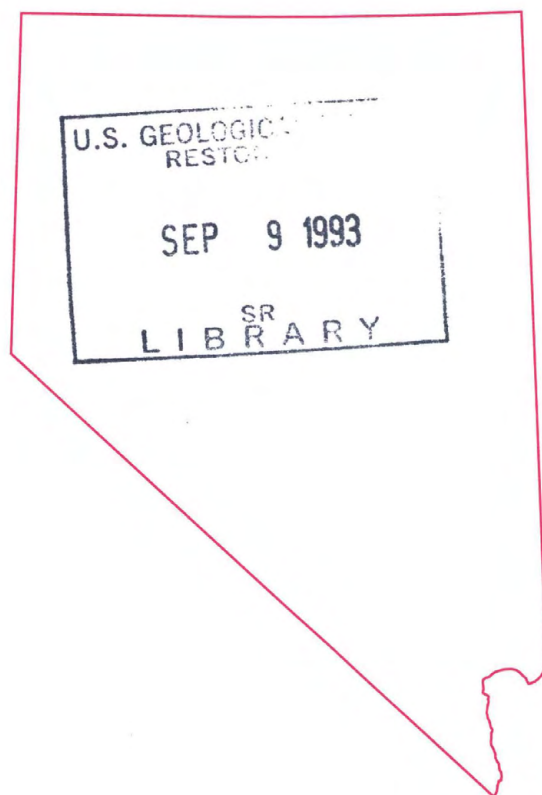


R
(200)
Ga 3
Nevada
1992



Water Resources Data Nevada Water Year 1992



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-92-1
Prepared in cooperation with the State of Nevada
and with other agencies

CALENDAR FOR WATER YEAR 1992

1991

OCTOBER

S	M	T	W	T	F	S
		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		

NOVEMBER

S	M	T	W	T	F	S
					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

DECEMBER

S	M	T	W	T	F	S
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				

1992

JANUARY

S	M	T	W	T	F	S
			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	

FEBRUARY

S	M	T	W	T	F	S
						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

MARCH

S	M	T	W	T	F	S
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				

APRIL

S	M	T	W	T	F	S
			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		

MAY

S	M	T	W	T	F	S
					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						

JUNE

S	M	T	W	T	F	S
	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				

JULY

S	M	T	W	T	F	S
			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	

AUGUST

S	M	T	W	T	F	S
						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					

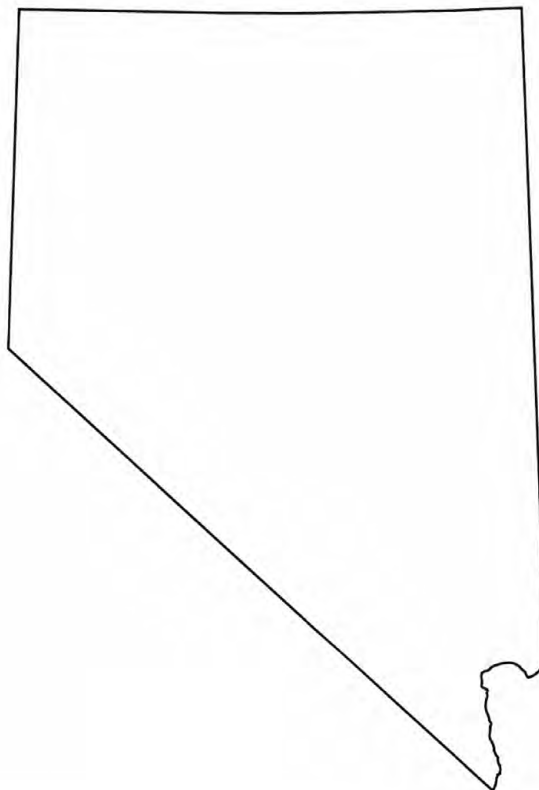
SEPTEMBER

S	M	T	W	T	F	S
		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			



Water Resources Data Nevada Water Year 1992

by D.L. Hess, K.A. Mello, R.J. Sexton, and R.L. Young



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NV-92-1
Prepared in cooperation with the State of Nevada
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information regarding water-resources investigations
in Nevada, write to:

Nevada District Office Chief, Water Resources Division
U.S. Geological Survey
333 West Nye Lane
Carson City, Nevada 89706

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 State, local, and Federal 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 four authors 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: Marianne Hayes August, Robert E. Bostic, Mike L. Childress, Sonya L. Clary, E. James Crompton, Deloy C. Emmet, Barbie J. Foster, Kerry T. Garcia, Gary C. Gortsema, Anthony Henderson, Charles R. Herrick, Daniel E. Hitch, Douglas D. Hutchinson, Judy M. Jacoboni, Nicole A. Jonson, Dan S. Kogut, Loren A. Lawson, Donald R. McClary, Rachelle J. Mathis, Robert M. Moquino, Ed Neal, Kari L. O'Hair, Robert N. Pennington, Alan M. Preissler, Darren D. Reeves, Timothy G. Rowe, J. Christopher Stone, Robert A. Swanson, James R. Swartwood, Lloyd Van Gordon, Roger K. White, Rita Whitney, and Rhea P. Williams.

REPORT DOCUMENTATION PAGEForm Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE April 7, 1993	3. REPORT TYPE AND DATES COVERED Annual-Oct. 1, 1991 to Sept. 30, 1992
4. TITLE AND SUBTITLE Water Resources Data, Nevada, Water Year 1992			5. FUNDING NUMBERS
6. AUTHOR(S) Dan L. Hess, Karen A. Mello, Robert J. Sexton, Richard L. Young			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 333 West Nye Lane, Room 205 Carson City, NV 89706			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WRD-NV-92-1
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) U.S. Geological Survey, Water Resources Division 333 West Nye Lane, Room 205 Carson City, NV 89706			10. SPONSORING/MONITORING AGENCY REPORT NUMBER USGS/WRD/HD-93/270
11. SUPPLEMENTARY NOTES Prepared in cooperation with Federal, State and local agencies.			
12a. DISTRIBUTION/AVAILABILITY STATEMENT No restrictions on distribution. This report may be purchased from: National Technical Information Service Springfield, VA 22161			12b. DISTRIBUTION CODE
13. ABSTRACT (Maximum 200 words) Water-resources data published herein for the 1992 water year comprise the following records: <ul style="list-style-type: none">o Water discharge for 141 gaging stations on streams, canals, and drains.o Discharge data for 273 peak-flow stations and miscellaneous sites, and 71 springs.o Stage and contents for 20 lakes and reservoirs.o Water-quality data for 137 stream, canal, lake and drain sites, and 76 wells.o Precipitation totals for 7 streams.o Precipitation totals for 23 high elevation sites.o Water levels for 33 continuous record wells, and 527 observation 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.			
14. SUBJECT TERMS *Nevada, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water Temperatures, Sampling sites, Water levels, Water analysis.			15. NUMBER OF PAGES 511
			16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT

CONTENTS

	Page
PREFACE	iii
LIST OF SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME. . .	vii
LIST OF GROUND-WATER WELLS, BY VALLEY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME.	x
LIST OF DISCONTINUED SURFACE-WATER DISCHARGE STATIONS	xi
LIST OF DISCONTINUED SURFACE-WATER QUALITY STATIONS	xvii
INTRODUCTION	1
COOPERATION	1
SUMMARY OF HYDROLOGIC CONDITIONS	2
Surface water	2
Surface-water quality	5
Ground water	8
Water use	12
SPECIAL NETWORKS AND PROGRAMS	15
EXPLANATION OF THE RECORDS	15
Station identification numbers	15
Downstream order system	15
Latitude-longitude system	16
Local site numbers	16
Records of stage and water discharge	16
Data collection and computation	16
Data presentation	17
Station manuscript	17
Data table of daily mean values	18
Statistics of monthly mean data	18
Summary statistics	18
Identifying estimated daily discharge	20
Accuracy of the records	20
Other records available	20
Records of surface-water quality	20
Classification of records	20
Arrangement of records	20
On-site measurements and sample collection	21
Water temperature	21
Laboratory measurements	21
Sediment	21
Data presentation	22
Remark codes	22
Dissolved trace-element concentrations	22
Records of ground-water levels	23
Data collection and computation	23
Data presentation	23
Records of ground-water quality	24
Data collection and computation	24
Data presentation	24
ACCESS TO WATSTORE DATA	24
DEFINITION OF TERMS	25
REFERENCES CITED	30
WATER-RELATED PUBLICATIONS FOR NEVADA COMPLETED BY THE U.S. GEOLOGICAL SURVEY DURING	
CALENDAR YEAR 1992	31
PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS	34
SURFACE-WATER RECORDS.	37
Surface-water stations	48
Spring discharge.	378
Smoke Creek Desert, Spanish Springs Valley, Precipitation Networks.	382
Discharge at partial-record stations and miscellaneous sites.	386
Crest-stage partial-record stations.	386
Miscellaneous sites.	389
Great Basin National Park Seepage Investigation.	392
Truckee and Carson Rivers, Low-flow Investigation.	394
Analyses of samples collected for	
Low-flow investigation of the Truckee River and selected tributaries	406
Water-quality partial-record stations and miscellaneous sites.	409
GROUND-WATER RECORDS	411
Hydrographic areas, State of Nevada	412
Ground-water levels, primary observation wells.	420
Ground-water levels, secondary observation wells.	442
Quality of ground water	472
Laughlin wells	472
SPECIAL NETWORKS AND PROJECTS	474
Data for Douglas County	474
Data for Lake Tahoe Basin	490
Data for Carlin Area, northeastern Nevada	494
Nevada High-Elevation Precipitation Network	505
INDEX	507

ILLUSTRATIONS

	Page
Figures 1-5. Graphs showing:	
1. Comparison of discharge during water year 1992 with the long-term mean discharge at two representative gaging stations	3
2. Water-surface elevation at Walker and Pyramid Lakes, water years 1965-92	4
3. Mean dissolved-solids concentrations at National network sites in 1992, compared with ranges of dissolved-solids for the period of record	6
4. Dissolved-solids concentrations in the Colorado River below Hoover Dam (station 09421500) for water years 1970-92	7
5. Number of well logs submitted to the Nevada State Engineer's Office during water years 1971-92	9
6. Map showing distribution, by county, of the number and use of wells drilled in water year 1992	10
7. Map showing long-term water-level depths below land surface in six selected observation wells	11
8. Graph showing monthly water withdrawals for public supply in the Las Vegas, Reno, and Carson City areas, 1982-92	13
9. View showing Pyramid Lake, 1972	14
10-29. Maps showing data sites listed in this report:	
10. Gaging stations	38
11. Gaging stations, west-central Nevada	39
12. Gaging stations, Lake Tahoe basin	40
13. Gaging stations in Carlin area, northeastern Nevada	41
14. Gaging stations, southeastern Nevada	42
15. Surface-water quality stations	43
16. Surface-water quality stations, Lake Tahoe basin	44
17. Surface-water quality stations in Carlin area, northeastern Nevada	45
18. Surface-water quality stations, southeastern Nevada	46
19. Springs and high-elevation precipitation sites within carbonate-rock study area, eastern Nevada	377
20. High-elevation precipitation sites in northwestern Nevada	383
21. Crest-stage partial-record stations	384
22. Crest-stage partial-record stations, southeastern Nevada	385
23. Observation wells	413
24. Observation wells and ground-water quality sites, west-central Nevada	415
25. Selected observation wells within carbonate-rock study area, eastern Nevada	416
26. Observation wells and ground-water quality sites, southeastern Nevada	419
27. Ground-water quality sites, northwestern Douglas County	483
28. Ground-water quality sites, Lake Tahoe basin	489
29. Observation wells and ground-water quality sites in Carlin area, northeastern Nevada	493

WATER RESOURCES DATA - NEVADA, 1992

vii

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: (d) discharge, (c) chemical, (m) microbiological, (p) precipitation, (t) water temperature, (s) sediment (e) elevation, gage heights, or contents,]

	Station number	Page
<u>COLORADO RIVER BASIN [PART 09]</u>		
Colorado River:		
VIRGIN RIVER BASIN		
Virgin River at Littlefield, AZ (d,c,m,t,s)	09415000	48
White River (head of Muddy River):		
Water Canyon Creek near Preston (d)	09415515	52
White River near Lund (d)	09415550	53
Crystal Spring near Hiko (d)	09415590	54
White River above Upper Pahrnanagat Lake near Alamo (d)	09415700	55
Pahrnanagat Wash near Moapa (d,c,t)	09415850	56
Muddy Spring at L.D.S. Farm near Moapa (d)	09415900	58
Pederson Spring near Moapa (d)	09415910	59
Warm Springs West near Moapa (d)	09415920	60
Muddy River near Moapa (d,c,p,t)	09416000	61
Meadow Valley Wash:		
Meadow Valley Wash near Caliente (d)	09418500	67
Meadow Valley Wash near Rox (d,c,t,s)	09418700	68
Muddy River near Glendale (d)	09419000	73
Muddy River above Lake Mead, near Overton (d,c,m,t,s)	09419515	75
Rogers Spring near Overton Beach (d)	09419550	78
LAS VEGAS VALLEY		
Lee Canyon near Charleston Park (d)	09419610	79
Corn Creek Spring at National Fish and Wildlife Headquarters (d)	09419625	80
Las Vegas Wash above Detention Basin, near North Las Vegas (d,c,t,s)	09419648	81
Las Vegas Creek at Lamb Boulevard, near Las Vegas (d,p)	09419656	83
Las Vegas Wash near Sahara Avenue near Las Vegas (d,p)	09419658	84
Sloan Channel at Charleston Boulevard, near Las Vegas (d,p)	09419665	85
Flamingo Wash near Torrey Pines Drive, near Las Vegas (d,p)	09419673	86
Flamingo Wash at Nellis Boulevard, near Las Vegas (d,p)	09419678	87
Las Vegas Wasteway near East Las Vegas (d)	09419679	88
Las Vegas Wash near Henderson (c,t)	09419700	89
Las Vegas Wash above Three Kids Wash, below Henderson (d,c,t)	09419753	91
Las Vegas Wash Overflow at Lake Las Vegas Inlet below Henderson (d)	09419756	93
Las Vegas Wash below Lake Las Vegas below Henderson (d)	09419790	94
Lake Mead at Hoover Dam (e)	09421000	95
Colorado River below Hoover Dam (d,c,m,t,s)	09421500	97
<u>THE GREAT BASIN [PART 10]</u>		
SPRING VALLEY		
Cleve Creek near Ely (d)	10243700	100
STEPTOE VALLEY		
Steptoe Creek near Ely (d,c,m,p,t,s)	10244950	102
JAKES VALLEY		
Illipah Creek near Hamilton (d)	10245445	105
MONITOR VALLEY-DIAMOND VALLEY SYSTEM		
Pine Creek near Belmont (d)	10245900	106
Mosquito Creek near Belmont (d)	10245910	107
Stoneberger Creek near Austin (d)	10245925	108
HOT CREEK AND NORTHERN RAILROAD VALLEYS		
Little Curren Creek near Curren (d)	10246846	109
Big Creek near Warm Springs (d)	10247200	110
STONE CABIN VALLEY		
Willow Creek near Warm Springs (d)	10249190	111
BIG SMOKY VALLEY (NORTHERN PART)		
Kingston Creek below Cougar Canyon, near Austin (d)	10249280	112
South Twin River near Round Mountain (d,c,m,t,s)	10249300	113
PAHRUMP VALLEY		
Peak Spring Canyon Creek near Charleston Peak (d)	10251890	116
WALKER LAKE BASIN		
Walker Lake near Hawthorne (e)	10288500	117
Virginia Creek (head of Walker River):		
Upper Twin Lake near Bridgeport, CA (e)	10290300	118
Lower Twin Lake near Bridgeport, CA (e)	10290400	119
Robinson Creek at Twin Lakes Outlet near Bridgeport, CA (d)	10290500	120
East Walker River (continuation of Virginia Creek):		
Bridgeport Reservoir near Bridgeport, CA (e)	10292500	121
East Walker River near Bridgeport, CA (d)	10293000	122
East Walker River above Strosnider ditch, near Mason (d)	10293500	123

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

	Station number	Page
<u>THE GREAT BASIN--Continued</u>		
West Walker River:		
West Walker River below Little Walker River, near Coleville, CA (d)	10296000	124
West Walker River near Coleville, CA (d)	10296500	126
West Walker River above Topaz Lake at Topaz, CA (c,t)	10296650	128
Topaz Lake near Topaz, CA (e)	10297000	129
West Walker River at Hoye bridge, near Wellington (d,c,t)	10297500	130
West Walker River near Hudson (d)	10300000	132
Walker River near Wabuska (d,c,m,t,s)	10301500	133
HUMBOLDT-CARSON SINK BASIN		
CARSON RIVER BASIN		
East Fork Carson River below Markleeville Creek, near Markleeville, CA (d)	10308200	137
East Fork Carson River near Gardnerville (d,c,t)	10309000	138
Pine Nut Creek near Gardnerville (d)	10309050	141
Buckeye Creek near Minden (d)	10309070	142
West Fork Carson River at Woodfords, CA (d)	10310000	143
West Fork Carson River at Paynesville, CA (c,t)	10310200	145
Fredericksburg Canyon Creek near Fredericksburg, CA (d)	10310300	146
Miller Spring near Sheridan (d)	10310350	147
Daggett Creek near Genoa (d)	10310400	148
Clear Creek near Carson City (d)	10310500	149
Carson River near Carson City (d,c,t)	10311000	150
North Fork Kings Canyon Diversion near Carson City (d)	10311089	152
North Fork Kings Canyon Creek near Carson City (d)	10311090	153
Kings Canyon Creek near Carson City (d)	10311100	154
Ash Canyon Creek near Carson City (d)	10311200	155
Vicee Canyon Creek near Sagebrush Ranch near Carson City (d)	10311260	156
Eagle Valley Creek at Carson City (d)	10311300	157
Carson River at Deer Run Road near Carson City (d)	10311400	158
Carson River near Fort Churchill (d,c,m,t,s)	10312000	159
Lahontan Reservoir near Fallon (e)	10312100	163
Carson River below Lahontan Reservoir, near Fallon (d)	10312150	164
Stillwater Diversion Canal near Fallon (d,c,t)	10312210	165
Dry Lake Canal below West Canal Diversion near Stillwater (d)	1031221775	170
S-Line Diversion Canal near Stillwater (d,c,t)	1031221902	171
Carson River at Tarzyn Road, near Fallon (d)	10312275	173
Paiute Drain below TJ Drain near Stillwater (d,c,t)	10312277	174
HUMBOLDT RIVER BASIN		
East Fork Humboldt River:		
Marys River below Orange Bridge near Charleston (d,t)	10313400	179
Marys River above Hot Springs Creek, near Deeth (d)	10315500	182
Marys River below Twin Buttes near Deeth (d,t)	10315600	183
Lamoille Creek near Lamoille (d)	10316500	185
Humboldt River near Elko (d)	10318500	186
South Fork Humboldt River above Tenmile Creek, near Elko (d)	10319900	187
South Fork Humboldt River above Dixie Creek, near Elko (d)	10320000	189
Dixie Creek above South Fork Humboldt River, near Elko (d,s)	10320100	190
Humboldt River near Carlin (d,c,m,t,s)	10321000	192
Susie Creek at Carlin (d)	10321590	195
Jack Creek below Indian Creek near Carlin (d,c,t)	10321860	196
Maggie Creek at Maggie Creek Canyon, near Carlin (d,c,t)	10321950	198
Maggie Creek near Carlin (d)	10321970	200
Maggie Creek at Carlin (d)	10322000	201
Marys Creek at Carlin (d,c,t)	10322150	202
Humboldt River at Palisade (d,c,t,s)	10322500	204
Humboldt River at Old US 40 Bridge, at Dunphy (d,c,t,s)	10323425	206
Rock Creek near Battle Mountain (d,c,t)	10324500	208
Boulder Creek near Dunphy (d)	10324700	211
Humboldt River at Battle Mountain (d,c,t,s)	10325000	212
Humboldt River at Comus (d)	10327500	215
Little Humboldt River:		
Little Humboldt River near Paradise Valley (d)	10329000	216
Martin Creek near Paradise Valley (d)	10329500	217
Humboldt River near Imlay (d)	10333000	218
Rye Patch Reservoir near Rye Patch (e)	10334500	219
Humboldt River near Rye Patch (d)	10335000	220
PYRAMID AND WINNEMUCCA LAKES BASIN		
Pyramid Lake near Nixon (e)	10336500	221
Upper Truckee River at South Upper Truckee Road, near Meyers, CA (d,c,t,s)	10336580	222
Upper Truckee River at Highway 50, above Meyers, CA (d,c,t,s)	103366092	225
Upper Truckee River at South Lake Tahoe, CA (d,t,s)	10336610	228
Lake Tahoe:		
Taylor Creek:		
Fallen Leaf Lake near Camp Richardson, CA (e)	10336625	233
Taylor Creek near Camp Richardson, CA (d)	10336626	234
General Creek near Meeks Bay, CA (d,t,s)	10336645	235
Blackwood Creek near Tahoe City, CA (d,t,s)	10336660	240
Ward Creek below Confluence near Tahoe City, CA (d)	10336674	245
Ward Creek at Stanford Rock Trail Crossing near Tahoe City, CA (d)	10336675	246
Ward Creek at State Highway 89, near Tahoe Pines, CA (d,t,s)	10336676	247
First Creek near Crystal Bay (c,t,s)	10336688	252
Second Creek at Lakeshore Drive near Crystal Bay (c,t,s)	10336691	253
Wood Creek above Jennifer Street near Incline Village (c,t,s)	10336692	254

