissolved-solids concentration, definition of 28
Diversity index, definition of 28
Dixie Valley tributary near Eastgate 419
Donner Creek,
at Donner Lake near Truckee 334
at Highway 89, near Truckee 335
Donner Lake near Truckee 332–333
Douglas County Network, definition of 17
Douglas County,
ground-water levels 463
quality of ground water in 460–462,498–525
Downstream Order System 17
Drainage area, definition of 28
Drainage basin, definition of 28
Dresslerville, East Fork Carson River near 179–184
Dry mass, definition of 28
Dry weight, definition of 28
Duck Creek at Broadbent Boulevard at East Las Vegas 108
Dunphy,
Boulder Creek near 241
Humboldt River at Old U.S. Highway 40 Bridge at 239

E

Eagle Rock Creek near Stateline 305–306
Eagle Valley Creek at Carson City 196
East Adobe Creek near Elko 421
East Fork Carson River,
below Markleeville Creek near Markleeville 167
near Dresslerville 179–184
near Gardnerville 178
East Las Vegas,
Duck Creek at Broadbent Boulevard at 108
Las Vegas Wasteway near 107
East Walker River,
above Strosnider Ditch near Mason 145
near Bridgeport 144
Eastgate, Dixie Valley tributary near 419
Edgewood Creek,
at Lake Tahoe near Stateline 310
at Palisades Drive near Kingsbury 304
at Stateline 307–309
below South Benjamin Drive near Daggett Pass 303
Elko,
East Adobe Creek near 421
Humboldt River near 228
South Fork Humboldt River,
above Dixie Creek, near 230
above Tenmile Creek near 229
Ely,
Cleve Creek near 128
Steptoe Creek near 129
Embeddedness, definition of 28
Enterococcus bacteria, definition of 28
EPT Index, definition of 28
Escherichia coli (E. coli), definition of 28
Estimated (E) concentration value, definition of 28
Euglenoids, definition of 29
Explanation of the records 17
Extractable organic halides, definition of 29

F

Fallon Basalt Aquifer Monitoring Project,
water quality records in 464–466, 537
Fallon Basalt Aquifer Monitoring, definition of 17
Fallon,
Carson River at Tarzyn Road near 212
Carson River below Lahontan Reservoir near 201
ground-water levels in 531
quality of ground water in 464–466, 526, 537
Stillwater Point Reservoir Diversion Canal near 202–206
Fallon, Lahontan Reservoir near 200
Farad,
Truckee River at 364–365
Fecal coliform bacteria, definition of 29
Fecal streptococcal bacteria, definition of 29
Fire algae, definition of 29
First Creek,
near Crystal Bay 278
Flamingo Wash,
at Decatur Boulevard at Las Vegas 81
at Nellis Boulevard near Las Vegas 82
Floriston,
Gray Creek near 357–363
Flow, definition of 28
Flow-duration percentiles, definition of 29
Fort Churchill,
Carson River near 199
Fortymile Wash near Amargosa Valley 419
Franktown Creek near Carson City 378

G

Gage datum, definition of 29
Gage height, definition of 29
Gage values, definition of 29
Gaging station, definition of 29
Galena Creek at Galena State Park 381
Galena State Park, Galena Creek at 381
Gardnerville,
Bryant Creek near 177
East Fork Carson River near 178
Indian Creek above Mouth near 420
Gas chromatography/flame ionization detector, definition of 29
General Creek near Meeks Bay 265–267
Genoa Canyon Creek at Genoa 420
Genoa,
Ambrosetti Pond near 188
Ambrosetti Pond Outlet near 189
Carson River near 187
Daggett Creek near 186
Genoa Canyon Creek at 420
James Canyon Creek near 423
Water Canyon Creek near 423
Geomorphic channel units, definition of 29
Glenbrook Creek,
at Glenbrook 296–298
Glenbrook,
Glenbrook Creek at 296–298
Logan House Creek near 300–301
North Logan House Creek at Highway 50 near 299
Glendale,
Muddy River near 71
Weiser Wash near 418
Golconda,
Pole Creek near 421
Gold Creek, Owyhee River near 415
Gowan Detention Basin outlet near North Las Vegas 76
Gray Creek near Floriston 357–363
Green algae, definition of 29
Ground Water 6
Ground-water levels, data
Aquifer Vulnerability Project 448–449
at/near Nevada Test Site 571, 576–580
Cold Creek Monitoring Project 478–482
in Amargosa Valley 541
in Carbonate-Rock Study Area 546
in Dayton Valley 457–458
in Douglas County 463
in Fallon area 531
in Lake Tahoe Basin 478–482, 492–495
in Las Vegas Valley 558–567
in Ruby Valley 538–539
in Trout Creek Watershed 492–495

Page

Las Vegas Subsidance Study 549–551
Newlands Shallow Aquifer Monitoring Project 531
Primary Observation Wells 435–438
Primary observation wells,
in Carson Desert 453
in Coal Valley 544
in Coyote Spring Valley 545
in Desert Valley 430
in Hidden Valley 434
in Las Vegas Valley 552–557
in Pahrump Valley 568
in Paradise Valley 431
in Steptoe Valley 432–433
in Upper Moapa Valley 569
Las Vegas Subsidance Study 549–551
Secondary Observation Wells 440–446
Yucca Mountain Ground-water Monitoring Project ...585–591
Ground-water quality, data
in Cold Creek Monitoring Project Area 469–477
in Douglas County 460–462, 498–525
in Fallon area 451, 464–466, 537
Ground-water withdrawals, data
at/near Neavada Test Site 581–583
Gypsum Wash,
at Northshore Road nr Las Vegas Bay, NV 418

H

Habitat quality index, definition of 29
Habitat, definition of 29
Halleck,
North Fork Humboldt River at Devils Gate near 227
Hamilton, Illipah Creek near 419
Hardness, definition of 29
Hawthorne, Walker Lake near 138
Hazen, Truckee Canal near 396
Henderson,
C-1 Channel near Warm Springs Road at 112
Las Vegas Wash at Pabco Road near 110–111
Las Vegas Wash below Lake Las Vegas below 114
Henderson, Las Vegas Wash at Pabco Road near 109
Hidden Valley,
ground water levels in 434
High tide, definition of 29
High-Elevation Precipitation Network
in Carbonate-Rock study area 454, 543
High-Elevation Precipitation Network,
in Carlin Trend 455
Hiko, Crystal Spring near 61
Hilsenhoff's Biotic Index, definition of 29
Hoover Dam,
Colorado River below 120–124
Lake Mead at 119
Hudson, West Walker River near 151
Humboldt River Basin,
crest-stage partial-record stations in 421
gaging station records in 218–250
water quality records in 220–221, 224–225
water-quality in 447, 467
Humboldt River,
at Battle Mountain 242
at Comus 243
at Old U.S. Highway 40 Bridge at Dunphy 239
at Palisade 238
near Carlin 231
near Elko 228
near Imlay 247
near Rye Patch 249–250
North Fork at Devils Gate near Halleck 227
Hydrographic Areas, State of Nevada 428
Hydrologic Benchmark Network 16
Hydrologic index stations, definition of 29
Hydrologic unit, definition of 30

I

Identifying Estimated Daily Discharge 21
Illipah Creek near Hamilton 419
Imlay, Humboldt River near 247
Inch, definition of 30
Incline Creek,
above Tyrol Village near Incline Village 284–286
at Highway 28 at Incline Village 287–289
near Crystal Bay 291–293
Tributary at Country Club Drive near Incline Village 290
Incline Village,
Incline Creek above Tyrol Village near 284–286
Incline Creek at Highway 28 at 287–289
Incline Creek Tributary at Country Club Drive near 290
Incline Villiage,
Rosewood Creek below Highway 28 at 280
Independence Creek near Truckee 344
Independence Lake near Truckee 343
Indian Creek above Mouth,
near Gardnerville 420
Instantaneous discharge, definition of 30
Introduction 1
Island, definition of 30

J

James Canyon Creek near Genoa 423
Jarbidge River below Jarbidge 413–414
Jobs Canyon Creek near Minden 423
Johnson Wash at Fremont Drive near Minden 420
Jumbo Wash near New Washoe City 421