WATER RESOURCES DATA - NEVADA, 1992

1x

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

	Station number	Page
<u>THE GREAT BASIN--Continued</u>		
PYRAMID AND WINNEMUCCA LAKES BASIN--Continued		
Wood Creek at Mouth near Crystal Bay (c,t,s)	10336694	255
Third Creek below Unnamed Tributary near Incline Village (c,t,s)	103366958	256
Third Creek at Village Boulevard at Incline Village (c,t,s)	103366965	257
Third Creek near Crystal Bay (d,c,t,s)	10336698	258
Incline Creek above Tyrol Village, near Incline Village (d,c,t,s)	103366993	261
Incline Creek at Highway 28, at Incline Village (d,c,t,s)	103366995	264
Incline Creek Tributary at Country Club Drive near Incline Village (c,t,s)	103366997	267
Incline Creek near Crystal Bay (d,c,t,s)	10336700	268
Marlette Lake near Carson City (e)	10336710	271
Marlette Creek near Carson City (d)	10336715	272
Glenbrook Creek at Old Highway 50 near Glenbrook (c,t,s)	10336725	273
Glenbrook Creek at Glenbrook (d,c,t,s)	10336730	274
North Logan House Creek at Highway 50 near Glenbrook (c,t,s)	10336735	277
Logan House Creek near Glenbrook (d,c,t,s)	10336740	278
Edgewood Creek below South Benjamin Drive near Daggett Pass (c,t,s)	10336750	281
Edgewood Creek Tributary near Daggett Pass (c,t,s)	10336756	282
Edgewood Creek at Palisades Drive, near Kingsbury (d,c,t,s)	103367585	283
Eagle Rock Creek near Stateline (d,c,t,s)	103367592	286
Edgewood Creek at Stateline (c,t,s)	10336760	289
Edgewood Creek below Highway 50 near Stateline (c,t,s)	10336761	290
Edgewood Creek Tributary above Edgewood Clubhouse near Stateline (c,t,s)	385758119564401	291
Edgewood Creek at Lake Tahoe near Stateline (d,c,t,s)	10336765	292
Trout Creek at U.S. Forest Service Road 12N01, near Meyers, CA (d,c,t,s)	10336770	295
Trout Creek at Pioneer Trail, near South Lake Tahoe, CA (d,c,t,s)	10336775	298
Trout Creek near Tahoe Valley, CA (d)	10336780	301
Trout Creek at South Lake Tahoe, CA (t,s)	10336790	303
Lake Tahoe at Tahoe City, CA (e)	10337000	306
Truckee River at Tahoe City, CA (d)	10337500	307
Donner Lake near Truckee, CA (e)	10338400	309
Donner Creek at Donner Lake, near Truckee, CA (d)	10338500	310
Martis Creek at State Highway 267, near Truckee, CA (c,t,s)	10339250	312
Martis Creek Lake near Truckee, CA (c,t,s)	10339380	313
Martis Creek near Truckee, CA (c,t,s)	10339400	314
Prosser Creek Reservoir near Truckee, CA (e)	10340300	317
Prosser Creek below Prosser Creek Dam, near Truckee, CA (d)	10340500	318
Little Truckee River:		
Independence Lake near Truckee, CA (e)	10342900	320
Independence Creek near Truckee, CA (d)	10343000	321
Sagehen Creek near Truckee, CA (d,c,m,p,t,s)	10343500	322
Stampede Reservoir near Truckee, CA (e)	10344300	326
Little Truckee River above Boca Dam, near Truckee, CA (d)	10344400	327
Boca Reservoir near Truckee, CA (e)	10344490	329
Little Truckee River below Boca Dam, near Truckee, CA (d)	10344500	330
Truckee River at Farad, CA (d)	10346000	332
Truckee River at Reno (d,t)	10348000	334
Truckee River near Sparks (d,t)	10348200	337
Franktown Creek (head of Steamboat Creek) near Carson City (d)	10348460	340
Steamboat Creek:		
Washoe Lake near Carson City (e)	10348700	341
Little Washoe Lake near Steamboat (e)	10348800	342
Galena Creek at Galena State Park (d)	10348850	343
Galena Creek near Steamboat (d)	10348900	344
Steamboat Creek at Steamboat (d)	10349300	345
Truckee River at Vista (d,t)	10350000	346
Truckee River below Tracy (d)	10350400	350
Truckee River at Clark (t)	10350500	351
Truckee Canal near Wadsworth (d)	10351300	353
Truckee Canal near Hazen (d)	10351400	354
Truckee River below Derby Dam, near Wadsworth (d,t)	10351600	355
Truckee River near Nixon (d,c,m,t,s)	10351700	358
Truckee River at Marble Bluff Dam (t)	10351775	363
BLACK ROCK DESERT BASIN		
Quinn River:		
McDermitt Creek near McDermitt (d)	10352500	365
Kings River near Orovada (d)	10353600	366
SUMMIT LAKE VALLEY		
Mahogany Creek near Summit Lake (d)	10353750	367
HUALAPAI FLAT		
South Willow Creek near Gerlach (d)	10353770	368
SMOKE CREEK DESERT		
Smoke Creek below Reservoir near Smoke Creek (d)	10353800	369
<u>SNAKE RIVER BASIN [PART 13]</u>		
SALMON FALLS CREEK BASIN		
Salmon Falls Creek near San Jacinto (d)	13105000	370
BRUNEAU RIVER BASIN		
Bruneau River at Rowland (d)	13161500	371
OWYHEE RIVER BASIN		
Wild Horse Reservoir near Gold Creek (e)	13174000	372
Owyhee River near Gold Creek (d)	13174500	373
Owyhee River near Mountain City (d)	13175100	374

WATER RESOURCES DATA - NEVADA, 1992

x

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

GROUND-WATER LEVELS

Page

PARADISE VALLEY

Well 412910117321001 Local number 69 N42 E39 25CAC 1 420

SPANISH SPRINGS VALLEY

Well 393737119411501 Local number 85 N20 E20 01CAAC1 421

Well 393743119413601 Local number 85 N20 E20 01CBAB1 421

Well 393744119435101 Local number 85 N20 E20 03BCCD1 421

Well 393738119432101 Local number 85 N20 E20 03DBAB1 422

Well 393649119432301 Local number 85 N20 E20 10CAAB1 422

Well 393649119432302 Local number 85 N20 E20 10CAAB2 422

Well 393637119432901 Local number 85 N20 E20 10CDAC1 423

Well 393655119421901 Local number 85 N20 E20 11BDDC1 423

Well 393529119441601 Local number 85 N20 E20 21ABAC1 423

Well 393513119443501 Local number 85 N20 E20 21BDAD1 424

Well 393648119403301 Local number 85 N20 E21 07CBCB1 425

Well 393631119403401 Local number 85 N20 E21 07CCCC1 426

Well 393558119395001 Local number 85 N20 E21 18ADCB1 426

Well 393544119394701 Local number 85 N20 E21 18DADB1 426

Well 394154119405401 Local number 85 N21 E20 12DACD1 427

Well 394032119414601 Local number 85 N21 E20 24BCBA1 428

Well 393904119420701 Local number 85 N21 E20 26DDCC1 428

Well 393812119425701 Local number 85 N21 E20 34DDDC1 428

Well 393927119401301 Local number 85 N21 E21 30CAAA1 429

Well 393828119401601 Local number 85 N21 E21 31CBDB1 429

CARSON DESERT

Well 392825118470501 Local number 101 N19 E28 36AABC1 430

PAHRUMP VALLEY

Well 360836115531701 Local number 162 S21 E54 10AAC 1 431

STEPTOE VALLEY

Well 393310114475001 Local number 179 N20 E64 32C 2 432

CAVE VALLEY

Well 382807114521001 Local number 180 N07 E63 14BADD1 433

COYOTE SPRING VALLEY

Well 364743114533101 Local number 210 S13 E63 23DDDC1 434

LAS VEGAS VALLEY

Well 363212115240301 Local number 212 S16 E58 24BB 1 435

Well 361843115161001 Local number 212 S19 E60 09BCC 1 436

Well 361611115151301 Local number 212 S19 E60 27BDC 1 437

Well 360846115091401 Local number 212 S21 E61 04DDBA1 438

Well 360349115100001 Local number 212 S22 E61 04BCB 1 439

MUDDY SPRINGS AREA (Upper Moapa Valley)

Well 364650114432001 Local number 219 S13 E65 28BDAC1 440

AMARGOSA DESERT

Well 364556116413501 Local number 230 S13 E47 35BDBA1 441

WATER RESOURCES DATA - NEVADA, 1992

DISCONTINUED SURFACE-WATER STATIONS

xi

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
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
VIRGIN RIVER ABOVE HALFWAY WASH NEAR RIVERSIDE, NV	09415230	5,980	1978, 1980-83, 1985
WHITE RIVER NEAR PRESTON, NV	09415500	--	1914
PRESTON BIG SPRING NEAR PRESTON, NV	09415510	--	1983-85
PAHRANAGAT VALLEY TRIB NEAR HIKO, NV	09415600	17.0	1964-77
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
LAS VEGAS WASH AT NORTH LAS VEGAS, NV	09419650*	1,300	1962-78
LAS VEGAS WASH NEAR HENDERSON, NV	09419700	2,125	1957-83, 1985-88
FLAMINGO WASH AT MARYLAND PARKWAY AT LAS VEGAS, NV	09419677	106	1970-78
LAS VEGAS WASH NEAR BOULDER CITY, NV	09419800	2,193	1969-84
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 MONTELLLO, 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	1948-55
BAKER CREEK NEAR BAKER, NV	10243250	10.0	1913-16
LEHMAN CREEK NEAR BAKER, NV	10243260	11.0	1948-55
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

WATER RESOURCES DATA - NEVADA, 1992
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
CURRIE SPRING NEAR CURRIE, NV	10245030	--	1983-86
GOSHUTE CREEK NEAR CHERRY CREEK, NV	10245040	9.67	1983-86
NEWARK VALLEY TRIB NEAR HAMILTON, NV	10245800	157	1962-86
BIG SPRING NEAR DUCKWATER, NV	10246835	--	1970-71
CURRANT CREEK AT RANGER STATION NEAR CURRANT, NV	10246850	--	1913
CURRANT CREEK (AT CAZIEN'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
HOT CREEK NEAR WARM SPRINGS, NV	10247050	1,030	1967-73
PENOYER VALLEY TRIB NEAR TEMPIUTE, NV	10247860	1.48	1966-77
ELDORADO VALLEY TRIB NEAR NELSON, NV	10248510	1.41	1966-77
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
AMARGOSA RIVER NEAR BEATTY, NV	10251220	470	1964-68
LEES CREEK NEAR PAHRUMP, NV	10251900	--	1916
INTERMITTANT 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
BUCKEYE CREEK NEAR BRIDGEPORT, CA	10291500	44.1	1912-14, 1954-79
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	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
LITTLE WALKER RIVER NEAR BRIDGEPORT, CA	10295500	63.1	1945-86

WATER RESOURCES DATA - NEVADA, 1992
DISCONTINUED SURFACE-WATER STATIONS--Continued

xiii

Station name	Station number	Drainage area (mi ²)	Period of record
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 WEBER RESERVOIR NEAR SCHURZ, NV	10301600	2,700	1977-82
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
BRYANT CREEK NEAR GARDNERVILLE, NV	10308800	31.5	1961-70, 1977-82
INDIAN CREEK AT WOODFORDS, CA	10309025	1.7	1987-91
INDIAN CREEK AT DIAMOND VALLEY NEAR PAYNESVILLE, CA	10309030	16.15	1987-91
EAST FORK CARSON RIVER AT MINDEN, NV	10309100	392	1974-84
WEST FORK CARSON RIVER ABOVE WOODFORDS, CA	10309500	53	1947-51
CARSON RIVER AT GENOA, NV	10310405	570	1974-82
VICEE CANYON CREEK NEAR CARSON CITY, NV	10311250	1.30	1983-85
CARSON RIVER NEAR EMPIRE, NV	10311500	988	1901-07, 1911-23
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

WATER RESOURCES DATA - NEVADA, 1992
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
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
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
NORTH FORK HUMBOLDT RIVER NEAR HALLECK, NV	10318000	1,020	1898-1900, 1904-14
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
SOUTH FORK HUMBOLDT RIVER NEAR ELKO, NV	10320500	1,310	1896-1922, 1924-32, 1937-74
SUSIE CREEK NEAR CARLIN, NV	10321500	82.5	1956-58
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
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

WATER RESOURCES DATA - NEVADA, 1992
DISCONTINUED SURFACE-WATER STATIONS--Continued

xv

Station name	Station number	Drainage area (mi ²)	Period of record
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 R 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	--	1947-76
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
LOWER HUMBOLDT DRAIN NEAR LOVELOCK, NV	10336050	--	1965-66
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
TRUCKEE RIVER NEAR TRUCKEE, CA	10338000	553	1945-61, 1977-82
DONNER CREEK NEAR TRUCKEE, CA	10339000	29.4	1902-15, 1928-43
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 NEAR HOBART MILLS, CA	10342000	37.1	1947-72
TRUCKEE RIVER NEAR ESSEX, NV	10347000	991	1889
DOG CREEK NEAR VERDI, CA	10347300	16.2	1956-61
TRUCKEE RIVER AT LAUGHTONS, CA	10347500	1,050	1890
HUNTER CREEK NEAR RENO, NV	10347600	11.5	1962-72, 1978-81
PEAVINE CREEK NEAR RENO, NV	10347800	2.34	1963-74

WATER RESOURCES DATA - NEVADA, 1992
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
FRANKTOWN CREEK AT FRANKTOWN, NV	10348500	14.0	1948-55, 1958
STEAMBOAT CREEK AT STEAMBOAT SPRINGS, NV	10349500	123	1900-01
WHITES CREEK NEAR STEAMBOAT, NV	10349700	8.02	1962-66
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 AT WADSWORTH, NV	10351650	1,728	1965-86
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
QUINN RIVER NEAR DENIO, NV	10353650	3,520	1964-67, 1978-81
LEONARD CREEK NEAR DENIO, NV	10353700	52.0	1961-83
RED MOUNTAIN CREEK NEAR GERLACH, NV	10353790	30.0	1967-68
BADGER CREEK TRIB NEAR VYA, NV	10361700	7.70	1964-72
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
SOUTH FORK OWYHEE RIVER NEAR DEEP CREEK, NV	13177500	--	1921-24
SOUTH FORK OWYHEE RIVER NEAR WHITEROCK, NV	13177800	1,080	1956-82
BIG SPRING NEAR ASH MEADOWS, NV	362230116162400	--	1976-88
JACK RABBIT SPRING NEAR ASH MEADOWS, NV	362324116163900	--	1976-88
POINT OF ROCKS SPRING NEAR ASH MEADOWS, NV	362405116161300	--	1976-81, 1984-86
SCHOOL SPRING NEAR ASH MEADOWS, NV	362538116181100	--	1981
MARSH SPRING NEAR ASH MEADOWS, NV	362547116183500	--	1981
SCRUGS SPRING NEAR ASH MEADOWS, NV	362601116182800	--	1981
FAIRBANKS SPRING NEAR ASH MEADOWS, NV	362924116203001	--	1976-88

WATER RESOURCES DATA - NEVADA, 1992

xviii

DISCONTINUED SURFACE-WATER-QUALITY 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.

Discontinued continuous-record surface-water-quality stations

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Virgin River at Littlefield, AZ	09415000	5,090	Temp. S.C.	1947-88 1950-60, 1965-88
Virgin River above Halfway Wash near Riverside, NV	09415230	5,980	Temp., S.C.	1978-82
Las Vegas Wasteway near East Las Vegas, NV	09419679	--	Temp. S.C.	1980-87 1979-87
Las Vegas Wash near Henderson, NV	09419700	2,125	Temp., S.C.	1986-87
Las Vegas Wash at powerline crossing below Henderson, NV	09419755	--	Temp., S.C.	1986-87
Las Vegas Wash near Boulder City, NV	09419800	2,193	Temp. S.C.	1979-86 1976-77, 1979-86
Colorado River below Hoover Dam, AZ-NV	09421500	171,700	Temp. S.C.	1980, 1986-87 1986-87
Steptoe Creek near Ely, NV	10244950	11.1	Temp.	1967-83
South Twin River near Round Mountain, NV	10249300	20.0	Temp.	1966-68, 1970-83
Chiatovich Creek near Dyer, NV	10249900	37.3	Temp.	1975-82
Walker River near Wabuska, NV	10301500	2,600	Temp., S.C.	1969-76
Leviathan Creek above mine near Markleeville, CA	10308783	--	Temp., S.C.	1981-82
Leviathan Mine tunnel spring near Markleeville, CA	10308784	--	Temp., S.C.	1981-82
Leviathan Mine pit flow near Markleeville, CA	10308785	--	Temp., S.C.	1982
Leviathan Mine waste flow near Markleeville, CA	10308786	--	Temp., S.C.	1981
Leviathan Mine seep below crusher near Markleeville, CA	10308787	--	Temp., S.C.	1982
Leviathan Creek below delta near Markleeville, CA	10308788	--	Temp., S.C.	1982
Leviathan Creek below mine near Markleeville, CA	10308790	--	Temp., S.C.	1981-82
Bryant Creek below Mountaineer Creek near Markleeville, CA	10308794	--	Temp., S.C.	1982
Bryant Creek near Gardnerville, NV	10308800	31.5	Temp., S.C.	1982-83
East Fork Carson River near Gardnerville, NV	10309000	356	Temp.	1953-72
Carson River near Fort Churchill, NV	10312000	1,302	Temp., S.C.	1972-82
Carson River near Silver Springs, NV	10312020	1,450	Temp., S.C.	1963-71
Carson River below Lahontan Reservoir near Fallon, NV	10312150	1,801	Temp.	1981-83
Stillwater Point Diversion Drain near Stillwater, NV	10312215	--	Temp., S.C., pH, D.O.	1988-90
Paiute Drain above D-line Canal near Stillwater, NV	10312250	--	Temp., S.C. pH, D.O.	1988-90 1988-89
D-line Canal below East Lake near Stillwater, NV	10312267	--	Temp., S.C., pH, D.O.	1989
TJ Drain at wildlife entrance near Stillwater, NV	10312274	--	Temp., S.C., pH, D.O.	1988-90
Humboldt River near Carlin, NV	10321000	4,310	Temp.	1966-68, 1981-83
Humboldt River at Palisade, NV	10322500	5,010	Temp.	1962-65
Reese River near Ione, NV	10325500	53	Temp.	1962
Humboldt River near Rye Patch, NV	10335000	16,100	Temp.	1952-58, 1960-81
Third Creek near Crystal Bay, NV	10336698	6.05	S.C. Temp.	1965-81 1980-85
Martis Creek at Highway 267 near Truckee, CA	10339250	25.8	S.C. Temp.	1980-84 1973-88
Truckee River at Floriston, CA	10345900	932	Temp., S.C.	1964-71
Truckee River at Farad, CA	10346000	932	Temp. S.C.	1972-81 1972-80
Truckee River near Verdi, NV	10347336	--	Temp.	1980
Truckee River at Lockwood, NV	10350050	1,433	Temp.	1980-81
Truckee River above Tracy, NV	10350390	1,590	Temp.	1972-82
Truckee River below Tracy, NV	10350400	1,590	Temp.	1972-82
Truckee River right bank below Tracy, NV	10350405	1,590	Temp.	1972-82
Truckee River at Clark, NV	10350500	1,600	S.C.	1984-88
Truckee River at Derby Dam, NV	10351000	1,676	Temp.	1980-81
"A" Drain at powerline crossing near Fernley, NV	10351356	--	Temp., S.C., pH, D.O.	1988-90
Truckee Canal at U.S. 50 above Lahontan Reservoir, NV	10351590	--	Temp.	1980
Truckee River at Wadsworth, NV	10351650	1,728	Temp.	1965-80
McDermitt Creek near McDermitt, NV	10352500	225	Temp.	1975-78
Quinn River near McDermitt, NV	10353500	1,100	Temp., S.C.	1980-83
South Lead Lake-Southwest landing	393652118311201	--	Temp., pH S.C., D.O.	1988-90 1988-89

Abbreviations: D.O., dissolved oxygen; S.C., specific conductance; Temp., water temperature.

WATER RESOURCES DATA - NEVADA, 1992

INTRODUCTION

Water-resources data published herein for the 1992 water year comprise the following records:

- o Water discharge for 141 gaging stations on streams, canals, and drains.
- o Discharge data for 273 peak-flow stations and miscellaneous sites, and 71 springs.
- o Stage and contents for 20 lakes and reservoirs.
- o Water levels for 33 primary observation wells, and 527 secondary observation wells.
- o Water-quality data for 137 stream, canal, and drain sites, and 76 wells.
- o Precipitation totals for 30 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 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, Books and Open-File Reports, Federal Center, Building 810, Box 25425, Denver, CO 80225.

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-92-1." For archiving and general distribution, the reports for water years 1971-74 are also identified 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.

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 1992 are:

Nevada Department of Conservation and Natural Resources
Nevada Division of Water Resources
Nevada Division of Environmental Protection
Nevada Department of Transportation
California Department of Water Resources
Carson-Truckee Water Conservancy District
Carson Water Sub-Conservancy District
Clark County Flood Control District
Clark County Sanitation District
Las Vegas Valley Water District
Summit Lake Paiute Tribe
Tahoe Regional Planning Agency
Truckee-Carson Irrigation District
Walker River Irrigation District
Douglas County
Elko County
Washoe County Department of Comprehensive Planning
Washoe County Public Works Department
City of Carson City
City of Henderson
City of Las Vegas
City of Reno
City of Sparks

The following Federal Agencies assisted in the data-collection program by providing funds or services:

Bureau of Land Management
Bureau of Reclamation
Corps of Engineers, U.S. Army
U.S. Board of Water Commissioners
U.S. Department of Fish and Wildlife
U.S. District Court Watermaster

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Compiled by Robert E. Bostic, E. James Crompton,
Karen A. Mello, and James R. Swartwood

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 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 throughout Nevada continued to experience drought conditions in 1992 for the sixth consecutive year, causing less-than-normal discharge and near-record or record lows for most streams. Most reservoirs were at less than 30 percent of full capacity during the 1992 spring runoff and were near empty at the end of the water year.

The Humboldt River begins in northeastern Nevada and terminates in northwestern Nevada. For water year 1992, the discharge at Palisade (station 10322500) was 22 percent of the 85-year mean. Monthly and annual mean discharges for water year 1992 and for the period of record (water years 1903-06, 1912-92) at the Palisade station are shown in figure 1. Rye Patch Reservoir (station 10334500), the last impoundment on the Humboldt River, was at 11 percent of full capacity at the end of April, and 0.3 percent at the end of September. In July, the reservoir was drained for irrigation purposes.

The Truckee River is another major western Nevada stream for which discharge is significantly controlled by reservoirs and regulated lakes in the Sierra Nevada. The 1992 discharge at Reno (station 10348000) was 18 percent of the 65-year mean (water years 1907-21, 1926, 1931-34, 1947-92). The river terminates in Pyramid Lake (station 10336500), a closed-basin water body similar to Walker Lake. Water-surface elevations, in figure 2, illustrate a decline like that of Walker Lake from 1975 through 1981, an increase during 1982-84, and a steady decline since 1986. The high discharge in the Truckee River from 1982 through 1984 dramatically raised the lake level, by about 25 feet. The lake-surface elevation decreased 3.3 feet during the 1992 water year, from 3,801.2 to 3,797.9 feet above sea level.

The Carson River flows mostly in Nevada, with its headwaters in the Sierra Nevada of California. The 1992 discharge at Carson City (station 10311000) was 26 percent of the 53-year mean. Monthly and annual mean discharges for water year 1992 and for the period of record (water years 1940-92) at the Carson City station are shown in figure 1. Lahontan Reservoir (station 10312100), the major impoundment on the Carson River, reached 30 percent of full capacity during the spring runoff, and 1 percent near the end of July when releases ceased.

The Walker River is formed in Mason Valley by the confluence of the East and West Forks; both forks originate in the Sierra Nevada. The East Fork discharge is controlled by Bridgeport Reservoir and the West Fork by Topaz Lake. The 1992 discharge of the Walker River at Wabuska (station 10301500) was 17 percent of the 67-year mean (water years 1904, 1921-35, 1940-41, 1943, 1945-92). The river terminates in Walker Lake (station 10288500), a saline remnant of ancient Lake Lahontan north of Hawthorne. Water-surface elevations for the lake are shown in figure 2 and illustrate a steady decline from 1969 through 1981. 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. The lake-surface elevation decreased 3.9 feet during the 1992 water year, from 3,953.8 to 3,949.9 feet above sea level.

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 13,960 cubic feet per second. Mean annual discharge fluctuates on the basis of upstream supply and downstream power and irrigation requirements. The 1992 discharge of the Colorado River below Hoover Dam was 79 percent of the 58-year mean (water years 1935-92).

The Virgin River is one of the major tributaries to Lake Mead on the Colorado; at Littlefield, Arizona (station 09415000), its 1992 discharge was 81 percent of the 63-year mean (water years 1930-92).