K

Kings Canyon Creek near Carson City 194
Kingsbury,
Edgewood Creek at Palisades Drive near 304
Kingston Creek below Cougar Canyon near Austin 132

L

Laboratory Measurements 22
Laboratory reporting level, definition of 30
Lahontan Reservoir,
near Fallon 200
Lake Las Vegas Inlet, Las Vegas Wash overflow at 113
Lake Mead at Hoover Dam 119
Lake Mohave at Davis Dam 125
Lake Tahoe at Tahoe City 326
Lake Tahoe Basin
Quality of Surface Water 485–488
Lake Tahoe Basin study, definition of 17
Lake Tahoe Basin, quality of ground water in 483–484, 489–490, 496
Lake Tahoe Interagency Monitoring Program, definition of 17
Lakes and reservoirs
Boca Reservoir near Truckee 353
Bridgeport Reservoir near Bridgeport 143
Donner Lake near Truckee 332, 333
Independence Lake near Truckee 343
Lahontan Reservoir near Fallon 200
Lake Mead at Hoover Dam 119
Lake Mohave at Davis Dam 125
Lake Tahoe at Tahoe City 326
Little Washoe Lake near Steamboat 380
Lower Twin Lake near Bridgeport 140
Marlette Lake near Carson City 294
Prosser Creek Reservoir near Truckee 340
Pyramid Lake near Nixon 252
Rye Patch Reservoir near Rye Patch 248
Stampede Reservoir near Truckee 350
Topaz Lake near Topaz 149
Upper Twin Lake near Bridgeport 139
Walker Lake near Hawthorne 138
Washoe Lake near Carson City 379
Weber Reservoir near Schurz 158

Page

Lamoille Creek near Lamoille 226
Land-surface datum, definition of 30
Las Vegas Bay,
Gypsum Wash at Northshore Road nr 418
Las Vegas Creek at Meadows Detention Basin at Las Vegas 77
Las Vegas Subsidance Study,
Ground water levels in 549–551
Las Vegas Valley,
gaging station records in 75–109, 112–115
ground water levels in 552–567
ground-water levels in 567
water quality records in 84–105, 110–111, 116–118
Las Vegas Wash,
at Pabco Road near Henderson 109–111
at Vegas Valley Drive near Las Vegas 106
below Flamingo Wash Confluence near Las Vegas 83–105
below Lake Las Vegas below Henderson 114
below Lake Las Vegas near Boulder City 115
near Boulder City 116–118
near Sahara Avenue near Las Vegas 78
overflow at Lake Las Vegas Inlet 113
Las Vegas Wasteway near East Las Vegas 107
Las Vegas,
Flamingo Wash at Decatur Boulevard at 81
Flamingo Wash,
at Nellis Boulevard near 82
Las Vegas Creek at Meadows Detention Basin at 77
Las Vegas Wash,
at Vegas Valley Drive near 106
below Flamingo Wash Confluence near 83–105
near Sahara Avenue near 78
Sloan Channel at Charleston Boulevard near 80
Latent heat flux, definition of 30
Latitude-Longitude System 17
Lehman Creek near Baker 127
Leviathan Creek,
above Aspen Creek near Markleeville 174
above Leviathan Mine near Markleeville 168
channel underdrain near Markleeville 172
Leviathan Mine,
Adit Drain near Markleeville 169
pit drain near Markleeville 170
pond 1 near Markleeville 171
pond 4 near Markleeville 173
Light-attenuation coefficient, definition of 30
Lipid, definition of 30
Little Humboldt River near Paradise Valley 244–245
Little Truckee River
above Boca Reservoir, near Truckee 351–352
below Boca Dam near Truckee 354–355
Little Walker River near Bridgeport 146
Little Washoe Lake near Steamboat 380
Littlefield,
Virgin River above The Narrows near 52
Virgin River above the Narrows near Littlefield 53
Virgin River at 55–58
Local Site Numbers 18
Lockwood,
Long Valley Canyon Creek near 421
Logan House Creek near Glenbrook 300–301
Long Valley Canyon Creek near Lockwood 421
Long-term method detection level, definition of 30
Lovell Wash near Blue Diamond 419
Low flow, 7-day 10-year, definition of 33
Low tide, definition of 30
Lower Twin Lake near Bridgeport 140
Low-Flow investigation,
of the Upper Truckee River and Trout Creek and Selected Tributaries 425
Lund, White River near 60