The Muddy River, another tributary to Lake Mead; at Glendale (station 090419000), its 1992 discharge was 77 percent of the 41-year mean (water years 1951-1983, 1985-92).

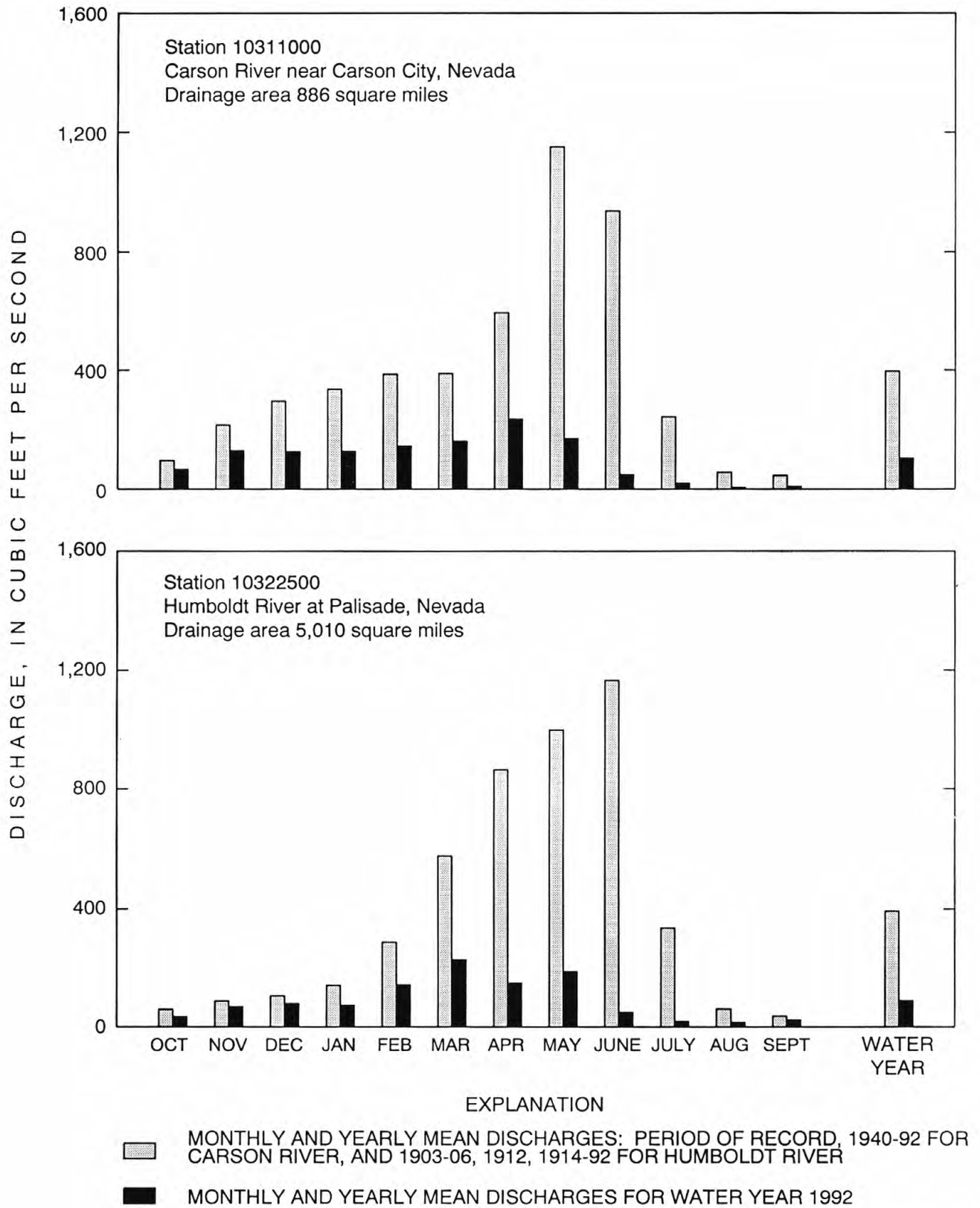


FIGURE 1.--Comparison of discharge during water year 1992 with the long-term mean discharge at two representative gaging stations.

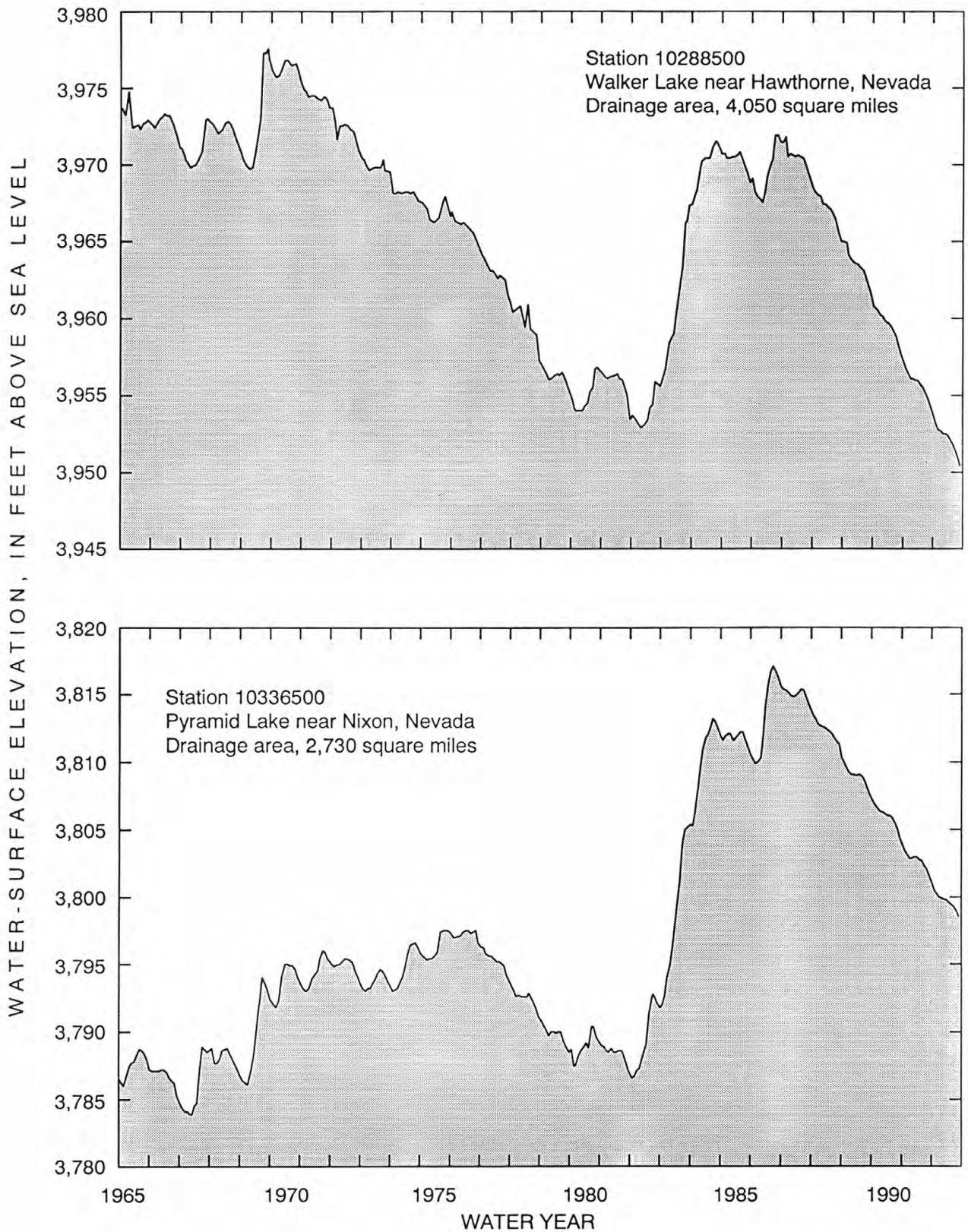


FIGURE 2.--Water-surface elevation at Walker and Pyramid Lakes, water years 1965-92.

Surface-Water Quality

The quality of surface water in Nevada varies greatly from place to place, as well as seasonally. Concentrations of dissolved solids are generally 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.

The ranges of dissolved-solids concentrations for the period of record at stations that are monitored as part of the National Stream Quality Accounting Network (NASQAN) and Hydrologic Bench-Mark Network, are presented in figure 3. Measured concentrations of dissolved solids range from 61 to 704 mg/L at stations in the northern part of the state, and from 433 to 4,250 mg/L at stations in the southern part. Mean concentrations of dissolved solids for the period of record and for the 1992 water year also are indicated in figure 3. Table 1 presents mean discharge and dissolved-solids data for the 1992 water year and compares it to data for the period of record.

At two northern Nevada stations, the Carson River near Fort Churchill (station 10312000) and the Truckee River near Nixon (station 10351700), mean dissolved-solids concentrations in water year 1992 were, respectively, 130 percent and 232 percent of the long-term mean. This reflects the impact of drought-induced low streamflows that characterized the northern part of the state during 1992. During the 1992 water year, discharges at those stations were 20 percent and 5 percent, respectively, of the long-term means.

At two southern Nevada stations, the Virgin River at Littlefield (station 09415000) and the Muddy River above Lake Mead near Overton (station 09419515), mean dissolved-solids concentrations in the 1992 water year were, respectively, 96 percent and 104 percent of the means for the period of record. During the 1992 water year, discharges at those stations were 81 and 82 percent of the long-term means.

At the Colorado River below Hoover Dam (station 09421500), the mean concentration of dissolved solids in the 1992 water year was 93 percent of the mean for the period of record. Annual discharge in water year 1992 was 79 percent of the mean for the period of record (1935-92). Figure 4 shows the dissolved-solids concentrations measured at the Colorado River station since the 1970 water year. The downward trend in concentration during 1983-85 probably was the result of dilution by five consecutive years of greater than average inflow to Lake Mead. During 1988-92, in contrast, the concentration has increased, presumably because the amount of runoff from the upper basin has been less than the long-term mean.

Table 1.--Comparison of streamflow and dissolved-solids concentrations at National network sites for the 1992 water year and for the period of record

Station name and number	Mean discharge (cubic feet per second)		Mean for 1992, as percentage of long-term mean	Mean concentration of dissolved solids (milligrams per liter)		Mean for 1992, as percentage of long-term mean
	Period of record	1992		Period of record	1992	
Virgin River at Littlefield, Ariz. (09415000)	235	191	81	2,000	1,930	96
Muddy River above Lake Mead near Overton (09419515)	8.90	7.31	82	2,310	2,410	104
Colorado River below Hoover Dam, Ariz.-Nev. (09421500)	14,000	11,000	79	698	648	93
Steptoe Creek near Ely (10244950)	7.20	3.00	42	179	175	98
South Twin River near Round Mountain (10249300)	6.43	4.72	73	87	77	88
Walker River near Wabuska (10301500)	165	27.9	17	287	226	79
Carson River near Fort Churchill (10312000)	363	71.8	20	250	324	130
Humboldt River near Carlin (10321000)	373	76.1	20	303	291	96
Truckee River near Nixon (10351700)	506	24.1	5	283	657	232

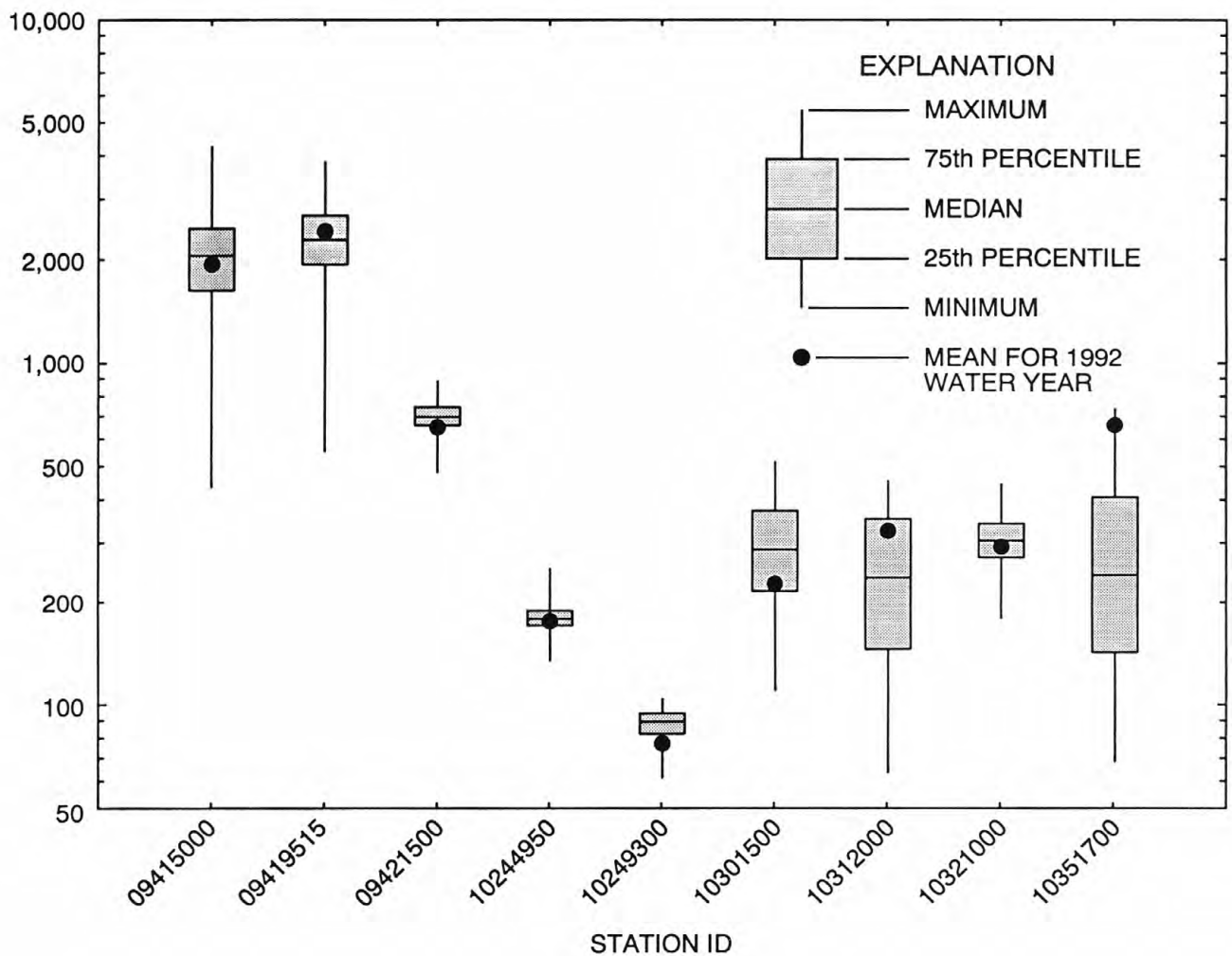


FIGURE 3.--Mean dissolved-solids concentrations at National network sites in 1992, compared with ranges of dissolved-solids for the period of record.

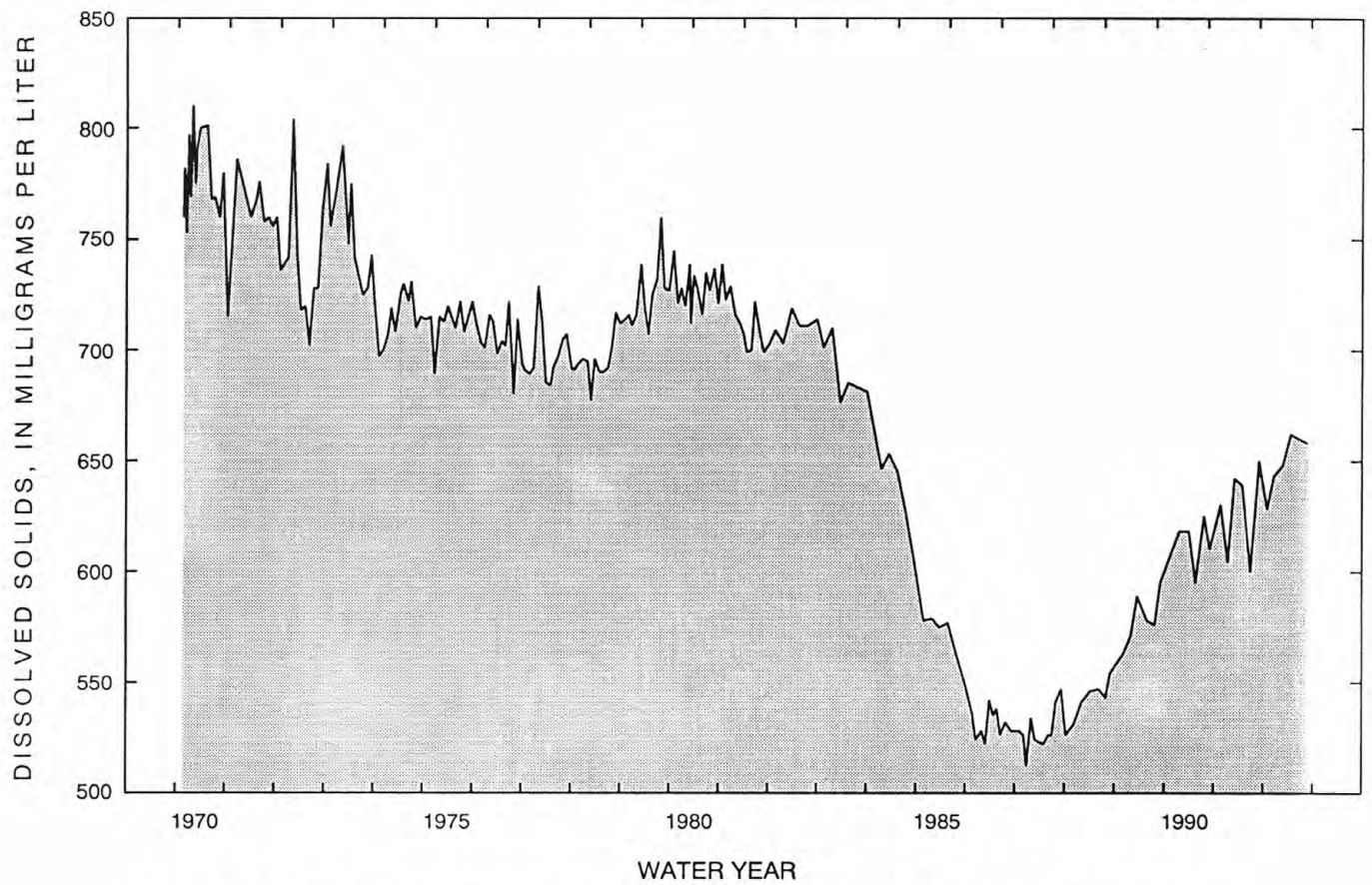


FIGURE 4.--Dissolved-solids concentrations in the Colorado River below Hoover Dam (Station 09421500) for water years 1970-92.

Ground Water

Development of ground-water supplies continued in Nevada during water year 1992 and 2,507 well logs were submitted to the State Engineer's office. This total was the greatest for any year of record (figure 5). Of the logs submitted in 1992, about half were from wells drilled for domestic use (figure 6). The remainder were from wells drilled for exploration and livestock (the category "other" in figure 6), industrial and public supply, and irrigation. Well drilling during 1992 was concentrated in the northwestern and southern parts of the State, particularly near the cities of Reno and Las Vegas (figure 6). Wells drilled in these areas were principally for domestic use. New domestic wells also dominate the drilling in most rural areas. Most of the new irrigation wells were drilled in the rural counties in established agricultural areas.

As in the past, most wells were drilled into unconsolidated sedimentary deposits that partly fill the numerous basins in Nevada. Surrounding the basins are mountains underlain by igneous, metamorphic, and sedimentary rocks. These consolidated rocks also underlie the unconsolidated deposits in the basins. Some consolidated rocks can 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, fractured volcanic rocks also can 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 the basins where water is readily obtained from shallow depths in unconsolidated deposits.

Ground-water levels fluctuate seasonally and annually in response to changes in withdrawals and climatic conditions that 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 mountains and, particularly in the northern part of the State, (2) application of surface water for irrigation. Water levels generally decline during the summer to early winter, when recharge is small and ground water is discharged by evapotranspiration. 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 wells are shown in figure 7. One of the wells (in Paradise Valley) is situated where water levels fluctuate primarily in response to variations in streamflow. Two of the wells (in Pahrump and Diamond Valleys) are near areas of intensive irrigation withdrawals. Two wells (in Carson City and Las Vegas) tap aquifers used for public supply. The sixth well (in White River Valley) shows trends in a less developed basin where the water levels respond primarily to climatic fluctuations.

In the Paradise Valley well, the seasonal pattern and the range of water-level measurements has remained relatively stable since 1965. The well is in the northwestern part of the valley.

The water level in the Carson City well during 1992 continued a general decline that began in 1987. Before that, the level had recovered briefly between 1983 and 1987, following a period of steady decline since 1975, when measurements began. Precipitation in Carson City was above normal between 1982 and 1986 and below normal between 1987 and 1992. The well is on the west side of the city, where cumulative declines due to ground-water withdrawals for municipal use have exceeded 50 feet in some places. Measured water-level declines elsewhere in the basin have been less.

The water level in the Pahrump Valley well declined rapidly in the 1960's in response to irrigation withdrawals. Except for seasonal variations, the water level has been relatively stable since 1974. Land use in the area near the well has changed from primarily agricultural to residential since 1974. The well is in the middle of the valley.

The water level in the Diamond Valley well continued to decline in 1992, following a brief recovery in 1989-90. Prior to that recovery, a slow long-term decline began in the mid-1950's, and accelerated in the early 1970's when electric power became available in the basin and ground-water withdrawals increased. The well is in an area of ground-water withdrawals for irrigation.

The water level in the White River Valley well recovered briefly in 1992, following a general decline during 1986-91 that in turn followed an 8-foot rise between 1982 and 1985 -- a period of wetter-than-normal conditions. The change between 1986 and 1991 may have been a natural decline from elevated levels that developed as a result of the wet years early in the previous decade. Water levels similarly declined from 1971 to 1978 following wetter-than-average years in 1967-70. The well is in the northeastern part of the valley.

The water level in the Las Vegas Valley well declined rapidly in the 1960's and 1970's as population in the valley increased greatly. By 1978, ground-water pumpage had been redistributed and, in part, replaced by use of water from Lake Mead to such an extent that the water-level declines stopped temporarily, and levels rose during 1982 and 1983. In 1992, water levels in the Las Vegas Valley well continued to decline from the level of 1985, probably a combined result of pumping and the very dry water years during 1988-91 in southern Nevada. The well is in the northwest part of the basin several miles from the municipal well field on the west side of the city, and reflects general water-level changes in the principal aquifers on the west side of the basin. Shallow water levels on the east side have been rising, largely because of lawn irrigation.