M

Macrophytes, definition of 30
Maggie Creek
above Maggie Creek Canyon near Carlin 234
at Carlin 236
at Maggie Creek Canyon near Carlin 235
Mahogany Creek near Summit Lake 407
Marble Bluff Dam,
Truckee River at 423
Markleeville,
Aspen Creek overburden seep near 175
Bryant Creek below confluence near 176
East Fork Carson River below Markleeville Creek, near . . . 167
Leviathan Creek above Aspen Creek, near 174
Leviathan Creek above Leviathan Mine near 168
Leviathan Creek channel underdrain near 172
Leviathan Mine Adit Drain near 169
Leviathan Mine pit drain near 170
Leviathan Mine pond 1 near 171
Leviathan Mine Pond 4 near 173
Marlette Creek near Carson City 295
Marlette Lake near Carson City 294
Martin Creek near Paradise Valley 246
Martis Creek near Truckee 336–339
Marys Creek at Carlin 237
Marys River
below Orange Bridge near Charleston 220–221
Marys River,
above Hot Springs Creek, near Deeth 222
below Orange Bridge near Charleston 219
below Twin Buttes near Deeth 223–225
Mason,
East Walker River above Strosnider Ditch near 145
McCrays Canyon near Carson City 423
McDermitt Creek near McDermitt 406
McDermitt, McDermitt Creek near 406
Meadow Valley Wash near Caliente 69–70
Mean concentration of suspended sediment, definition of 30
Mean discharge, definition of 30
Mean high tide, definition of 30
Mean low tide, definition of 30
Mean sea level, definition of 30
Measuring point, definition of 30
Meeks Bay,
General Creek near 265–267
Membrane filter, definition of 30
Metamorphic stage, definition of 30
Method detection limit, definition of 30
Methylene blue active substances, definition of 30
Meyers,
Trout Creek at U.S. Forest Service Road 12N01 near 311–313
Upper Truckee River
at South Upper Truckee Road near 253–256
Upper Truckee River at Highway 50 above 257–260
Micrograms per gram, definition of 31
Micrograms per kilogram, definition of 31
Micrograms per liter, definition of 31
Microsiemens per centimeter, definition of 31
Mill Canyon Creek above Lost Cannon Creek near Walker 422
Milligrams per liter, definition of 31
Minden,
Buckeye Wash at East Valley Road near 420
Jobs Canyon Creek near 423
Johnson Wash at Fremont Drive near 420
Monument Creek near 423
Stutler Canyon Creek near 423
Minimum reporting level, definition of 31

Page

Miscellaneous data
Discharge measurements
miscellaneous sites 422
Discharge measurements and miscellaneous sites 423
Miscellaneous Precipitation sites
Dayton Valley 455
Miscellaneous Precipitation sites in Dayton Valley 454
Miscellaneous site, definition of 31
Moapa,
California Wash near 418
Muddy River near 68
Muddy Spring at L.D.S. Farm near 63
Pederson East Spring near 64
Pederson Spring near 65
Warm Springs Confluence at Iverson Flume near 67
Warm Springs West near 66
Mogul,
Truckee River at 367–368
Monitor Valley-Diamond Valley System,
gaging station records in 130–131
Monument Creek near Minden 423
Mosquito Creek near Belmont 131
Most probable number (MPN), definition of 31
Mountain City,
Owyhee River near 416
Muddy River,
at Lewis Avenue at Overton 72
near Glendale 71
near Moapa 68
Muddy Spring at L.D.S. Farm near Moapa 63
Multiple-plate samplers, definition of 31
Murphy Creek above East Walker River near Bridgeport 422