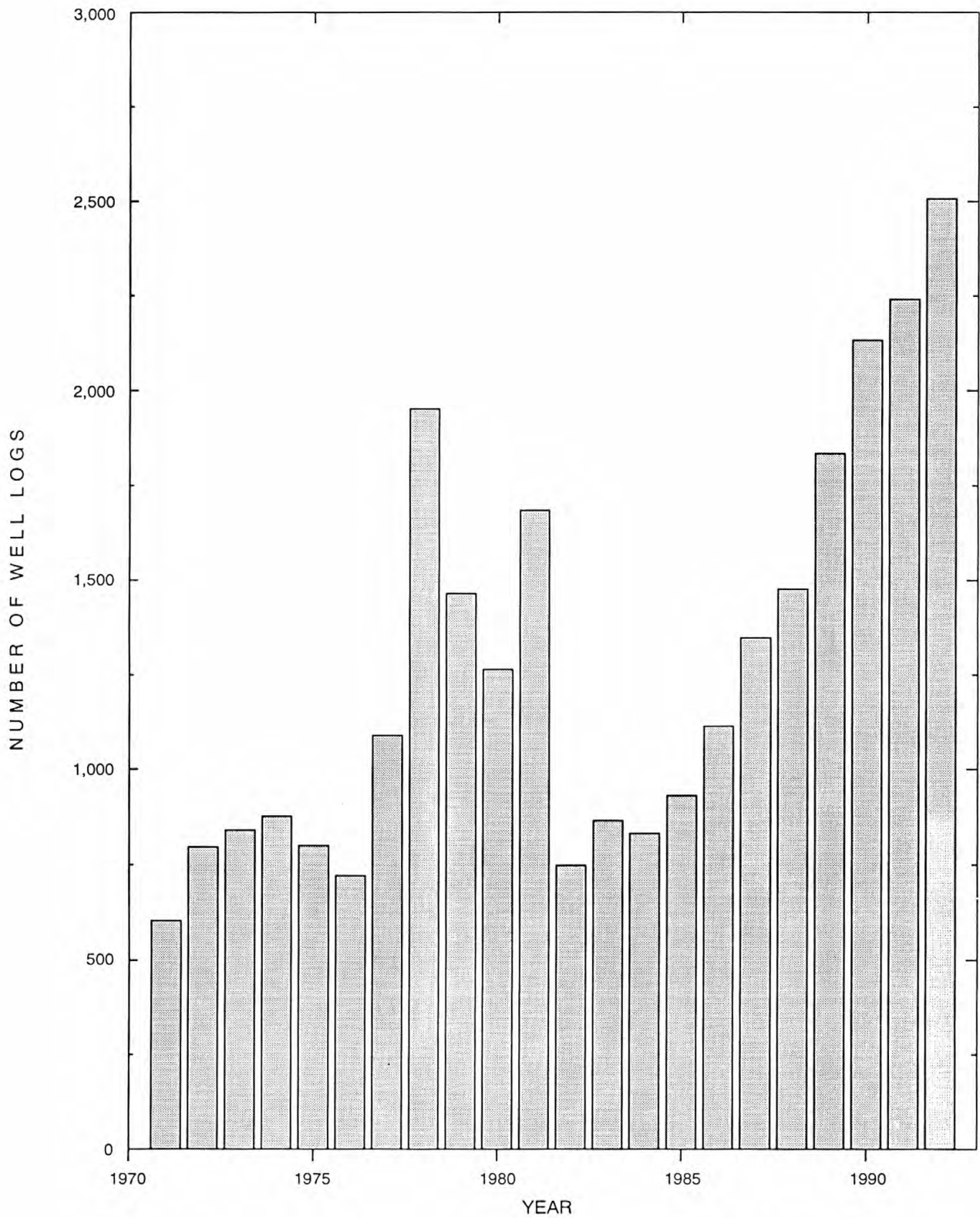


FIGURE 5.--Number of well logs submitted to the Nevada State Engineer's Office during water years 1971-92.

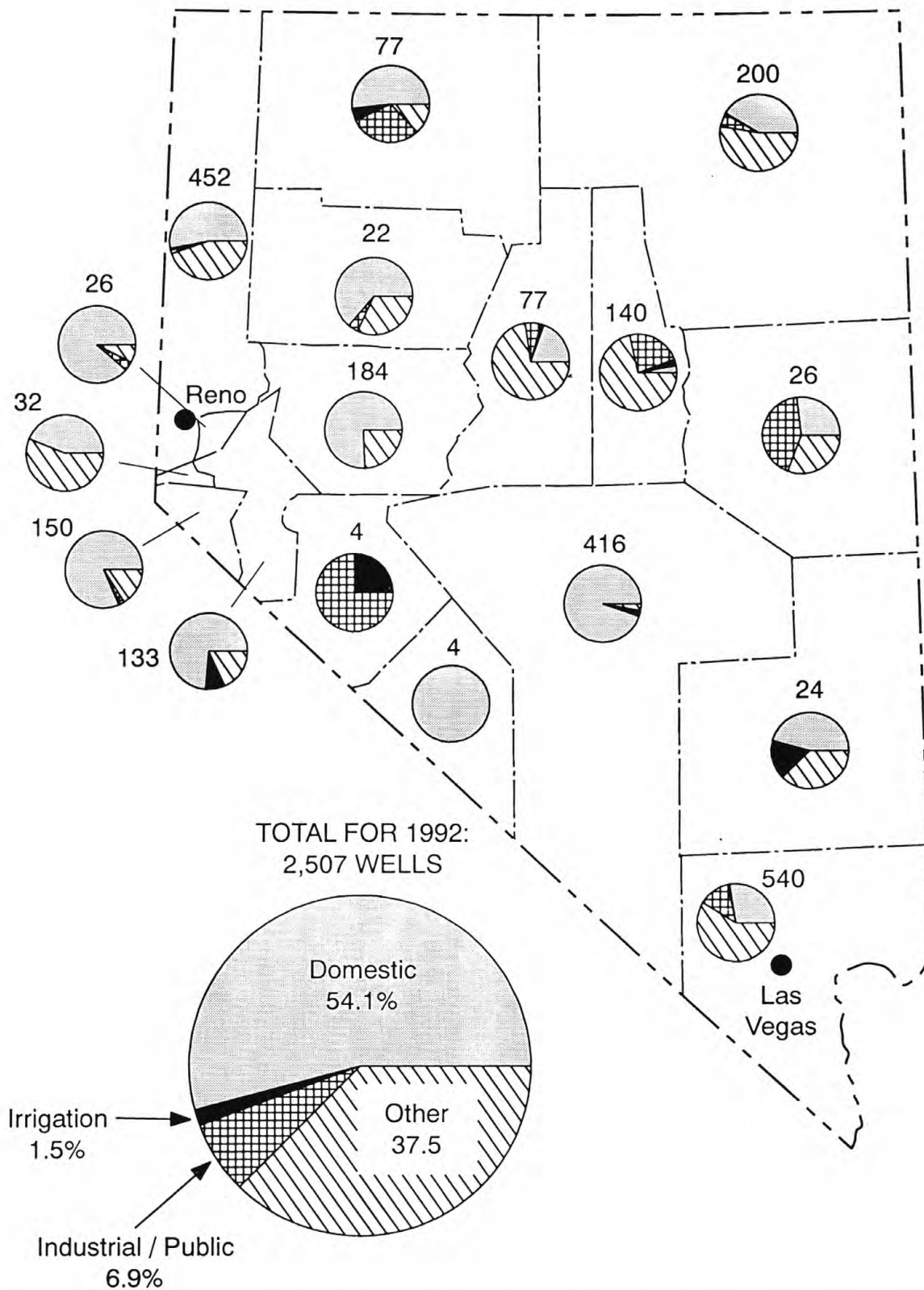


FIGURE 6.--Distribution, by county, of the number and use of wells drilled during water year 1992, on the basis of 2,507 logs submitted to the Nevada State Engineer's office. The category 'other' includes mostly exploration wells. By each county symbol is the number of logs submitted during water year 1992.

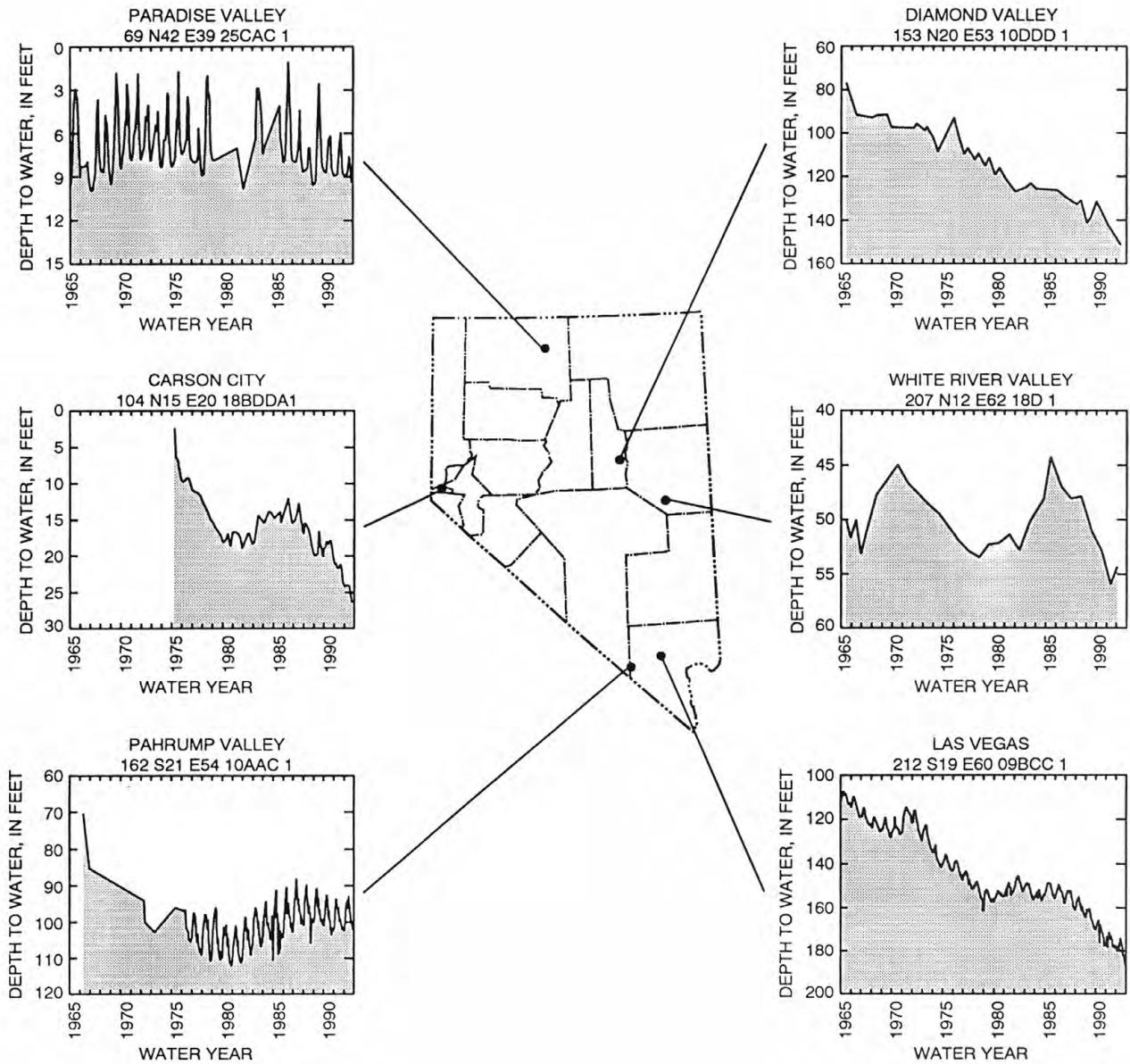


FIGURE 7.--Long-term water-level depths below land surface in six selected observation wells.

Water Use

Water year 1992 (October 1, 1991-September 30, 1992) was a drought year in Nevada--the sixth consecutive year of drought for most areas of the State. Below-normal precipitation produced surface-water supplies that were inadequate to meet the needs of most water users (E.A. Jesse, Nevada Division of Water Planning, oral commun., 1992). Precipitation at six selected sites in Nevada during water year 1992, as reported by the National Weather Service, ranged from 50 percent to about 190 percent of the median value. The Las Vegas station was the only site among the six where total precipitation was greater than the median. This can be attributed to storms in March 1992 which totaled 4.80 inches (which made the total for that month about 4.5 inches above normal). The following table summarizes the data.

Precipitation

Weather station	Water year 1992 (inches)	Median, water years 1962-92 (inches)	Water year 1992, as:	
			Departure from median (inches)	Percentage of median
Elko	6.72	9.43	-2.71	71
Ely	9.10	9.83	-.73	93
Las Vegas	7.63	4.07	+3.56	188
Reno	4.25	6.84	-2.59	62
Tonopah	3.58	5.62	-2.04	64
Winnemucca	4.11	8.15	-4.04	50

In a normal year, surface water is the source for about 75 percent of Nevada's water withdrawals. Overall, surface-water use in 1992 was less than normal (E.A. Jesse, Nevada Division of Water Planning, oral commun., 1992). Users that normally rely on surface water for most of their withdrawals used ground water to help make up the shortfall. However, that option was not widely available, since both a ground-water supply of suitable quality and a ground-water permit are needed.

Irrigation is the largest use of water in Nevada. In 1990, this use accounted for about 84 percent of all offstream withdrawals. Because of the continuing drought, surface-water allocations within irrigation districts were reduced, as was the amount of water delivered to water-right holders. In the Truckee-Carson Irrigation District (TCID), which includes the Newlands Project near Fallon, water allocations for 1992 were 28 percent of normal (Melody Lipnicki, TCID, oral commun., 1992). In the Pershing County Water District, water allocations were 10 percent of normal (Sacramento Bee, 1992). In the Truckee Meadows, the Federal Watermaster stopped the delivery of water to irrigation ditches on June 8, 1992; this was the earliest shutoff date on record. During normal water years, the irrigation ditches run until October 1 (Reno Gazette-Journal, 1992). Governor Bob Miller declared 14 of Nevada's 17 counties as agricultural drought-disaster areas. Governor Miller went on to say that the "The drought experienced in 1992 was the worst year of drought in Nevada's recorded history of water supplies, which began in about 1870," (Nevada Appeal, 1992b).

Public supply is a rapidly growing use of water in the State. In 1990, this use accounted for about 12 percent of all offstream withdrawals. The rate of increase in these withdrawals nearly parallels the rapid growth in the State's population. During 1980-90, Nevada had the fastest rate of population growth in the Nation, with a 50.1-percent increase (U.S. Bureau of the Census, 1991, p. 2). In July 1992, Nevada's population was estimated to be 1,342,090 people (Maud Noroll, Nevada State Demographer, oral commun., 1992).

The three largest population centers in the State are the Las Vegas, Reno, and Carson City areas; in 1990, about 80 percent of the State's population lived in these three areas. The amount of water withdrawn by the principal public-supply utilities servicing each of these areas for the period from October 1982 to September 1992 is shown in figure 8. In 1990, these three areas accounted for about 83 percent of all the water withdrawn by public-supply utilities in the State. The small peak for the January billing period, seen at all three areas for some years, indicates, in part, increased water use by tourists during the Christmas and New Year's holidays.

The primary source of water for Las Vegas and Reno is surface water; for Carson City, it is ground water (E.A. Jesse, Nevada Division of Water Planning, oral commun., 1992). In the Las Vegas area, the Colorado River is the principal source of public-supply water. Las Vegas is becoming increasingly dependent on the Colorado River to meet its public-supply water needs. In 1974, surface- and ground-water withdrawals were about equal; in 1992, surface-water was the source for nearly 85 percent of the City's public-supply withdrawals. Over 60 percent of the water used in Las Vegas is for residential use, and about 8 percent is used by hotels and motels (Las Vegas Valley Water District, 1992a). Among the water-conservation measures taken in the Las Vegas area: Restaurants were asked to serve water on request only; no outside watering was permitted from Noon to 7 p.m.; and some communities in the area have placed restrictions on the size of outside decorative water displays and the percentage of turf that can be used in commercial and industrial areas. Las Vegas Valley Water District is actively seeking over 800,000 acre-feet per year of surface- and ground-water rights to meet projected demands.

In the Reno area, the Truckee River accounts for 80 percent of the water used for public supply. Winters with below-normal snowpacks (such as during this water year) cause below-normal streamflows for the rest of the year, resulting in both increased ground-water withdrawals and restrictions on the amount of use. In 1992, the Truckee River accounted for about 70 percent of Reno's public-supply water. The Reno area has been on Stage-II water restrictions since June 4, 1990, which means that: Outside watering is limited to twice a week; washing down hard surfaces is prohibited; decorative water displays are turned off; and water in restaurants is served on request only. On July 13, 1992, heavy rains in the Sierra Nevada caused higher-than-normal sediment loads in the Truckee River. Because of the short settling cycle used at Reno's four water-treatment plants, the plants had to be shut down to prevent system failure. Later, the plants were operated at reduced capacity. As a result, during July 14-18, all outdoor use of water in the Truckee Meadows area was prohibited. In the community of Mogul, west of Reno, partially treated water was added to the public-supply system to maintain water pressure. This resulted in the residents having to boil their drinking and cooking water. Lake Tahoe, the source of the Truckee River, has remained below its natural rim since September 16, 1990. (No water has been pumped out of the Lake to meet downstream needs.)

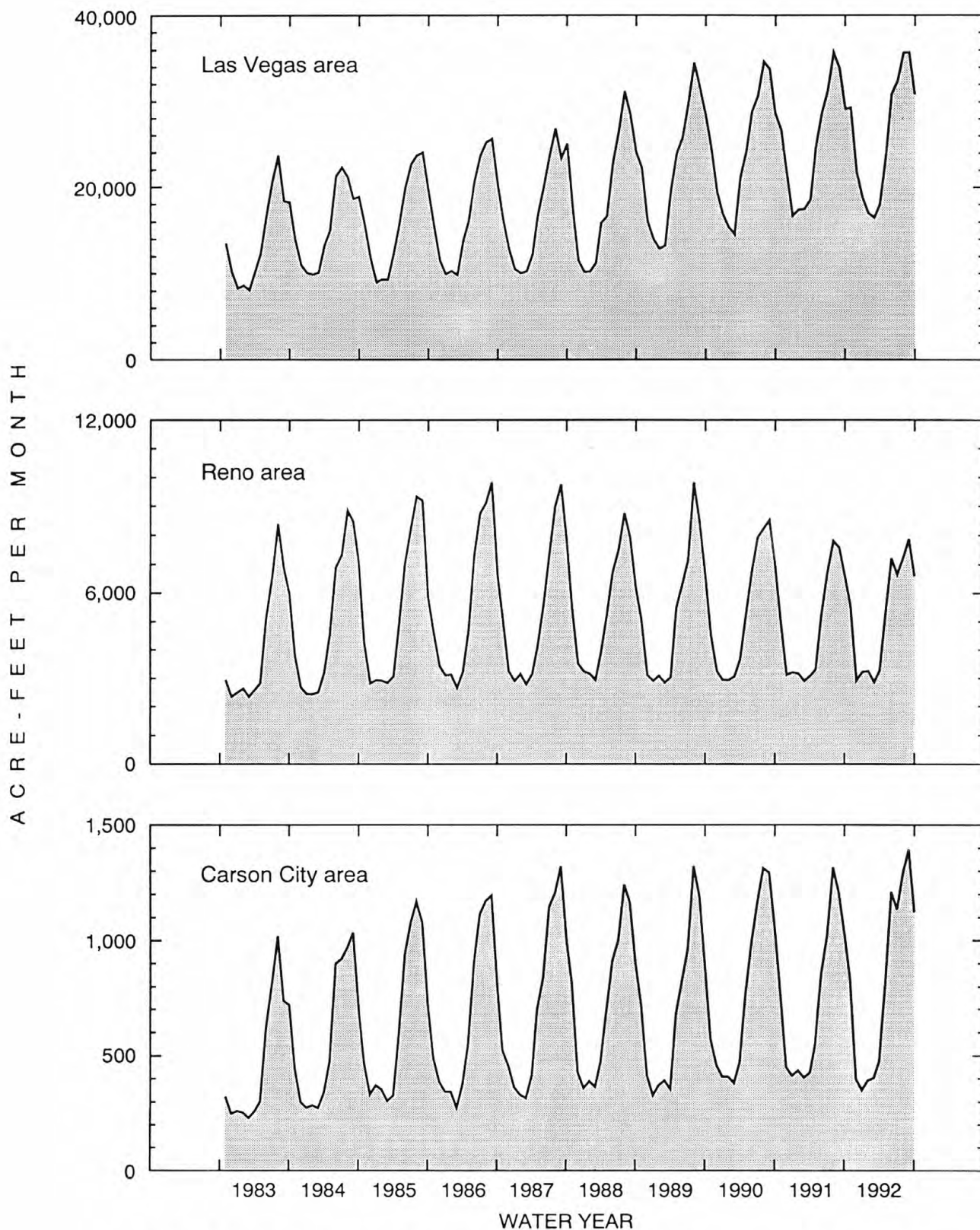


FIGURE 8.--Monthly water withdrawals for public supply in the Las Vegas, Reno, and Carson City areas, 1983-92. Sources of data: Las Vegas area--City of North Las Vegas, Colorado River Commission, Las Vegas Valley Water District, and Nellis Air Force Base; Reno area--Westpac Utilities; and Carson City area--City of Carson City.

Ground water is the source for about 80 percent of Carson City's public water supply. During drought years, this percentage increases; in 1992, ground-water withdrawals accounted for 89 percent of the City's public-supply water. A 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. Carson City is actively seeking surface-water rights and leases to reduce the amount of ground-water use.

Water rates differ between communities, and are based on several factors that include treatment costs, capital improvements, and acquisition of water rights. In Las Vegas, homes and businesses are equipped with water meters, and water rates are based on a two-tiered structure (Las Vegas Valley Water District, 1992b). For a three-fourths-inch water line, the rate for the first 30,000 gallons is \$0.98 per 1,000 gallons. The rate for deliveries above that amount is \$1.16 per 1,000 gallons. In Las Vegas, residential and commercial rates are the same. In Reno-Sparks, homes are either metered (about 7,000 homes are metered, and it is required for all homes constructed after 1988) or unmetered (about 45,000 homes and apartments are unmetered), and all businesses are metered (Blue Ribbon Drought Task Force, 1992). Residential metered rates are based on a two-tiered structure; residences without meters have a flat rate for unlimited use (Jim Clark, Westpac Utilities, oral commun., 1992). For metered homes with a three-fourths-inch water line, the rate for the first 6,000 gallons is \$1.27 per 1,000 gallons. The rate for deliveries above that amount is \$1.57 per 1,000 gallons. For unmetered homes with a three-fourths-inch water line, the rate is \$31.90 per month. In Carson City, homes and businesses are equipped with water meters. Residential water rates are based on a four-tiered structure (Dorothy Timian-Palmer, Carson City Utility Department, oral commun., 1992). For homes equipped with a three-fourths-inch water line, the rate increases as follows:

Gallons of water used	Cost per 1,000 gallons
First 5,000	\$0.32
Next 10,000	\$.48
Next 35,000	\$.65
Over 50,000	\$1.30

Commercial water rates in Carson City are higher than residential rates.