N

Nanograms per liter, definition of 31
National Atmospheric
Deposition Program/National Trends Network 16
National Fish and Wildlife Headquarters,
Corn Creek Spring at 75
National Geodetic Vertical Datum of 1929, definition of 31
National Stream-Quality Accounting Network 16
National Water-Quality Assessment 16
Natural substrate, definition of 31
Nekton, definition of 31
Nephelometric turbidity unit, definition of 31
Nevada Test Site and adjacent areas
monitoring project ground water records
water-use withdrawals in 583
Nevada Test Site and Adjacent Areas Monitoring Project,
definition of 17
ground-water levels 571, 576–580
water-use withdrawals in 581–583
New Empire, Brunswick Canyon near 420
New Washoe City,
Jumbo Wash near 421
Newlands Shallow Aquifer Monitoring Project,
definition of 17
ground-water levels 531
water quality records in 526
Nixon,
Pyramid Lake near 252
Pyramid Lake tributary near 421
Truckee River near 401–405
North American Vertical Datum of 1988, definition of 31
North Fork Kings Canyon,
Creek near Carson City 193
Diversion near Carson City 192
North Las Vegas,
Gowan Detention Basin outlet near 76
Sloan Channel Tributary at Las Vegas Boulevard near 79

Page

North Logan House Creek at Highway 50 near Glenbrook 299
North Truckee Drain at Kleppe Lane near Sparks 377
North Truckee Drain,
at Spanish Springs Road near Sparks 375–376

O

Oak Creek Wash near Blue Diamond 418
Oasis Valley,
gaging station records in 135
On-Site Measurements and Sample Collection 21
Open or screened interval, definition of 31
Organic carbon, definition of 31
Organic mass, definition of 31
Organism count,
Area, definition of 31
Total, definition of 35
Volume, definition of 31
Organochlorine compounds, definition of 31
Other Records Available 21
Overton Beach,
Rogers Spring near 74
Overton,
Muddy River at Lewis Avenue at 72
Valley of Fire Wash near 418
Owyhee River Basin, gaging station records in 415–416
Owyhee River,
near Gold Creek 415
near Mountain City 416

P

Pahrump Valley,
Primary observation wells 568
Paiute Drain below TJ Drain near Stillwater 213–217
Palisade,
Cole Creek near 421
Humboldt River at 238
Paradise Valley,
Little Humboldt River near 244–245
Martin Creek near 246
Primary observation wells 431
Parameter Code, definition of 31
Partial-record station, definition of 31
Particle size, definition of 31
Particle-size classification, definition of 31
Pederson East Spring near Moapa 64
Pederson Spring near Moapa 65
Percent composition, definition of 32
Percent shading, definition of 32
Periodic station, definition of 32
Periphyton, definition of 32
Pesticides, definition of 32
pH, definition of 32
Phytoplankton, definition of 32
Picocurie, definition of 32
Pine Creek near Belmont 130
Piute Wash,
near Searchlight, NV 418
Plankton, definition of 32
Pole Creek near Golconda 421
Polychlorinated biphenyls (PCB s), definition of 32
Polychlorinated naphthalenes, definition of 32
Pool, definition of 32
Precipitation,
Pyramid and Winnemucca Lakes Basin 367–368, 376
Preface iii
Preston Big Spring near Preston 59
Preston, Preston Big Spring near 59
Primary ground-water wells, by valley,
for which records are published in this volume xii
Primary Observation Wells in,
Carbonate Rock Study Area 544–545

Page

Primary Observation Wells,
in Carson Desert 453
in Coal Valley 544
in Coyote Spring Valley 545
in Desert Valley 430
in Hidden Valley 434
in Las Vegas Valley 552–557
in miscellaneous areas 435–438
in Pahrump Valley 568
in Paradise Valley 431
in Steptoe Valley 433
in Upper Moapa Valley 569
Las Vegas Subsidance Study 549, 551
Primary productivity, definition of 32
Carbon method, definition of 32
Oxygen method, definition of 32
Prosser Creek below Prosser Creek Dam near Truckee 341–342
Prosser Creek Reservoir near Truckee 340
Pyramid and Winnemucca Lakes Basin,
air temperature station records in 329
crest-stage partial-record stations in 421
gaging station records in 251–332, 334–405
precipitation records in 368, 376
precipitation station records in 328, 333
water quality records in 254–256, 258–260, 262–264, 266–267, 269–270, 272–274, 276–280, 282–283, 285–286, 288–290, 292–293, 297–299, 301–304, 306, 308, 310, 312–313, 315–318, 320–325, 330, 338–339, 346–349, 358–363, 371–374, 388–394, 398–399, 402–405
Pyramid Lake,
near Nixon 252
tributary near Nixon 421