The State's wildlife continues to be affected by the drought. The *Cui-ui*, an endangered fish species found only in Pyramid Lake (figure 9), have not been able to swim up the Truckee River to spawn since 1987 because of low streamflows. In the last 5 years, Pyramid Lake has dropped 17 feet (figure 2). Since 1991, the Truckee-Carson Irrigation District has agreed to leave 4,000 acre-feet of water in Lahontan Reservoir for fish habitat. In mid-July, the Pershing County Water District drained the remaining storage in Rye Patch Reservoir (for the first time since 1961), resulting in the death of an estimated 500,000 to 1,500,000 fish (Sacramento Bee, 1992). The Ruby marshes, within the Ruby Lake National Wildlife Refuge, have dwindled to their lowest level in 31 years (Nevada Appeal, 1992a). Stillwater wetlands continued to dwindle despite the purchase and diversion of agricultural water for use at the wetlands. In 1992, the wetlands covered only 300 acres; in contrast, the permanent wetlands, historically, have averaged 15,500 acres (A.R. Hallock, U.S. Fish and Wildlife Service, oral commun., 1992). Washoe Lake, 20 miles south of Reno, has been dry since June 1991. Normally, the lake covers about 4,000 acres (Rush, 1967, p. 11).

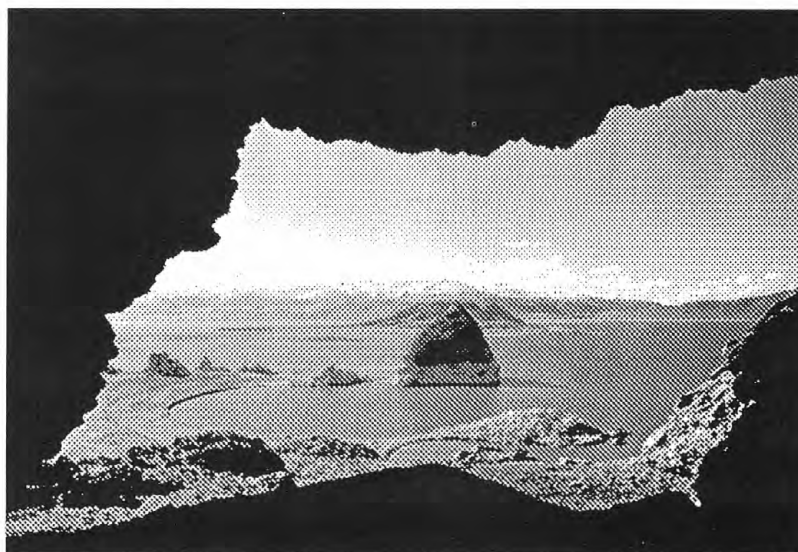


Figure 9.--Pyramid Lake, with The Pyramid and, behind it, Anaho Island; view south-southwest, in 1972. (Photograph by Steve Van Denburgh, U.S. Geological Survey.)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 58 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream-Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 408 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Trends Network (NTN) is a network of about 195 sites for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust particles, aerosols, and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program (NADP).

High-Elevation Precipitation Network is a 12-station network for measuring precipitation in the high mountains of eastern Nevada. The data will be used to estimate snowmelt runoff and ground-water recharge.

Truckee and Carson River Low-Flow Investigation is a 115-station network for measuring gains and losses of streamflow along the Truckee River during drought years. Selected water-quality samples were also collected at these sites.

Douglas County Ground Water is a network of 56 ground-water sites where water-level and water-quality data are routinely collected, principally in Carson Valley, western Nevada. The data will be used to establish background information to determine if changes in quantity or quality of the ground water occurs.

Lake Tahoe Basin study is a network of 27 surface-water and 34 ground-water sites where streamflow, water-level, and water-quality data are routinely collected around Lake Tahoe. 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. The ground-water data will be used to determine possible long-term changes in water-level and ground-water quality.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1991 water year that began October 1, 1990, and ended September 30, 1991. 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 9-15. 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 streamsite 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 main-stream station are listed before that station. A station on a tributary that enters between two main-stream 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 indentation in the list of gaging stations. Each indentation represents one rank. This downstream order and system of indentation 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 8-digit 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-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 approximately 250 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. 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 Mason Valley (hydrographic area 108) located within the NE1/4NE1/4SW1/4SW1/4 section 6, Township 13 North, Range 26 East, would have the number 108 N13 E26 06CCAA1. A second well within the same 2.5-acre tract would be numbered 108 N13 E26 06CCAA2.

Prior to January 1976, local site numbers in Nevada were published according to the following general format: 13/26-16abl. 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 relationships 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 relationship 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 analog recorders that trace continuous graphs of stage or with recorders 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 A6.

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 relationship 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 relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. 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 relationships 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 various 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 new format that is considerably 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 various 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 various 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 varies from one drainage basin to another, the accuracy of drainage areas likewise varies. 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 is also 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 man. 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 is 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

Headings for the AVERAGE DISCHARGE and EXTREMES FOR PERIOD OF RECORD have been deleted and the information contained in these paragraphs is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

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 of 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 of 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 of 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 also given. 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 various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, 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 that is exceeded by 10 percent of the flow for the designated period.

50 PERCENT EXCEEDS.--The discharge that is exceeded by 50 percent of the flow for the designated period.

90 PERCENT EXCEEDS.--The discharge that is exceeded by 90 percent of the flow 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 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/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 14-17.

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 water quality 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 table 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 onsite 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 onsite 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 of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. 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.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the Nevada District Office whose address is given on the back of the title page of this report.

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, mean, maximum and minimum 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

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. 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; Book 5, Chap. A1, A3, and A4.

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 various 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, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. 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 insure 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:

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
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.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Present data above the $\mu\text{g/L}$ level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes. However, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U. S. Geological Survey will begin using new trace-element protocols in water year 1994.

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 tape or from the graph or punched tape of a water-stage recorder. 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 in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

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 various headings.

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.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both 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 both 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. For wells equipped with recorders, only abbreviated tables are published; generally, only water-level means are listed for every fifth day and at the end of the month (eom). 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 Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. 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. 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 in a section titled QUALITY OF GROUND WATER immediately following the 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.

ACCESS TO WATSTORE DATA

The National WATER Data STORage and RETrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

In addition, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and as noted in the introduction, on CD-ROM disks. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disk-Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District Offices. (See address on the back of the title page.) A limited number of CD-ROM disks will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

Terms related to data on surface water, ground water, and water quality are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

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

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

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 3°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 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often 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.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which 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.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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 micro-organisms, such as bacteria.

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

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. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square mile (g/mi²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, 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.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which 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, usually milliliters (mL) or liters (L).

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

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

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second per day 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, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,445 cubic meters.

Cubic feet per second per square mile [(ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Annual 7-day minimum is 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.)

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

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water 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 of dissolved solids, half of the bicarbonate (generally a major dissolved component of water) is converted to carbonate and the other half is lost as water vapor and carbon dioxide gas. Therefore, in the mathematical calculation of dissolved-solids concentrations, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the loss and to thereby make calculated and "residue-on-evaporation" values comparable.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate (CaCO₃).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

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.

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) 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 liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity.

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 (m²), 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.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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 used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. 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.

Percent composition 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, mass, or volume.

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

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 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.

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 are commonly known as algae.

Blue-green algae 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.

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.

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.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often 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.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic 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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m².time)] for periphyton and macrophytes and [mg C/(m³.time)] for phytoplankton are units for expressing primary productivity. They define 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 in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O₂/(m².time)] for periphyton and macrophytes and [mg O₂/(m³.time)] for phytoplankton are the units for expressing primary productivity. They define 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.

Recoverable from 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.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

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 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft³/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Seven-day 10-year low flow (7 Q₁₀) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent 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.

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

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.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which 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 taken. 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.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) 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 associated with 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 water-suspended sediment sample that is retained on a 0.45-um 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 analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-um membrane filter. 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 determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical 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.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings 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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 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) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment 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 all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment 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, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

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).

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

Water year in Geological Survey 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, 1991, is called the "1991 water year."

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.

REFERENCES CITED

- Blue Ribbon Drought Task Force, 1992, Water, The facts of life...: Reno, Nev., Reno Gazette-Journal, October 11, 1992, p. 10B.
- Las Vegas Valley Water District, [1992a?], Residential handbook: Las Vegas, Nev., Las Vegas Valley Water District, 43 p.
- Las Vegas Valley Water District, [1992b], Water rates and billing information: Las Vegas, Nev., Las Vegas Valley Water District, 2 p.
- Nevada Appeal, 1992a, Ruby marshes dry up: Carson City, Nevada Appeal, November 9, 1992, p. A7.
- Nevada Appeal, 1992b, Drought costs millions: Carson City, Nevada Appeal, November 25, 1992, p. A8.
- Reno Gazette-Journal, 1992, Water cutoff--Irrigation ditches go dry Monday: Reno, Nev., Reno Gazette-Journal, June 4, 1992, p. 1A.
- Rush, F.E., 1967, Water-resources appraisal of Washoe Valley, Nevada: Carson City, Nevada Department of Conservation and Natural Resources, Water Resources-Reconnaissance Series Report 41, 39 p.
- Sacramento Bee, 1992, Acres of rotting fish point to drained Nevada reservoir: Sacramento, Calif., Sacramento Bee, July 27, 1992, p. 1A.
- U.S. Bureau of the Census, 1991, 1990 Census profile: 1990 Census Profile no. 1, 4 p.

WATER-RELATED PUBLICATIONS FOR NEVADA COMPLETED BY THE
U.S. GEOLOGICAL SURVEY DURING WATER YEAR 1992

- Andraski, B.J., 1991, Vegetation and land-disturbance effects on recharge potential, **AMARGOSA DESERT**, Nevada [abs.]: Agronomy Abstracts, American Society of Agronomy, 1991 Annual Meetings, Denver, Colo., October 1991, p. 212.
- 1992, Water movement through soil at a low-level radioactive-waste site in the **AMARGOSA DESERT**: U.S. Geological Survey Yearbook Fiscal Year 1991, p. 73-75.
- Berger, D.L., and Andraski, B.J., 1991, Simulation of ground-water recharge through eolian deposits in an arid basin, **NORTHWESTERN NEVADA** [abs.]: Agronomy Abstracts, American Society of Agronomy, 1991 Annual Meetings, Denver, Colo., October 1991, p. 214.
- Bunch, R.L., 1992, Bibliography of selected water-resources publications on **NEVADA** by the U.S. Geological Survey, 1885 through 1991: U.S. Geological Survey Open-File Report 92-42, 43 p.
- Burbey, T.J., 1991, Water-level and pumpage data for **LAS VEGAS VALLEY**, Clark County, Nevada, 1986-90: U.S. Geological Survey Open-File Report 91-496, 122 p.
- Carlsen, C.L., Lunnis, R.C., and Prudic, D.E., 1991, Changes in water levels and water quality in shallow ground water, **PITTMAN-HENDERSON AREA**, Clark County, Nevada, resulting from diversion of industrial cooling water from ditch to pipeline in 1985: U.S. Geological Survey Water-Resources Investigations Report 89-4093, 69 p.
- Cartier, K.D., Peltz, L.A., and Long, K.F., 1992, Tahoe Environmental Geographic Information System, **LAKE TAHOE** Basin, California and Nevada [abs.]: American Institute of Petroleum Geologists, Program with Abstracts, Lake Tahoe, September 1992, p. 11.
- Cartier, K.D., and Watson, J.C., 1992, Relational data-base management system for **NEVADA** water-rights information, in Balthrop, B.H., and Baker, E.G., eds., U.S. Geological Survey National Computer Technology Meeting--Program and Abstracts, Norfolk, Virginia, May 17-22, 1992: U.S. Geological Survey Open-File Report 92-62, p. 5.
- Coe, J.A., 1992, Photogrammetric analysis of modern hillslope erosion at **YUCCA MOUNTAIN**, Nevada [abs.]: Geological Society of America, Abstracts with Programs, v. 24, no. 7, p. A296.
- Coe, J.A., Whitney, J.W., and Glancy, P.A., 1991, Volumetric analysis of debris eroded off a hillslope near **YUCCA MOUNTAIN**, Nevada, during a single precipitation event [abs.]: Eos, American Geophysical Union Transactions, v. 72, no. 44/Supplement--1991 Fall Meeting Program and Abstracts, p. 204.
- Cole, J.C., Sawyer, D.A., Lacznik, R.J., and Trudeau, D.A., 1991, The hydrogeologic view of containment [abs.]: Sixth Symposium on Containment of Underground Nuclear Explosions, Reno, Nev., Proceedings, Lawrence Livermore National Laboratory, CONF-9109114, p. 175.
- Czarnecki, J.B., Kroitoru, Levy, Ronen, Daniel, and Margaritz, Mordeckai, 1992, Does localized recharge occur at a discharge area within the ground-water flow system of **YUCCA MOUNTAIN**, Nevada: Waste Management 1992, Working Toward a Cleaner Environment, Proceedings, March 1992, Tucson, Ariz., v. 1, p. 953-958.
- Dettinger, M.D., 1992, Geohydrology of areas being considered for exploratory drilling and development of the carbonate-rock aquifers in **SOUTHERN NEVADA**--Preliminary assessment: U.S. Geological Survey Water-Resources Investigations Report 90-4077, 35 p.
- Dettinger, M.D., and Jeton, A.E., 1992, Simulated streamflow responses to climate change in the American and Carson Rivers of the **SIERRA NEVADA**, California and Nevada [abs.]: 9th Annual Pacific Climate Workshop (PACLIM), Asilomar, Calif., April 1992, p. 92.
- Faunt, C.C., Kolm, K.E., and Gutentag, E.G., 1991, Characterizing the distribution of pedogenic carbonates using a geographic information system and a carbonate accumulation program, **AMARGOSA DESERT**, Nevada [abs.]: Geological Society of America Abstracts with Programs, v. 23, no. 5, p. A 411.
- Foglesong, M.T., 1991, Water-related scientific activities of the U.S. Geological Survey in **NEVADA**, fiscal years 1989-90: U.S. Geological Survey Open-File Report 91-516, 82 p.
- Garcia, K.T., Gortsema, G.C., Pennington, R.N., and Preissler, A.M., 1992, Water resources data, **NEVADA**, water year 1991: U.S. Geological Survey Water-Data Report NV-91-1, 481 p.:
- Glanzman, V.M., 1991, Bibliography of publications related to the **YUCCA MOUNTAIN** Site Characterization Project prepared by U.S. Geological Survey personnel through April 1991: U.S. Geological Survey Open-File Report 91-341, 52 p.
- Jeton, A.E., 1992, Calibration of two **SIERRA NEVADA** watersheds and application of a geographic information system to model parameterization [abs.]: 9th Annual Pacific Climate Workshop (PACLIM), Asilomar, Calif., April 1992, p. 33.
- Johnson, M.J., 1992, Quantifying evapotranspiration in desert environments [abs.]: American Institute of Professional Geologists, Program with Abstracts, Lake Tahoe, September 1992, p. 13.
- Kume, Jack, and Rousseau, J.P., 1992, Characterization of liquid-water percolation in tuffs in the unsaturated zone, **YUCCA MOUNTAIN**, Nye County, Nevada, in Erickson, J.M., and Hoganson, J.W., eds., Proceedings of the F.D. Holland, Jr., Geological Symposium, April 14-15, 1989: Grand Fords, N.D., North Dakota Geological Survey Miscellaneous Series No. 76, p. 297-301.

- Kume, Jack, Rousseau, J.P., and Kurzmack, M.A., 1991, Prototype instrumentation in G-Tunnel underground facility in support of site characterization of unsaturated zone percolation at **YUCCA MOUNTAIN**, Nye County, Nevada [abs.]: American Geophysical Union Fall Meeting, Eos Supplement, October 29, 1991, p. 184.
- Lico, M.S., 1992, Data for radon-222 and other radionuclides in ground-water, **NEVADA**, 1986-89: U.S. Geological Survey Open-File Report 91-488, 17 p.
- Lico, M.S., 1992, Detailed study of irrigation drainage in and near wildlife management areas, west-central Nevada, 1987-90--Part A. Water quality, sediment composition, and hydrogeochemical processes in **STILLWATER AND FERNLEY WILDLIFE MANAGEMENT AREAS**: U.S. Geological Survey Water-Resources Investigations Report 92-4024A, 65 p.
- Lico, M.S., and Rowe, T.G., 1991, Radon in ground water of **CARSON VALLEY**, west-central Nevada, in Gundersen, L.C.S., and Wanty, R.B., eds., Field studies of radon in rocks, soils, and water: U.S. Geological Survey Bulletin 1971, p. 279-288.
- Liebermann, T.D., Ciegler, J.C., and Lambert, S.C., 1992, Display and query of a "near real-time" hydrologic alert network, in Balthrop, B.H., and Baker, E.G., U.S. Geological Survey National Computer Technology Meeting--Program and Abstracts, Norfolk, Virginia, May 17-22, 1992: U.S. Geological Survey Open-File Report 92-62, p. 19.
- 1992, Interactive display and query of near real-time data from a hydrologic alert network, in Geography brings us together: Twelfth Annual Environmental Systems Research Institute User Conference, Palm Springs, Calif., June 1992, Proceedings, v. III, p. 139-149.
- Marshall, B.D., Whelan, J.F., Peterman, Z.E., Futa, Kiyota, Mahan, S.A., and Stuckless, J.S., 1992, Isotopic studies of fracture coatings at **YUCCA MOUNTAIN**, Nevada, USA: 7th International Symposium on Water-Rock Interaction, Proceedings, Park City, Utah, July 1992, p. 737-740.
- Maurer, D.K., 1992, Documentation of model input and output values for simulation of ground-water flow in **CARSON VALLEY**, Douglas County, Nevada, and Alpine County, California: U.S. Geological Survey Open-File Report 91-537, 5 p. and diskette.
- 1992, Hydrogeology of the **GENOA** quadrangle, Nevada: Nevada Bureau of Mines and Geology Urban Maps Series, Genoa Folio, scale 1:24,000.
- Maurer, D.K., and Moffatt, R.L., 1992, General hydrology of the **VISTA** quadrangle [Nevada]: Nevada Bureau of Mines and Geology Urban Maps Series, Vista Folio, scale 1:24,000.
- Meyer, D.F., and Berger, D.L., 1992, Flood and related debris hazards in the **GENOA** quadrangle, west-central Nevada: Nevada Bureau of Mines and Geology Open-File Report 92-2, 22 p.
- 1992, Flood and related debris-flow hazards, **GENOA** quadrangle [Nevada]: Nevada Bureau of Mines and Geology Urban Maps Series, Genoa Folio, Map 1C1, scale 1:24,000.
- Moosburner, Otto, Williams, R.P., James, John, and Turnipseed, Michael, 1991, **NEVADA** floods and droughts, in Paulson, R.W., Chase, E.B., Roberts, R.S., and Moody, D.W., compilers, National water summary, 1988-89--Hydrologic events and floods and droughts: U.S. Geological Survey Water-Supply Paper 2375, p. 385-392.
- Nelson, P.H., Muller, D.C., Schimschal, Ulrich, and Kibler, J.E., 1991, Geophysical logs and core measurements from forty boreholes at **YUCCA MOUNTAIN**, Nevada: U.S. Geological Survey Geophysical Investigations Map GP-1001, 10 sheets.
- O'Brien, G.M., 1992, Earthquake-induced water-level fluctuations at **YUCCA MOUNTAIN**, Nevada: Journal of Physical Research, v. 97, no. B5, p. 6823-6841.
- Peters, C.A., Yang, I.C., Higgins, J.D., and Burger, P.A., 1992, A preliminary study of the chemistry of pore water extracted from tuff by one-dimensional compression: 7th International Symposium on Water-Rock Interaction, Proceedings, Park City, Utah, July 1992, p. 741-745.
- Plume, R.W., and Stone, W.J., 1992, Hydrogeologic setting of the **CARLIN TREND**, northeastern Nevada: Society for Mining, Metallurgy, and Exploration, Inc., Preprint number 92-27, 6 p.
- Pupacko, Alex, 1992, Potential effects of climate change on a windward and on a leeward drainage basin in the northern **SIERRA NEVADA** [abs.]: 9th Annual Pacific Climate Workshop (PACLIM), Asilomar, Calif., April 1992, p. 10.
- Rautman, C.A., Flint, A.L., and Chornack, M.P., 1991, Micro-stratigraphic units and spatial correlation of hydrologic properties in tuff, **YUCCA MOUNTAIN**, Nevada [abs.]: Geological Society of America Abstracts with Programs, p. A 119.
- Rousseau, J.P., Thordarson, William, Kume, Jack, and Kurzmack, M.A., 1991, Thermodynamic processes of liquid and vapor movement in **RAINIER MESA**, G-Tunnel underground facility, **NTS**, Nevada [abs.]: Geological Society of America Abstracts with Programs, p. A 120.
- Rowe, T.G., Lico, M.S., Hallock, R.J., Maest, A.S., and Hoffman, R.J., 1991, Physical, chemical, and biological data for detailed study of irrigation drainage in and near **STILLWATER, FERNLEY, AND HUMBOLDT WILDLIFE MANAGEMENT AREAS** and **CARSON LAKE**, west-central Nevada, 1987-89: U.S. Geological Survey Open-File Report 91-185, 199 p.
- Savard, C.S., 1992, Looking for chaos in streamflow with discharge derivative data [abs.]: Eos, American Geophysical Union Transactions, Supplement v. 73, no. 14, p. 50.
- Schaefer, D.H., Morris, T.M., and Dettinger, M.D., 1992, Hydrogeologic and geophysical data for selected wells and springs in the **SHEEP RANGE** area, Clark and Lincoln Counties, Nevada: U.S. Geological Survey Open-File Report 89-425, 26 p.

- Schaefer, D.H., and Whitney, Rita, 1992, Geological framework and ground-water conditions in basin-fill aquifers of the **DAYTON VALLEY AND CHURCHILL VALLEY** hydrographic areas, western Nevada: U.S. Geological Survey Water-Resources Investigations Report 91-4072, 12 p.
- Schmidt, M.R., Kolm, K.E., and Flint, A.L., 1992, Use of statistically distinct genesis-lithology-qualifier map units for classifying upland soils at **YUCCA MOUNTAIN**, Nevada, by geomorphology and physical properties affecting infiltration: Bulletin of the Association of Engineering Geologists, v. XXIX, no. 1, p. 33-47.
- Soeder, D.J., Flint, L.E., Flint, A.L., 1991, Laboratory analysis of porosity and permeability in unsaturated tuffs at **YUCCA MOUNTAIN**, Nevada [abs.]: Geological Society of America Abstracts with Programs, p. A 186.
- Stuckless, J.S., Peterman, Z.E., and Muhs, D.R., 1991, U and Sr in ground water and calcite, **YUCCA MOUNTAIN**--Evidence against upwelling water: Science, v. 254, no. 5031, October 25, 1991, p. 551-554.
- Thodal, C.E., 1992, Data on ground-water quality, **CARSON VALLEY AND TOPAZ LAKE** areas, Douglas County, Nevada, for year ending September 1987: U.S. Geological Survey Open-File Report 90-146, 44 p.
- Thodal, C.E., 1992, Geophysical, hydrogeologic, and water-quality data for areas tributary to **LAKE TAHOE** in Douglas County and Carson City, Nevada, through 1987: U.S. Geological Survey Open-File Report 89-263, 32 p.
- Touray, K.S., Lowery, B., and Andraski, B.J., 1991, Soil water content, potential, availability as affected by soil erosion [abs.]: Agronomy Abstracts, American Society of Agronomy, 1991 Annual Meetings, Denver, Colo., October 1991, p. 343.
- Wittwer, C.S., Bodvarsson, G.S., Chornack, M.P., Flint, A.L., Flint, L.E., Lewis, B.D., Spengler, R.W., and Rautman, C.A., 1992, Design of a three-dimensional site-scale model for the unsaturated zone at **YUCCA MOUNTAIN**, Nevada: Third International Radioactive Waste Management Conference, Proceedings, April 1992, Las Vegas, Nev., v. 1, p. 263-271.
- Wood, J.L., and Fischer, J.M., 1992, Selected meteorological data for an arid site near **BEATTY**, Nye County, Nevada, calendar year 1987: U.S. Geological Survey Open-File Report 92-59, 27 p.
- Wood, J.L., Hill, K.J., and Andraski, B.J., 1992, Selected meteorological data for an arid site near **BEATTY**, Nye County, Nevada, calendar year 1988: U.S. Geological Survey Open-File Report 92-61, 27 p.
- Yang, I.C., 1992, Flow and transport through unsaturated rock--Data from two test holes, **YUCCA MOUNTAIN**, Nevada: Third International Radioactive Waste Management Conference, Proceedings, April 1992, Las Vegas, Nev., v. 1, p. 732-737.
- Zimmerman, R.W., and Bodvarsson, G.S., 1992, Semi-analytical treatment of fracture/matrix flow in a dual-porosity simulator for unsaturated fractured rock masses: Third International Radioactive Waste Management Conference, Proceedings, April 1992, Las Vegas, Nev., v. 1, p. 272-278.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material 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. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficken, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 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, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 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, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 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, Chapter A9. 1989. 27 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 41 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathburn, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels of streamflow gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 27 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programmed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 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, Chapter B5. 1987. 15 pages.
- 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, Chapter B6. 1987. 28 pages.
- 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, Chapter B7. 1992. 90 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. J. Fishman and L. C. Friedman: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 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, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greenson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 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, Chapter A5. 1977. 95 pages.
- 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, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 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, Chapter A2. 1991. 68 pages.
- 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, Chapter C1. 1976. 116 pages.
- 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, Chapter C2. 1978. 90 pages.
- 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, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

SURFACE-WATER RECORDS

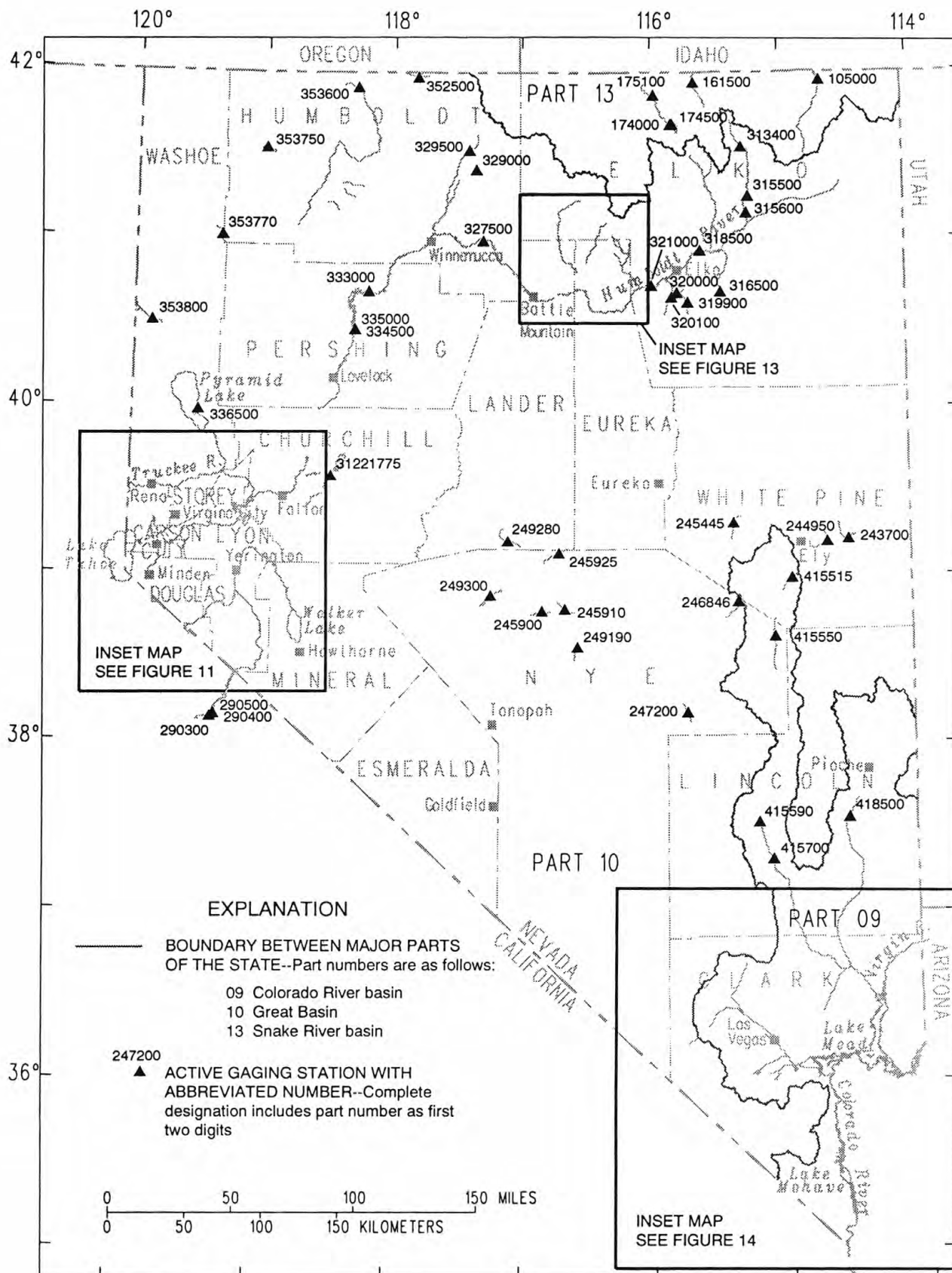
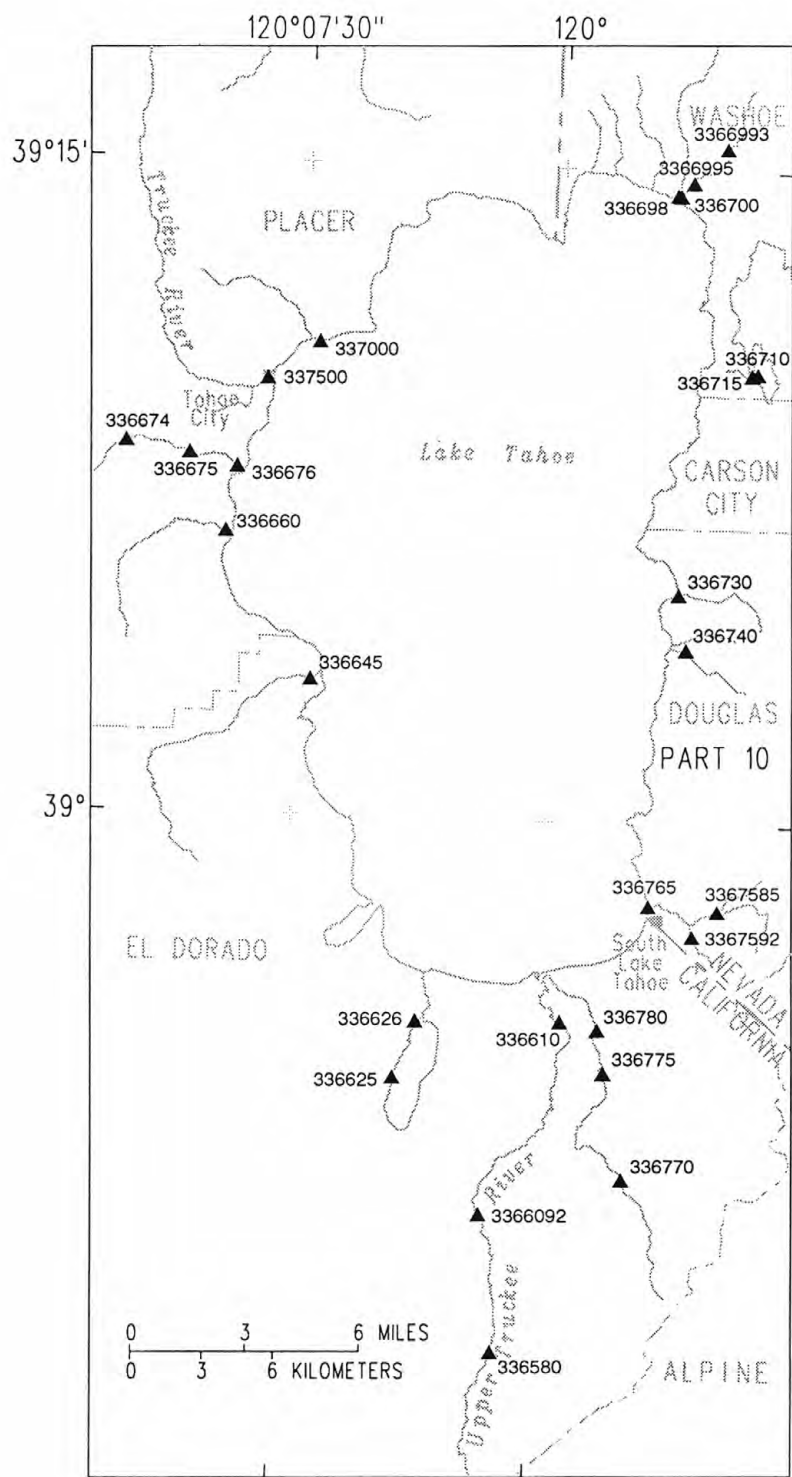


FIGURE 10.--Gaging stations listed in this report.



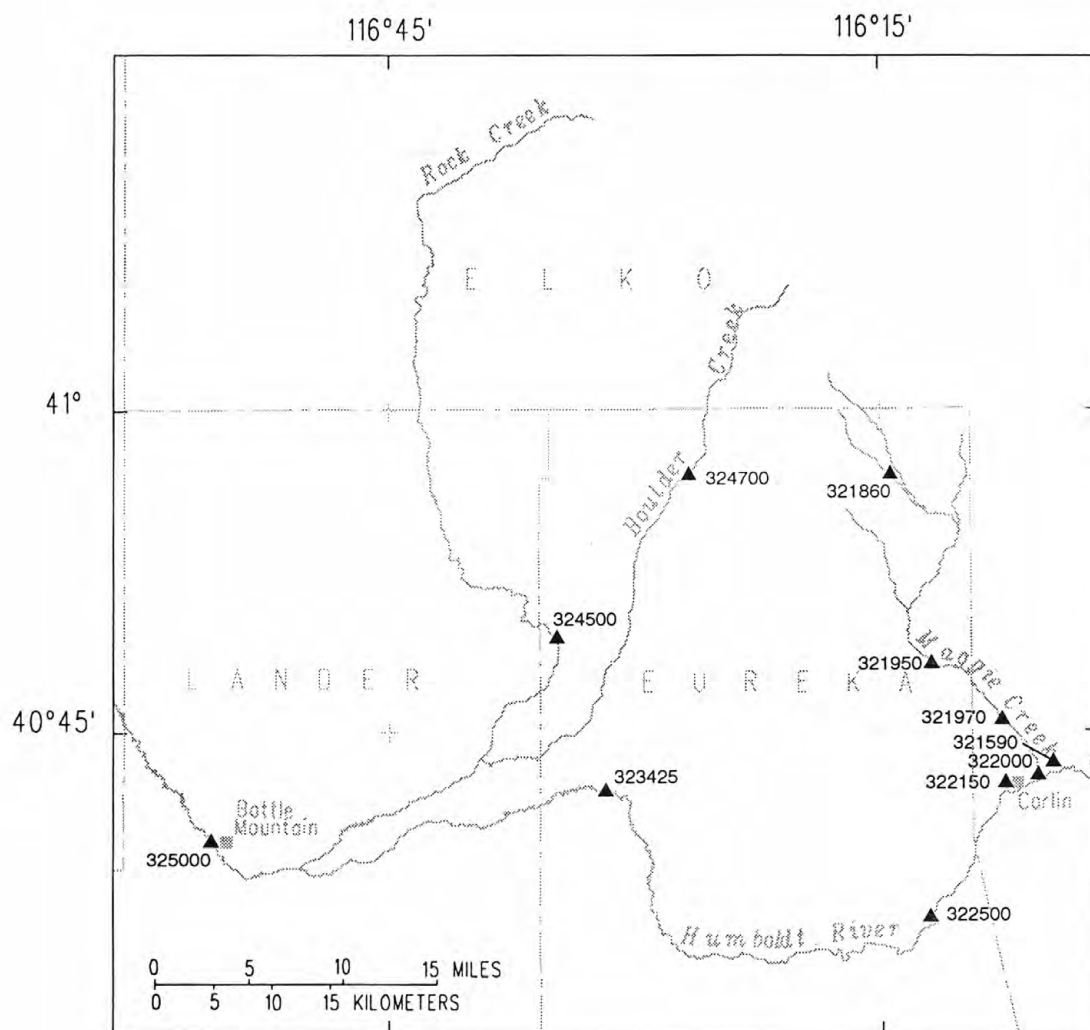
EXPLANATION

336625
▲

ACTIVE GAGING STATION WITH ABBREVIATED NUMBER--
Complete designation includes Part number as first two digits.
Part number is as follows:

10 Great Basin

FIGURE 12.--Gaging stations, Lake Tahoe basin.



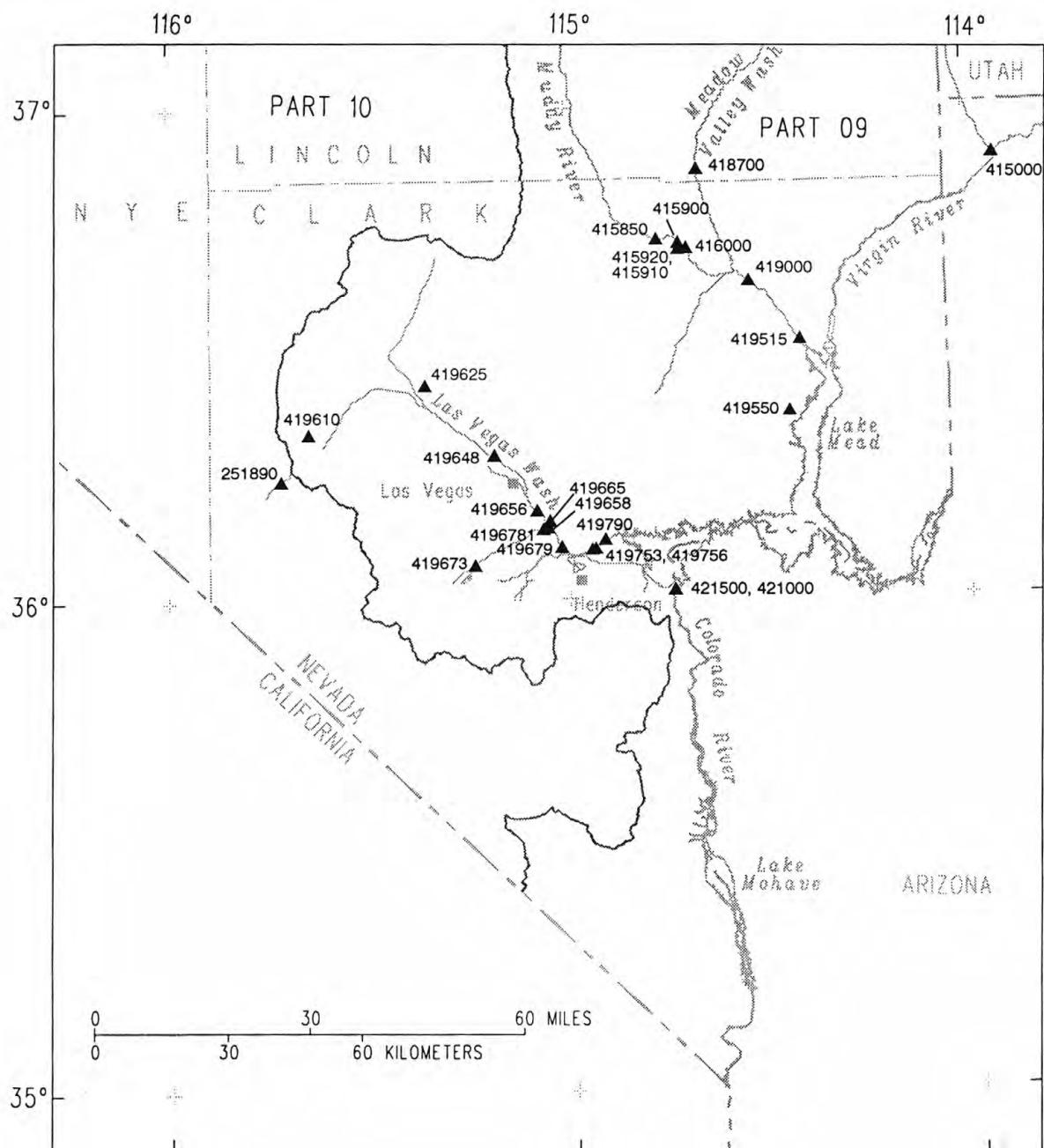
EXPLANATION

322500
▲

ACTIVE GAGING STATION WITH ABBREVIATED NUMBER--
Complete designation includes Part number as first two digits.
Part number is as follows:

10 Great Basin

FIGURE 13.--Gaging stations in Carlin area, northern Nevada.



EXPLANATION

- BOUNDARY BETWEEN MAJOR PARTS OF THE STATE--Part numbers are as follows:
 09 Colorado River basin
 10 Great Basin
- ▲ 421500
 ACTIVE GAGING STATION WITH ABBREVIATED NUMBER--Complete designation includes Part number as first two digits

FIGURE 14.--Gaging stations, southeastern Nevada.

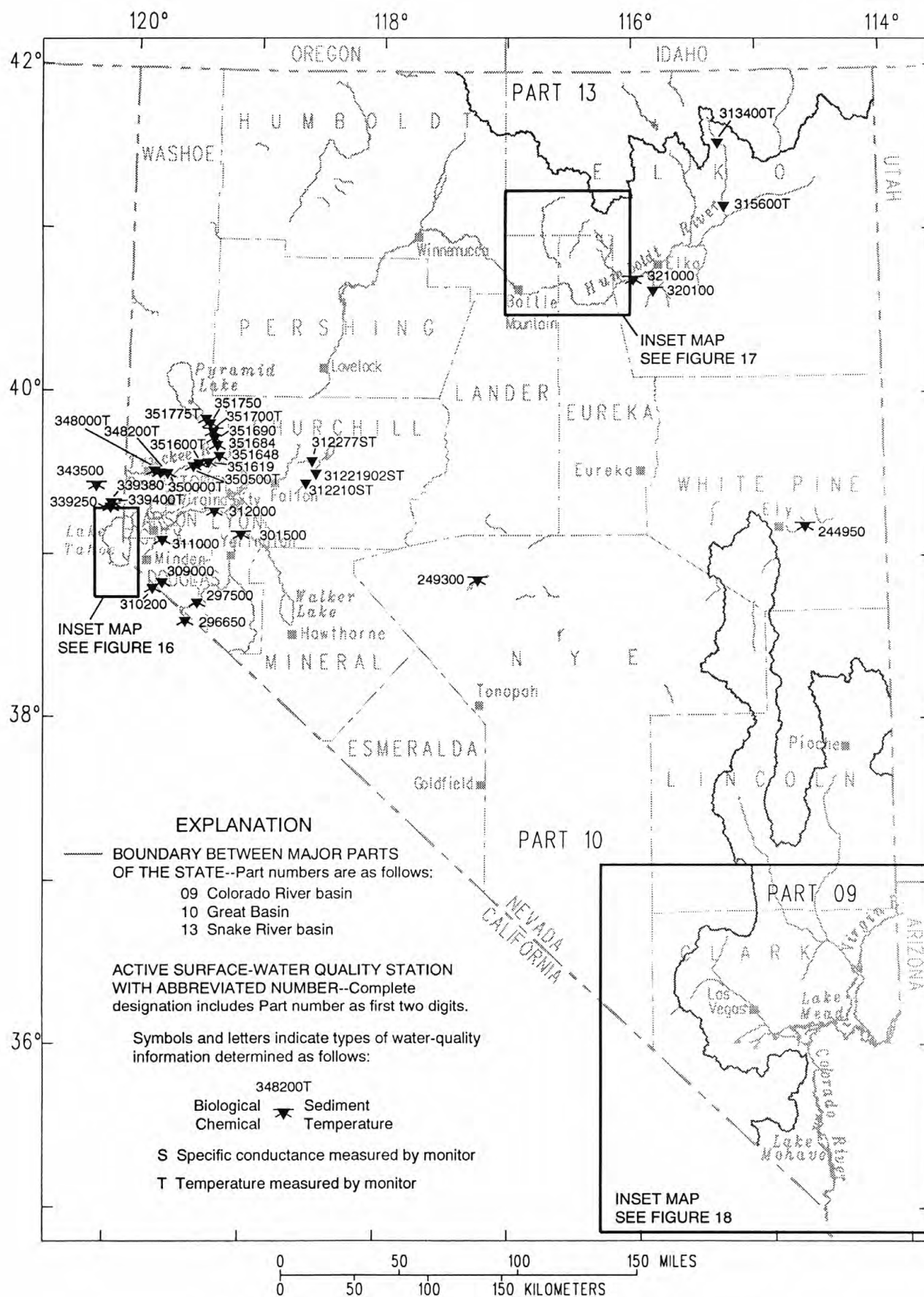


FIGURE 15.--Surface-water quality stations listed in this report.