Q

Quality of Surface Water,
in Lake Tahoe Basin 485–488

R

Radioisotopes, definition of 32
Reach, definition of 33
Records of Ground-Water Levels 23
Records of Ground-Water Quality 24
Records of Stage and Water Discharge 18
Records of Surface-Water Quality 21
Recoverable, bottom material, definition of 33
Recurrence interval, definition of 33
Reference Samples 25
References cited 37
Remark Codes 23
Reno,
Steamboat Creek at Cleanwater Way near 385
Steamboat Creek at Short Lane at 384
Truckee River at 369
Replicate Samples 25
Replicate samples, definition of 33
Return period, definition of 33
Riffle, definition of 33
River mileage, definition of 33
Robinson Creek at Twin Lakes Outlet near Bridgeport 141
Rock Creek near Battle Mountain 240
Rogers Spring near Overton Beach 74
Rosewood Creek,
below Highway 28 at Incline Village 280
Round Mountain,
South Twin River near 133
Rowland, Bruneau River at 411–412
Rox, Meadow Valley Wash near 70
Ruby Valley
ground-water levels 538–539
Ruby Valley Study,
definition of 17
Run, definition of 33
Runoff, definition of 33
Rye Patch Reservoir near Rye Patch 248
Rye Patch,
Humboldt River near 249–250
Rye Patch Reservoir near 248

S

Sagehen Creek near Truckee 345–349
Salmon Falls Creek Basin, gaging station records in 410
Salmon Falls Creek near San Jacinto 410
San Jacinto, salmon Falls Creek near 410
Schurz,
Canal No 1 below Little Dam near Schurz 160
Canal No 2 above Little Dam near 159
Walker River above Weber Reservoir near Schurz 157
Walker River at Lateral 2-A Siphon near 161–165
Walker River at Point Site below Weber Reservoir near . . . 422
Walker River at Powerline Crossing near 422
Weber Reservoir near 158
Sea level, definition of 33
Searchlight,
Piute Wash tributary near 418
Secondary Observation Well records in,
miscellaneous areas 440–446
Sediment 22
Sediment, definition of 33
Sensible heat flux, definition of 33
Shelves, definition of 33
Simon Creek near Highway 766 near Carlin 233
Sixmile Canyon Creek at Hwy 50,
near Dayton 420
S-Line Diversion Canal near Stillwater 207–211
Sloan Channel at,
Charleston Boulevard near Las Vegas 80
Sloan Channel Tributary at,
Las Vegas Boulevard near North Las Vegas 79
Smith Creek Valley tributary near Austin 419
Smoke Creek below Reservoir near Smoke Creek 408
Smoke Creek Desert, gaging station records in 408
Smoke Creek,
Smoke Creek below Reservoir near 408
Snake Valley,
gaging station records in 127
Sodium adsorption ratio, definition of 33
Soil heat flux, definition of 33
Soil-water content, definition of 33
South Fork Humboldt River,
above Dixie Creek, near Elko 230
above Tenmile Creek near Elko 229
South Lake Tahoe,
Trout Creek at 323–325
Trout Creek at Pioneer Trail near 314–316
Upper Truckee River at 261–264
South Twin River near Round Mountain 133
Sparks,
North Truckee Drain at Kleppe Lane near 377
North Truckee Drain at Spanish Springs Road near . . . 375–376
Truckee River near 370–374
Special Networks and Projects 16
Specific Conductance 22
Specific conductance, definition of 33
Spike Samples 25
Spring Discharge,
Carbonate Rock Study Area 542
Yucca Mountain Ground-water Monitoring Project 584
Spring Valley,
gaging station records in 128
Stable isotope ratio, definition of 33