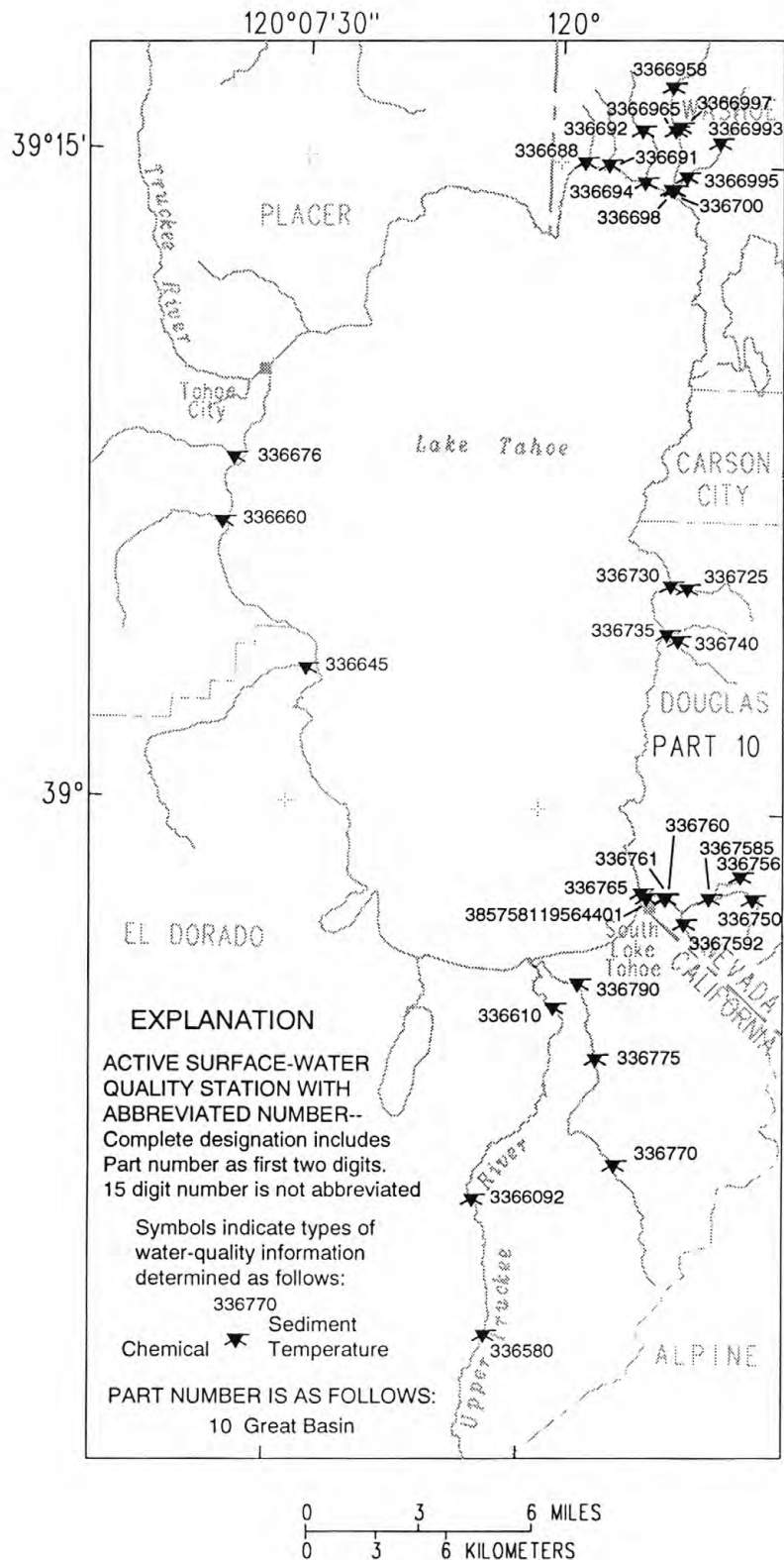
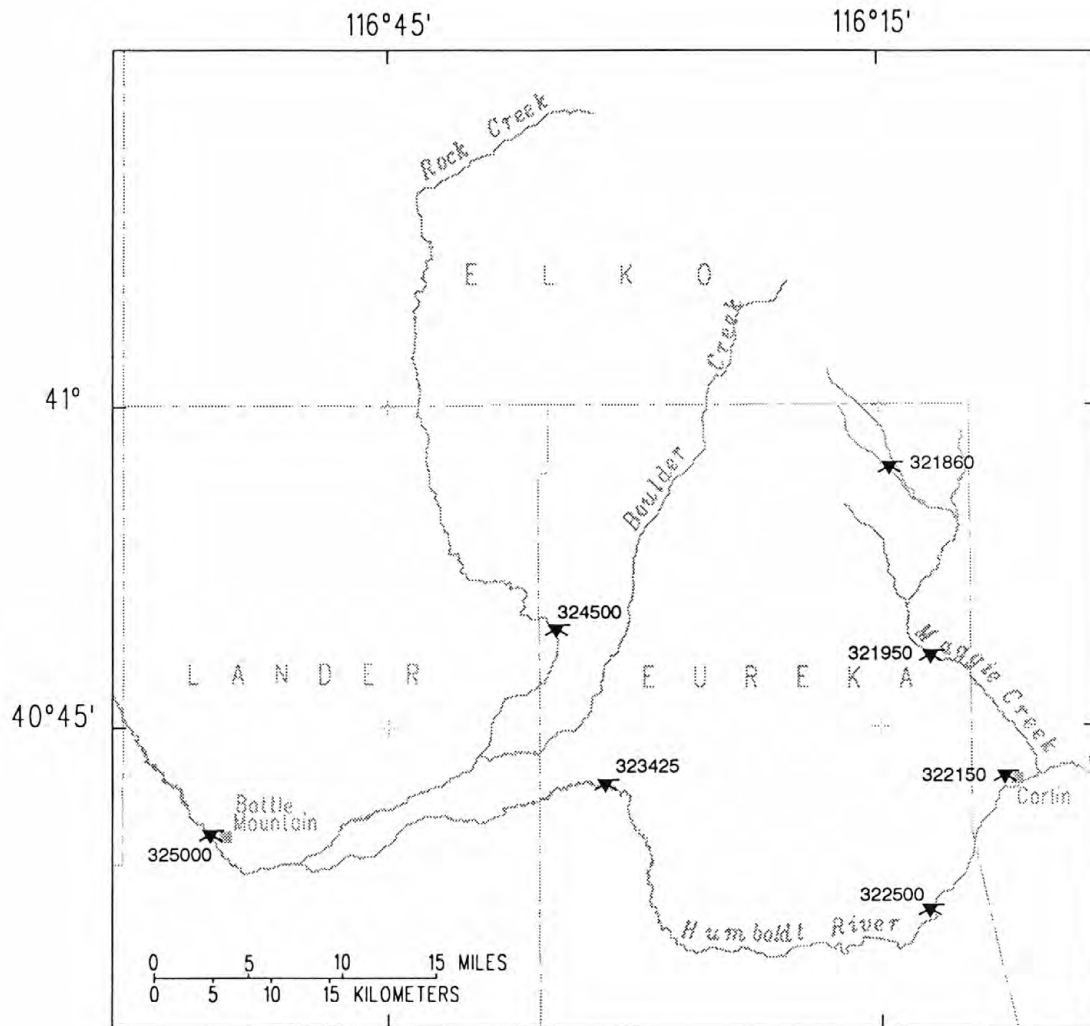


FIGURE 16.--Surface-water quality stations, Lake Tahoe basin.



EXPLANATION

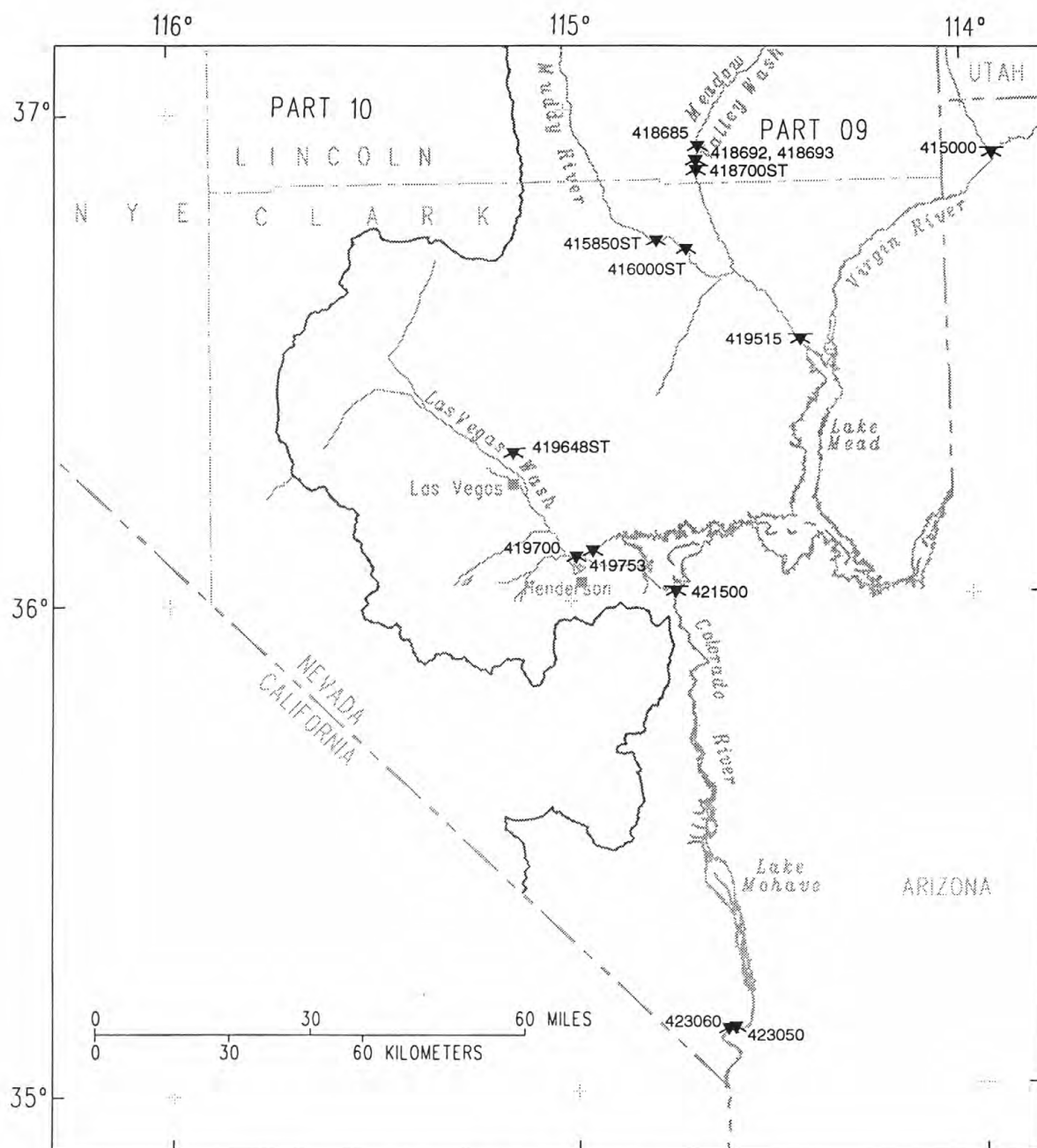
ACTIVE SURFACE-WATER QUALITY STATION WITH ABBREVIATED NUMBER--
Complete designation includes Part number as first two digits. Part number is as follows:

10 Great Basin

Symbols indicate types of water-quality information determined as follows:

322500
Chemical ★ Sediment
 Temperature

FIGURE 17.--Surface-water quality stations in Carlin area, northeastern Nevada.



EXPLANATION

— BOUNDARY BETWEEN MAJOR PARTS OF THE STATE--Part numbers are as follows:

09 Colorado River basin

10 Great Basin

ACTIVE SURFACE-WATER QUALITY STATION WITH ABBREVIATED NUMBER--

Complete designation includes Part number as first two digits

Symbols and letters indicate types of water-quality information determined as follows:

419648ST	
Biological	★ Sediment
Chemical	★ Temperature

S Specific conductance measured by monitor

T Temperature measured by monitor

FIGURE 18.--Surface-water quality stations, southeastern Nevada.

Winter at Lake Tahoe near Incline Village, Nev., 1971



Photograph by Patrick A. Glancy



*Annual Data Report, **1992***

DRAINAGE AREA.--5,090 mi², 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 sea level. 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 good except for July and August, which are fair, and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 4	0745	3,350	8.00	Aug. 23	2015	*3,730	*8.28

Minimum daily, 61 ft³/s, June 23, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1992, BY WATER YEAR (WY)

MEAN	144	189	225	229	309	344	405	412	134	107	184	147
MAX	602	552	1247	775	2330	1709	1385	2122	1119	381	976	737
(WY)	1947	1947	1967	1969	1980	1978	1969	1941	1983	1932	1932	1939
MIN	53.4	101	111	108	110	85.4	61.6	49.9	46.8	51.6	50.0	53.3
(WY)	1965	1991	1964	1964	1991	1977	1934	1990	1964	1965	1966	1964

VIRGIN RIVER BASIN

49

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1930 - 1992	
ANNUAL TOTAL	38137		69795		235	
ANNUAL MEAN	104		191		697	1983
HIGHEST ANNUAL MEAN					100	1991
LOWEST ANNUAL MEAN					17000	Mar 3 1938
HIGHEST DAILY MEAN	518	Mar 2	1790	Mar 4	40	Aug 6 1966
LOWEST DAILY MEAN	54	Jul 24	61	Jun 23	41	Aug 3 1966
ANNUAL SEVEN-DAY MINIMUM	56	Jul 23	63	Jun 21	61000	Jan 1 1989
INSTANTANEOUS PEAK FLOW			3730	Aug 23	22.37	Jan 1 1989
INSTANTANEOUS PEAK STAGE			8.28	Aug 23	38	May 1 1975
INSTANTANEOUS LOW FLOW					170600	
ANNUAL RUNOFF (AC-FT)	75640		138400		415	
10 PERCENT EXCEEDS	144		369		145	
50 PERCENT EXCEEDS	96		135		60	
90 PERCENT EXCEEDS	60		75			

VIRGIN RIVER BASIN

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

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.

REMARKS.--Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (right) bank is generally somewhat 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 ft³/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, Nev.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,650 microsiemens, August 21, 1966; minimum, 615 microsiemens, 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 30...	0830	135	2840	7.8	17.0	13.5	150	8.6	88	--	--
DEC 18...	1000	141	3080	7.9	14.5	11.5	96	10.6	99	360	950
FEB 21...	0930	218	2420	7.9	15.5	14.0	100	--	--	K87	250
MAR 09...	1215	868	--	--	--	--	--	--	--	--	--
APR 22...	1215	272	2060	7.9	23.0	19.0	99	8.6	100	--	350
JUN 29...	1100	62	3180	7.8	32.0	25.0	1.7	8.2	108	40	K40
AUG 26...	0900	155	2680	7.7	28.0	23.5	7500	7.6	92	1200	K1800

DATE	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CaCO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 30...	1000	280	75	250	3	21	344	282	770	280	0.70
DEC 18...	1100	290	90	300	4	24	332	272	950	400	0.80
FEB 21...	800	210	65	230	4	21	306	251	530	250	0.40
MAR 09...	--	--	--	--	--	--	--	--	--	--	--
APR 22...	640	170	52	170	3	15	290	232	490	240	0.70
JUN 29...	1300	350	100	270	3	28	345	283	1100	370	1.0
AUG 26...	1100	330	65	200	3	20	257	211	960	280	0.70

VIRGIN RIVER BASIN

51

09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT 30...	16	1980	1870	2.69	0.010	0.010	0.870	0.760	0.100	0.090
DEC 18...	20	2130	2240	4.47	0.020	0.010	0.730	0.750	0.050	0.040
FEB 21...	18	1700	1480	2.31	0.010	0.020	0.730	0.740	0.040	0.050
MAR 09...	--	--	--	--	--	--	--	--	--	--
APR 22...	16	1340	1300	1.82	0.010	0.010	0.480	0.510	0.020	0.020
JUN 29...	18	2380	2410	3.24	<0.010	<0.010	0.250	0.250	0.050	0.050
AUG 26...	14	2060	2000	2.80	0.020	<0.010	0.540	0.520	0.060	0.060

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
OCT 30...	0.40	0.210	0.090	0.100	0.100	40	200	<1	<10	340
DEC 18...	0.40	0.280	0.100	0.110	0.100	--	--	--	--	--
FEB 21...	0.50	0.260	0.050	0.060	0.050	<10	<100	<1	<10	270
MAR 09...	--	--	--	--	--	--	--	--	--	--
APR 22...	<0.20	0.080	0.080	0.070	0.070	--	--	--	--	--
JUN 29...	<0.20	0.050	<0.010	0.020	<0.010	20	<100	<1	20	450
AUG 26...	3.6	4.50	0.030	0.030	0.010	20	200	<1	10	250

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 30...	40	3	1	1	<1.0	3000	9	402	147	89
DEC 18...	--	--	--	--	--	--	--	265	101	96
FEB 21...	30	2	4	1	<1.0	2900	7	426	251	84
MAR 09...	--	--	--	--	--	--	--	4460	10452	80
APR 22...	--	--	--	--	--	--	--	516	379	85
JUN 29...	30	3	2	1	<1.0	4300	8	44	7.3	22
AUG 26...	10	4	<1	2	<1.0	3300	7	6730	2820	98

K: NON-IDEAL COLONY COUNT

VIRGIN RIVER BASIN

09415515 WATER CANYON CREEK NEAR PRESTON, NV

LOCATION.--Lat 38°59'16", long 114°57'27", in SW 1/4 NW 1/4 sec.13, T.13 N., R.62 E., White Pine County, Hydrologic Unit 15010011, on right bank, 7 mi northeast of Preston, and about 17 mi south of Ely.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--June 1983 to September 1987, March 1990 to current year.

REVISED RECORDS.--NV-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,400 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.5 ft³/s, June 15, gage height, 4.79 ft; minimum daily, 0.09 ft³/s, December 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.32	e.13	e.55	.72	.34	.34	.52	.62	e1.4	.42	.37
2	.68	.49	e.12	e.50	.66	.32	.30	.74	.71	e.60	.41	.36
3	.69	.51	e.10	e.48	.62	.39	.35	.72	.73	.34	.34	.31
4	.68	.51	e.09	e.41	.70	.34	.31	.59	.73	.34	.35	.31
5	.65	.51	e.09	.56	.71	.32	.32	.40	.64	.37	.40	.34
6	.62	.51	e.11	e.56	.76	.33	.38	.41	.72	.37	.44	.32
7	.61	.51	e.13	e.53	.69	.34	.36	.40	.69	.34	.44	.39
8	.66	.51	e.16	e.54	.70	.34	.38	.41	.65	.40	.40	.51
9	.68	.51	e.19	e.53	.68	.34	.36	.33	.70	.45	.38	.48
10	.73	.51	e.30	e.49	.70	.32	.33	.35	.70	.43	.41	.33
11	.74	.51	e.38	e.51	.72	.31	.35	.28	.65	.46	.41	.32
12	.69	.51	.44	e.47	.76	.31	.39	.20	1.0	.54	.40	.34
13	.68	.51	.47	e.42	.79	.31	.39	.31	1.7	.55	.41	.44
14	.68	.51	.43	e.48	.76	.31	.37	.37	2.0	.55	.38	.45
15	.68	.53	.60	e.55	.71	.31	.34	.40	2.1	.46	.38	.52
16	.66	.56	.57	e.53	e.46	.32	.33	.53	1.3	.42	.38	.47
17	.64	.56	.65	e.51	e.50	.35	.44	.51	.53	.39	.45	.42
18	.62	.64	.56	e.55	e.44	.33	.31	.51	.48	.34	.47	.44
19	.66	e.54	.54	e.60	.61	.37	.35	.52	.40	.38	.47	.51
20	.71	.56	e.45	e.63	.66	.38	.51	.49	.36	.39	.41	.61
21	.69	.81	e.38	e.60	.65	.38	.56	.50	.44	.41	.45	.67
22	.68	e.52	e.48	e.58	.71	.48	.46	.45	.47	.37	.45	.73
23	.65	e.53	e.46	e.58	.62	.53	.47	.49	.53	.43	.47	.80
24	.51	e.55	e.45	e.61	.60	.54	.54	.56	.70	.45	.47	.72
25	.51	.59	e.49	e.64	.63	.55	.43	.71	.91	.43	.50	.58
26	.51	.60	e.52	.66	.46	.41	.49	.80	1.2	.47	.56	.47
27	.51	.60	e.49	.65	.34	.47	.36	.67	.85	.48	.59	.42
28	.45	.45	e.47	.65	.34	.47	.50	.69	e.70	.47	.63	.47
29	.38	.22	e.53	.65	.34	.44	.43	.75	e.90	.47	.67	.41
30	.38	e.15	.56	.70	---	.43	.41	.71	e1.2	.44	.70	.41
31	e.32	---	.56	.71	---	.42	---	.72	---	.41	.61	---
TOTAL	18.97	15.34	11.90	17.43	18.04	11.80	11.86	16.04	25.31	14.35	14.25	13.92
MEAN	.61	.51	.38	.56	.62	.38	.40	.52	.84	.46	.46	.46
MAX	.74	.81	.65	.71	.79	.55	.56	.80	2.1	1.4	.70	.80
MIN	.32	.15	.09	.41	.34	.31	.30	.20	.36	.34	.34	.31
AC-FT	38	30	24	35	36	23	24	32	50	28	28	28

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1992, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
MEAN	2.81	2.17	1.86	1.65	1.62	1.93	1.95	1.75	2.50	3.15	2.96
MAX	5.97	4.08	3.37	2.67	2.68	3.72	3.55	4.00	7.22	10.8	9.14
(WY)	1984	1984	1984	1984	1984	1986	1986	1986	1983	1983	1983
MIN	.47	.51	.13	.21	.33	.38	.37	.24	.41	.38	.46
(WY)	1991	1992	1991	1991	1991	1992	1990	1991	1991	1991	1990

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1983 - 1992
ANNUAL TOTAL	168.27	189.21	
ANNUAL MEAN	.46	.52	2.11
HIGHEST ANNUAL MEAN			3.98
LOWEST ANNUAL MEAN			.43
HIGHEST DAILY MEAN	1.6 Apr 13	2.1 Jun 15	16 Jul 30 1983
LOWEST DAILY MEAN	.09 Dec 4	.09 Dec 4	.01 Dec 23 1990
ANNUAL SEVEN-DAY MINIMUM	.11 Dec 1	.11 Dec 1	.02 Dec 22 1990
INSTANTANEOUS PEAK FLOW		2.5 Jun 15	90 Aug 16 1984
INSTANTANEOUS PEAK STAGE		4.79 Jun 15	5.92 Aug 16 1984
ANNUAL RUNOFF (AC-FT)	334	375	1530
10 PERCENT EXCEEDS	.74	.71	4.7
50 PERCENT EXCEEDS	.43	.49	2.1
90 PERCENT EXCEEDS	.21	.33	.34

VIRGIN RIVER BASIN

53

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 mi².

PERIOD OF RECORD.--October 1990 to current year.

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

REMARKS.--No estimated daily discharges. Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft³/s, March 4, 5, gage height, 2.21 ft; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	6.0	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	4.1	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	3.6	2.4	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	23	1.2	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	22	.35	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	15	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	11	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	9.0	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	6.4	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	4.3	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	3.1	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.02	2.4	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	1.0	1.9	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	4.8	1.3	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	4.4	.69	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	3.9	.34	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	3.6	.11	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	3.7	.32	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	4.8	.75	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	4.3	.93	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	2.6	1.6	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	1.6	4.2	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	1.9	16	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	1.0	16	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.25	9.4	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	6.0	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	4.6	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	5.4	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	4.7	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	5.4	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	7.0	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	37.87	186.44	14.05	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	1.31	6.01	.47	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	4.8	23	6.0	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	75	370	28	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1990	.000	.000	1991	.000	1991
1991	.000	.000	1991	.000	1991
1992	.000	.000	1992	.000	1992
1993	.000	.000	1993	.000	1993
1994	.000	.000	1994	.000	1994
1995	.000	.000	1995	.000	1995
1996	.000	.000	1996	.000	1996
1997	.000	.000	1997	.000	1997
1998	.000	.000	1998	.000	1998
1999	.000	.000	1999	.000	1999
2000	.000	.000	2000	.000	2000
2001	.000	.000	2001	.000	2001
2002	.000	.000	2002	.000	2002
2003	.000	.000	2003	.000	2003
2004	.000	.000	2004	.000	2004
2005	.000	.000	2005	.000	2005
2006	.000	.000	2006	.000	2006
2007	.000	.000	2007	.000	2007
2008	.000	.000	2008	.000	2008
2009	.000	.000	2009	.000	2009
2010	.000	.000	2010	.000	2010
2011	.000	.000	2011	.000	2011
2012	.000	.000	2012	.000	2012
2013	.000	.000	2013	.000	2013
2014	.000	.000	2014	.000	2014
2015	.000	.000	2015	.000	2015
2016	.000	.000	2016	.000	2016
2017	.000	.000	2017	.000	2017
2018	.000	.000	2018	.000	2018
2019	.000	.000	2019	.000	2019
2020	.000	.000	2020	.000	2020
2021	.000	.000	2021	.000	2021
2022	.000	.000	2022	.000	2022
2023	.000	.000	2023	.000	2023
2024	.000	.000	2024	.000	2024
2025	.000	.000	2025	.000	2025
2026	.000	.000	2026	.000	2026
2027	.000	.000	2027	.000	2027
2028	.000	.000	2028	.000	2028
2029	.000	.000	2029	.000	2029
2030	.000	.000	2030	.000	2030

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	11.83	238.36	
ANNUAL MEAN	.032	.65	
HIGHEST ANNUAL MEAN			.34
LOWEST ANNUAL MEAN			.65
HIGHEST DAILY MEAN	3.0	23	.032
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		28	28
INSTANTANEOUS PEAK STAGE		2.21	2.21
ANNUAL RUNOFF (AC-FT)	23	473	248
10 PERCENT EXCEEDS	.00	1.2	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

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 375, 200 ft southeast of junction of State Highway 318, and 4.5 mi south of Hiko.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s, August 1, gage height 1.31 ft; minimum daily, 1.6 ft³/s, October 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	8.2	8.4	8.4	8.8	3.7	8.6	8.1	7.8	8.5	8.5	8.5
2	1.6	8.1	8.4	8.4	8.8	7.1	8.6	8.0	7.9	8.4	8.4	8.5
3	1.6	8.1	8.3	8.4	8.7	8.9	8.6	8.0	7.9	8.5	8.4	8.5
4	1.6	8.3	8.4	8.4	8.6	8.8	8.6	7.9	7.9	8.5	8.3	8.5
5	1.6	8.4	8.4	8.2	8.6	8.8	8.6	8.1	7.9	8.5	8.3	8.5
6	3.7	8.4	8.4	8.0	8.6	8.8	8.5	8.1	7.9	8.5	8.3	8.5
7	8.0	8.4	8.4	8.3	8.6	8.8	8.4	8.0	7.9	8.5	8.3	8.7
8	7.9	5.9	8.4	8.4	8.7	8.8	8.4	8.1	7.8	8.5	8.4	8.7
9	7.9	1.7	8.4	8.4	8.8	8.8	8.4	8.1	4.2	8.6	8.4	8.8
10	3.5	1.7	8.5	8.4	8.8	8.8	8.3	8.0	1.8	8.6	8.4	8.8
11	3.5	1.7	8.5	8.5	8.7	8.8	8.3	8.0	2.6	8.5	8.4	6.0
12	7.9	6.4	8.5	8.4	8.7	8.8	8.3	7.9	2.5	8.4	8.4	1.9
13	7.9	8.5	8.5	8.4	8.8	8.7	8.4	7.9	1.8	8.4	8.4	1.8
14	7.9	8.5	8.5	8.5	8.7	8.6	8.4	7.9	1.8	8.4	8.4	1.8
15	7.9	8.4	8.5	8.4	8.7	8.7	6.9	7.8	1.8	5.0	8.4	1.8
16	8.0	8.4	8.5	8.5	8.7	4.1	8.5	8.0	1.8	4.4	8.5	4.1
17	6.1	8.4	8.5	8.5	8.7	2.2	8.3	7.9	1.8	2.1	8.5	8.8
18	2.3	8.4	8.5	8.5	8.7	2.3	8.2	7.9	1.8	2.2	8.4	8.8
19	5.2	8.3	8.5	8.6	8.8	4.7	8.1	7.9	1.9	2.3	8.4	8.7
20	8.0	8.4	8.4	8.6	8.9	4.1	8.1	7.9	1.8	2.2	8.4	8.7
21	4.3	8.4	8.5	8.6	8.8	7.3	8.2	7.9	1.8	2.2	8.4	8.7
22	2.3	8.3	8.4	8.6	8.9	8.7	8.1	7.9	1.8	2.2	8.4	8.7
23	4.5	8.4	8.4	8.6	8.8	8.7	4.0	7.8	1.8	2.2	8.4	8.7
24	8.2	8.5	8.5	8.6	8.9	8.6	1.8	7.8	6.1	2.3	8.4	8.7
25	8.2	8.5	8.5	8.6	9.0	8.6	2.4	7.7	7.9	2.3	8.4	8.7
26	8.2	8.5	8.5	8.6	9.0	8.6	1.8	7.9	7.9	2.6	8.4	8.7
27	6.5	8.5	8.5	8.6	6.3	8.6	1.8	7.9	7.9	2.8	8.4	8.7
28	7.3	8.5	8.5	8.6	3.8	8.5	1.9	7.9	8.1	3.2	8.4	8.7
29	8.2	8.5	8.4	8.7	3.7	8.5	2.1	7.9	8.4	4.3	8.4	8.7
30	8.2	8.4	8.4	8.8	---	8.6	5.0	7.9	8.4	7.0	8.5	8.7
31	8.1	---	8.4	8.8	---	8.6	---	7.8	---	8.5	8.5	---
TOTAL	177.7	227.1	261.9	263.3	241.6	235.6	203.6	245.9	148.7	176.6	260.5	225.4
MEAN	5.73	7.57	8.45	8.49	8.33	7.60	6.79	7.93	4.96	5.70	8.40	7.51
MAX	8.2	8.5	8.5	8.8	9.0	8.9	8.6	8.1	8.4	8.6	8.5	8.8
MIN	1.6	1.7	8.3	8.0	3.7	2.2	1.8	7.7	1.8	2.1	8.3	1.8
AC-FT	352	450	519	522	479	467	404	488	295	350	517	447

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	8.82	9.84	9.81	10.2	10.2	8.63	9.30	9.35
MAX	12.0	12.0	11.0	11.1	12.0	9.39	11.7	10.6
(WY)	1991	1991	1986	1988	1988	1986	1988	1987
MIN	5.73	7.21	7.85	8.49	8.33	7.60	6.79	7.93
(WY)	1992	1987	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1985 - 1992
ANNUAL TOTAL	2836.6	2667.9	
ANNUAL MEAN	7.77	7.29	9.09
HIGHEST ANNUAL MEAN			9.88
LOWEST ANNUAL MEAN			7.29
HIGHEST DAILY MEAN	10	9.0	13
LOWEST DAILY MEAN	1.0	1.6	1.0
ANNUAL SEVEN-DAY MINIMUM	1.5	1.8	1.5
INSTANTANEOUS PEAK FLOW		14	19
INSTANTANEOUS PEAK STAGE		1.31	1.31
ANNUAL RUNOFF (AC-FT)	5630	5290	6590
10 PERCENT EXCEEDS	9.6	8.7	12
50 PERCENT EXCEEDS	8.9	8.4	10
90 PERCENT EXCEEDS	1.8	2.3	2.9

VIRGIN RIVER BASIN

55

09415700 WHITE RIVER ABOVE UPPER PAHRANAGAT LAKE NEAR ALAMO, NV

LOCATION.--Lat 37°18'42", long 115°07'54", in SE 1/4 NW 1/4 sec.27, T.7 S., R.61 E., Lincoln County, Hydrologic Unit 15010011, on left bank, 1200 ft upstream of Upper Pahrnagat Lake, and 4.1 mi south of Alamo.

DRAINAGE AREA.--2,630 mi².

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Water-stage recorder. Concrete weir since October 1, 1990. Elevation of gage is 3,360 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 55 ft³/s, December 19, gage height 4.14 ft; maximum gage height, 4.20 ft, January 6; no flow at times in June, August, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	6.1	8.1	25	17	8.8	10	5.2	10	.48	.59	.01
2	.38	5.2	8.4	26	18	8.8	7.7	6.0	11	.64	.35	.00
3	.38	3.3	7.2	25	18	19	6.0	6.2	8.3	.32	.27	.00
4	.73	3.8	12	25	18	23	5.6	7.0	5.8	.54	.46	.00
5	.40	5.0	14	28	18	36	5.5	4.1	7.5	.60	.43	.18
6	.15	2.6	15	38	18	46	5.3	3.6	2.5	.76	.50	.00
7	.09	2.3	12	34	18	46	4.1	3.8	2.4	.75	.38	.46
8	.06	5.2	14	34	19	42	4.5	4.1	1.8	1.2	.43	.65
9	.09	6.2	15	32	21	37	4.7	3.1	3.6	1.6	.36	.57
10	.13	6.3	24	29	23	26	5.6	5.4	1.4	1.9	.33	.55
11	.36	5.3	35	26	27	18	8.2	5.0	2.7	1.4	.36	.57
12	.87	6.1	27	23	33	23	8.8	4.1	1.7	1.0	.30	.50
13	.20	5.1	29	20	41	29	8.0	2.4	1.5	1.1	1.2	.52
14	.27	5.8	24	19	39	31	5.6	2.8	1.7	1.9	.59	1.1
15	.70	5.2	25	19	40	19	5.6	e3.1	1.9	2.0	.24	1.0
16	.79	4.3	21	19	39	12	5.3	e3.5	1.6	1.8	.00	1.1
17	1.2	3.4	17	20	33	8.3	4.6	e3.7	1.5	1.7	.00	.79
18	1.2	8.5	16	20	31	8.3	3.4	3.9	2.2	1.4	.30	.61
19	1.3	7.6	37	18	31	20	3.6	5.8	1.2	1.3	.28	.55
20	1.8	9.5	32	16	30	32	2.2	5.9	1.7	1.3	.00	.48
21	1.9	9.8	29	16	27	32	2.7	5.7	1.2	.98	.57	.50
22	2.5	8.8	28	16	25	32	2.7	8.1	1.1	1.0	.17	.52
23	2.8	6.5	28	17	18	33	3.8	4.8	.38	1.4	.32	.63
24	2.0	7.4	28	17	16	31	3.2	2.5	.00	1.1	.33	1.0
25	2.7	6.6	28	18	16	30	2.9	5.0	.30	1.0	.42	1.0
26	3.3	7.7	26	20	12	30	3.1	7.6	1.1	1.1	.56	1.1
27	4.1	6.8	24	21	15	29	3.6	11	1.5	1.1	.24	1.1
28	3.3	6.3	22	21	16	28	3.5	7.8	.85	1.2	.00	.83
29	3.6	8.9	21	22	13	23	2.7	11	1.5	.97	.50	.76
30	4.6	9.3	24	21	---	16	2.3	8.8	.81	.71	.00	e.70
31	4.5	---	25	20	---	15	---	7.4	---	.50	.00	---
TOTAL	46.51	184.9	675.7	705	690	792.2	144.8	168.4	80.74	34.75	10.48	17.78
MEAN	1.50	6.16	21.8	22.7	23.8	25.6	4.83	5.43	2.69	1.12	.34	.59
MAX	4.6	9.8	37	38	41	46	10	11	11	2.0	1.2	1.1
MIN	.06	2.3	7.2	16	12	8.3	2.2	2.4	.00	.32	.00	.00
AC-FT	92	367	1340	1400	1370	1570	287	334	160	69	21	35

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1991	1992	1992	1992	1991	1991	1992	1992	1992	1991	1991
MEAN	2.80	6.81	13.9	17.9	18.0	20.5	6.81	5.78	2.95	.72	.26	.54
MAX	4.11	7.45	21.8	22.7	23.8	25.6	8.80	6.13	3.20	1.12	.34	.59
(WY)	1991	1991	1992	1992	1992	1992	1991	1991	1992	1992	1992	1992
MIN	1.50	6.16	6.03	13.0	12.0	15.5	4.83	5.43	2.69	.32	.19	.48
(WY)	1992	1992	1991	1991	1991	1991	1992	1992	1992	1991	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	2707.82	3551.26	
ANNUAL MEAN	7.42	9.70	8.06
HIGHEST ANNUAL MEAN			9.70
LOWEST ANNUAL MEAN			6.41
HIGHEST DAILY MEAN	37	Dec 19	46
LOWEST DAILY MEAN	.00	Jul 5	.00
ANNUAL SEVEN-DAY MINIMUM	.02	Jul 25	.03
INSTANTANEOUS PEAK FLOW			55
INSTANTANEOUS PEAK STAGE			4.20
ANNUAL RUNOFF (AC-FT)	5370	7040	5840
10 PERCENT EXCEEDS	18	28	21
50 PERCENT EXCEEDS	6.1	4.6	5.4
90 PERCENT EXCEEDS	.11	.36	.24

VIRGIN RIVER BASIN

09415850 PAHRANAGAT WASH NEAR MOAPA, NV

LOCATION.--Lat 36°43'46", long 114°46'09", in NE 1/4 SE 1/4 sec.12, T.14 S., R.64 E., Clark County, Hydrologic Unit 15010012, on left bank, 2.0 mi downstream of Arrow Canyon Dam, and 9.0 mi northwest of Moapa.

DRAINAGE AREA.--252 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1988 to current year.

REVISED RECORDS.--WDR NV-90: 1988, 1989 (M). WDR NV-91: 1990 (M).

GAGE.--Water-stage recorder. Elevation of gage is 2,110 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 424 ft³/s, March 30, gage height, 11.94 ft; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	7.2	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	10	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	8.8	.00	.00	.00	.00	1.5	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	3.2	.00	.00	.00	.00
30	.00	.00	.00	.00	---	38	.00	6.6	.00	.00	.01	.00
31	.00	---	.00	.00	---	.71	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	7.20	18.80	38.71	0.00	9.80	0.00	1.50	0.01	0.00
MEAN	.000	.000	.000	.23	.65	1.25	.000	.32	.000	.048	.000	.000
MAX	.00	.00	.00	7.2	10	38	.00	6.6	.00	1.5	.01	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	14	37	77	.00	19	.00	3.0	.02	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.000	.000	.000	.058	.18	.31	.000	.079	.000	.20	1.88	2.74
MAX	.000	.000	.000	.23	.65	1.25	.000	.32	.000	.62	4.89	13.7
(WY)	1989	1989	1989	1992	1992	1992	1989	1992	1989	1990	1990	1991
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1989	1989	1989	1989	1989	1989	1991	1988	1988

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	552.45	76.02		
ANNUAL MEAN	1.51	.21		
HIGHEST ANNUAL MEAN			.55	
LOWEST ANNUAL MEAN			1.51	1991
HIGHEST DAILY MEAN	394	Sep 6	.012	1989
LOWEST DAILY MEAN	.00	Jan 1	.00	Jul 20 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Jul 20 1988
INSTANTANEOUS PEAK FLOW			424	Mar 30
INSTANTANEOUS PEAK STAGE			11.94	Mar 30
ANNUAL RUNOFF (AC-FT)	1100	151	398	15.83
10 PERCENT EXCEEDS	.00	.00	.00	
50 PERCENT EXCEEDS	.00	.00	.00	
90 PERCENT EXCEEDS	.00	.00	.00	

VIRGIN RIVER BASIN

09415850 PAHRANAGAT WASH NEAR MOAPA, NV--Continued

57

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

INSTRUMENTATION.--Specific-conductance and water-temperature recorder since July 1988, two times per hour.

REMARKS.--Records represent water temperature at probe within 0.5°C. Stream is normally dry; values for specific conductance and water temperature generally are recorded after thunderstorms. Values for specific conductance and water temperature for February 14, and May 30 are based on an entire day of record. All other published values are based on data for periods shorter than entire day.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 550 microsiemens, July 16, 1990; minimum recorded, 109 microsiemens, May 29, 1992.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 14, 1992; minimum recorded, 7.0°C, January 6, 1992.

EXTREMES FOR CURRENT YEAR--

SPECIFIC CONDUCTANCE: Maximum recorded, 525 microsiemens, May 30; minimum recorded, 109 microsiemens, May 29.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 14; minimum recorded, 7.0°C, January 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
JAN											
06...	0530	E25	124	--	--	--	--	--	--	--	--
06...	1500	E0.20	240	--	--	--	--	--	--	--	--
MAR											
30...	0945	E25	228	--	--	--	--	--	--	--	--
30...	1000	E290	520	--	--	--	--	--	--	--	--
30...	1210	65	305	18.0	11.0	120	40	5.4	15	0.6	4.7
MAY											
29...	2130	E25	268	--	--	--	--	--	--	--	--
JUL											
14...	0130	E40	380	--	--	--	--	--	--	--	--

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN										
06...	--	--	--	--	100	--	--	--	--	--
06...	--	--	--	--	148	--	--	--	--	--
MAR										
30...	--	--	--	--	142	--	--	15800	E1070	--
30...	--	--	--	--	276	--	--	28600	E22400	--
30...	86	10	0.20	3.6	199	208	0.27	5160	900	100
MAY										
29...	--	--	--	--	188	--	--	2630	E178	98
JUL										
14...	--	--	--	--	222	--	--	3910	E422	100

WATER QUALITY DATA FOR EPHEMERAL PERIODS OF FLOW

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C.)				WATER TEMPERATURE (DEGRESS CELSIUS)		
DATE	MAX	MIN	MEAN	MAX	MIN	MEAN
JAN						
06...	249	131	235	8.5	7.0	8.0
FEB						
13...	249	171	188	11.0	10.0	10.5
14...	183	169	179	11.0	8.5	10.0
15...	185	185	185	10.5	10.5	10.5
MAR						
30...	431	187	294	13.0	9.0	11.5
31...	223	215	219	19.5	12.5	14.5
MAY						
29...	245	109	136	21.5	20.0	21.0
30...	525	257	352	26.0	19.0	22.5
31...	255	255	255	25.5	25.0	25.0
JUL						
14...	305	265	281	29.5	23.5	24.5
AUG						
30...	133	127	130	24.0	22.0	22.5

E: ESTIMATED

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 current year.

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

REMARKS.--Records good. Regulation for recreational purposes occurs 0.1 mi upstream. The gage was submerged by backwater and over bank flow from Muddy River on August 15, 1990, discharge and gage height unknown.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32 ft³/s, July 18, gage height, 1.63 ft; minimum daily, 6.3 ft³/s, August 3, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.6	8.5	8.1	7.8	8.0	7.9	7.0	e7.3	7.3	7.0	6.9
2	7.1	7.5	7.8	8.2	8.3	7.1	7.3	7.4	e7.4	7.4	6.9	7.0
3	7.1	7.5	7.6	8.3	7.2	7.1	7.4	7.5	e7.4	7.4	6.3	7.1
4	7.1	e7.5	7.6	8.3	7.2	7.2	7.5	7.6	e7.4	7.9	6.5	8.8
5	7.5	e7.5	7.6	8.3	7.2	7.2	8.0	7.6	e7.3	7.6	6.5	8.1
6	8.1	e7.5	7.6	8.5	7.2	7.2	7.8	7.5	e7.3	7.5	6.6	7.9
7	7.2	e7.4	7.8	8.5	7.3	7.7	7.0	7.5	e7.4	7.4	6.6	8.1
8	7.3	e7.4	7.8	8.4	7.6	8.2	7.2	7.7	e7.4	7.1	6.9	7.5
9	7.3	e7.3	7.8	8.3	8.2	7.3	7.6	7.8	7.6	6.9	7.3	6.9
10	7.3	e7.2	7.9	8.3	7.4	7.3	7.5	7.8	7.5	6.8	6.3	6.9
11	7.3	e7.1	8.5	8.3	7.3	7.3	7.5	8.0	7.5	7.4	6.8	8.0
12	8.6	e7.2	8.5	8.5	7.4	7.3	7.5	7.5	7.5	7.6	6.6	8.0
13	8.5	e7.2	7.6	9.0	7.5	7.3	7.5	7.5	8.2	6.7	6.6	7.5
14	7.5	e7.3	8.4	e8.2	7.5	7.8	7.4	7.5	8.9	6.9	6.5	7.6
15	7.5	e7.3	8.6	e8.0	7.3	8.1	7.3	7.5	7.4	6.9	7.1	7.5
16	7.6	e7.4	7.8	e7.9	7.2	7.1	7.3	7.7	7.8	6.9	7.7	7.4
17	7.6	e7.5	7.8	e7.8	7.2	7.2	7.3	7.8	7.6	6.7	6.5	7.5
18	7.6	e7.4	7.8	e7.8	7.9	7.2	7.2	7.4	7.5	8.1	6.7	8.8
19	7.8	e7.4	7.8	e7.9	7.4	7.3	7.0	7.4	7.4	7.4	6.5	8.2
20	8.4	7.3	7.8	e8.4	7.2	7.3	7.0	7.3	7.5	6.4	6.9	7.5
21	7.8	7.3	8.0	e7.8	7.2	7.3	7.0	7.4	8.2	6.8	7.3	7.5
22	7.9	7.3	8.0	e7.6	7.2	8.2	7.0	7.4	7.2	6.8	7.7	7.5
23	8.0	7.3	8.0	e7.5	7.2	7.3	7.0	e7.5	7.1	6.7	7.6	7.5
24	7.9	8.9	8.1	7.4	7.2	7.3	7.0	e7.6	7.3	6.8	7.2	7.4
25	7.8	7.2	8.1	7.7	8.3	7.3	7.0	e7.5	7.3	7.3	6.8	8.9
26	7.8	7.5	8.1	8.1	7.1	7.3	7.0	e7.4	7.4	7.7	6.7	8.1
27	7.8	7.5	8.3	7.3	7.2	7.4	7.2	e7.4	7.4	6.6	6.8	7.6
28	8.3	7.6	8.1	7.3	7.2	8.0	7.1	e7.4	8.0	6.7	7.2	7.4
29	8.4	7.7	8.1	7.3	8.1	8.2	7.0	e7.3	7.5	6.7	8.3	7.3
30	7.7	8.3	8.2	8.2	---	7.5	7.0	e7.3	7.3	6.7	7.3	7.0
31	7.6	---	8.1	7.5	---	7.4	---	e7.3	---	6.5	7.4	---
TOTAL	238.4	224.1	247.7	248.7	216.0	231.4	218.5	232.5	226.0	219.6	215.1	229.4
MEAN	7.69	7.47	7.99	8.02	7.45	7.46	7.28	7.50	7.53	7.08	6.94	7.65
MAX	8.6	8.9	8.6	9.0	8.3	8.2	8.0	8.0	8.9	8.1	8.3	8.9
MIN	7.0	7.1	7.6	7.3	7.1	7.1	7.0	7.0	7.1	6.4	6.3	6.9
AC-FT	473	445	491	493	428	459	433	461	448	436	427	455

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1992, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992
MEAN	7.53	7.46	7.44	7.47	7.38	7.35	7.46
MAX	8.15	7.80	7.99	8.02	7.82	7.61	7.72
(WY)	1986	1988	1992	1992	1987	1986	1991
MIN	6.97	7.07	6.70	6.93	6.85	7.02	7.28
(WY)	1989	1989	1991	1991	1991	1991	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1986 - 1992
ANNUAL TOTAL	2670.3	2747.4	
ANNUAL MEAN	7.32	7.51	7.42
HIGHEST ANNUAL MEAN			7.69
LOWEST ANNUAL MEAN			7.18
HIGHEST DAILY MEAN	9.1	9.0	9.1
LOWEST DAILY MEAN	6.3	6.3	6.1
ANNUAL SEVEN-DAY MINIMUM	6.4	6.6	6.2
INSTANTANEOUS PEAK FLOW		32	40
INSTANTANEOUS PEAK STAGE		1.63	1.90
ANNUAL RUNOFF (AC-FT)	5300	5450	5380
10 PERCENT EXCEEDS	8.1	8.2	7