Page

Stage (see gage height) 33
Stage-discharge relation, definition of 34
Stampede Reservoir near Truckee 350
State of Nevada, Hydrographic Areas 428
Stateline,
Burke Creek at mouth near 302
Eagle Rock Creek near 305–306
Edgewood Creek at 307–309
Edgewood Creek at Lake Tahoe near 310
Station Identification Numbers 17
Station manuscript 19
Statistics of monthly mean data 20
Steamboat Creek,
at Cleanwater Way near Reno 385
at Geiger Grade near Steamboat 383
at Short Lane at Reno 384
at Steamboat 382
Steamboat,
Little Washoe Lake near 380
Steamboat Creek at 382
Steamboat Creek at Geiger Grade near 383
Steptoe Creek near Ely 129
Steptoe Valley Basin, gaging station records in 129
Steptoe Valley,
Primary observation wells 432–433
Stillwater Point Reservoir Diversion Canal near Fallon 202–206
Stillwater,
Paiute Drain below TJ Drain near 213–217
S-Line Diversion Canal near 207–211
Streamflow, definition of 34
Stutler Canyon Creek near Minden 423
Substrate embeddedness class, definition of 34
Substrate, definition of 34
Artificial, definition of 26
Natural, definition of 31
Summary of Hydrologic Conditions 2
Summary statistics 20
Summit Lake Basin, gaging station records in 407
Summit Lake,
Mahogany Creek near 407
Surface area, definition of 34
Surface water 2
Surface-water stations, in downstream order,
for which records are published in this volume . . . . . viii–xi
Surficial bed material, definition of 34
Susie Creek at Carlin 232
Suspended sediment, definition of 34
Suspended solids, total residue at 105 ˚C concentration, definition of 34
Suspended, definition of 34
Recoverable, definition of 34
Total, definition of 34
Suspended-sediment concentration, definition of 34
Suspended-sediment discharge, definition of 34
Suspended-sediment load, definition of 34
Synoptic studies, definition of 34

T

Table of contents . . . . . v–vi
Tahoe City,
Blackwood Creek near 268–270
Lake Tahoe at 326
Truckee River at 327–330
Ward Creek at Stanford Rock Trail Crossing near 274
Ward Creek below Confluence near 271–273
Tahoe Pines,
Ward Creek at State Highway 89, near 275–277
Tahoe Valley,
Trout Creek near 319–322
Taxa (Species) richness, definition of 34
Taxonomy, definition of 34
Tecopa, Amargosa River at 136
Thermograph, definition of 34
Third Creek,
near Crystal Bay 281–283
Time-weighted average, definition of 35
Tonopah,
Big Smokey Valley tributary near 419
Tons per acre-foot, definition of 35
Tons per day, definition of 35
Topaz Lake near Topaz 149
Total coliform bacteria, definition of 35
Total discharge, definition of 35
Total length, definition of 35
Total load, definition of 35
Total organism count, definition of 35
Total recoverable, definition of 35
Total sediment discharge, definition of 35
Total sediment load, definition of 35
Total, bottom material, definition of 35
Total, definition of 35
Tracy,
Truckee River near 387
Transect, definition of 35
Trout Creek Watershed Project, ... 17
Trout Creek,
at Pioneer Trail near South Lake Tahoe 314–316
at South Lake Tahoe 323–325
at U.S. Forest Service Road 12N01 near Meyers 311–313
ground-water levels in 492–495
near Tahoe Valley 319–322
Truckee Canal,
near Hazen 396
near Wadsworth 395
Truckee River at Marble Bluff Dam 423
Truckee River,
at Boca Bridge near Truckee 356
at Clark 388–394
at Farad 364–365
at Reno 369
at Sparks 371–374
at Tahoe City 327–330
at Vista 386
at Wadsworth 400
below Derby Dam, near Wadsworth 397–399
near Mogul 367–368
near Nixon 401–405
near Sparks 370
near Tracy 387
near Truckee, CA 331
Truckee,
Boca Reservoir near 353
Donner Creek at Donner Lake near 334
Donner Creek at Highway 89, near 335
Donner Lake near 332–333
Independence Creek near 344
Independence Lake near 343
Little Truckee River above Boca Reservoir near 351–352
Little Truckee River below Boca Dam, near 354–355
Martis Creek near 336–339
Prosser Creek below Prosser Creek Dam near 341–342
Prosser Creek Reservoir near 340
Sagehen Creek near 345–349
Stampede Reservoir near 350
Truckee River at Boca Bridge near 356
Truckee River near 331
Turbidity, definition of 35

U

Ultraviolet (UV) absorbance (absorption), definition of 35
Unconfined aquifer, definition of 35

Page

Upper Amargosa,
gaging station records in 134, 136
Upper Moapa Valley,
ground water levels in 569
Upper Truckee River,
at Highway 50 above Meyers 257–260
at South Lake Tahoe 261–264
at South Upper Truckee Road near Meyers 253–256
Upper Twin Lake near Bridgeport 139

V

Valley of Fire State Park,
Blue Point Springs near 73
Valley of Fire Wash near Overton 418
Vertical datum, definition of 35
Vicee Canyon Creek near Sagebrush Ranch near Carson City . . . 423
Virgin River Basin Project,
definition of 17
Virgin River Basin Project, definition of 17
Virgin River Basin,
gaging station records in 52–56, 59–74
gaging-station records in 57–58, 527–530
water quality records in 53, 56, 116, 306, 330
Virgin River,
above the Narrows near Littlefield 52–53
at Littlefield 55–58
Vista, Truckee River at 386
Volatile organic compounds, definition of 35
Voltaire Canyon Creek at Carson City 420

W

Wabuska,
Walker River near 152–156
Wadsworth,
Truckee Canal near 395
Truckee River at 400
Truckee River below Derby Dam, near 397–399
Walker Lake Basin,
gaging station records in 137–165
Walker Lake,
near Hawthorne 138
Walker River near mouth at 422
Walker River Basin, crest-stage partial-record stations in 420
Walker River,
above Weber Reservoir near Schurz 157
at East Bridge Street near Yerington 422
at Lateral 2-A Siphon near Schurz 161–165
at Point Site below Weber Reservoir near Schurz 422
at Powerline Crossing near Schurz 422
near mouth at Walker Lake 422
near Wabuska 152–156
Walker,
Mill Canyon above Lost Cannon Creek near 422
Ward Creek,
at Stanford Rock Trail Crossing near Tahoe City 274
at State Highway 89, near Tahoe Pines 275–277
below Confluence near Tahoe City 271–273
Warm Springs Confluence at Iverson Flume near Moapa 67
Warm Springs West near Moapa 66

Page

Water Canyon near Genoa 423
Washoe Lake near Carson City 379
Water Quality 5
Water Quality-Control Data 25
Water table, definition of 36
Water Temperature 22
Water year, definition of 36
Water-quality,
Bruneau River Basin 414
Colorado River Main Stem 121–124
in Carson River Basin 179–184, 203–206, 208–217, 450
in Humboldt River Basin 220–221, 224–225, 447, 467
in Lake Tahoe Basin 483–484, 489–490, 496
in Las Vegas Valley 84–105, 110–111, 116–118
in Virgin River Basin 53, 56, 116, 306, 330
in Walker Lake Basin 153–156, 162–165
Pyramid and Winnemucca Lakes Basin . . . 254–256, 258–260, 262–264, 266–267, 269–270, 272–90, 292–293, 297–299, 301–304, 306, 308–310, 312–325, 330, 338–340, 346–349, 353, 356, 358–363, 369–374, 377, 379–380, 382, 385, 388–394, 398–399, 402–405, 425
Water-table aquifer, definition of 36
WDR, definition of 36
Weber Reservoir near Schurz 158
Weighted average, definition of 36
Weiser Wash near Glendale 418
Wellington,
Desert Creek near 420
West Walker River at Hoye Bridge near 150
West Fork Carson River,
at Woodfords 185
West Walker River,
at Hoye Bridge near Wellington 150
below Little Walker River, near Coleville 147
near Coleville 148
near Hudson 151
Wet mass, definition of 36
Wet weight, definition of 36
White River near Lund 60
Wood Creek,
at mouth near Crystal Bay 279
Woodfords,
West Fork Carson River at 185
WSP, definition of 36

Y

Yerington,
Walker River at East Bridge Street near 422
Yucca Mountain Ground-Water Monitoring Project,
definition of 17
Yucca Mountain Ground-water Monitoring Project,
ground-water levels 585–591
spring discharge 584
Yucca Mountain,
ground-water levels in 585–591
spring discharge in 584

Z

Zooplankton, definition of 36

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton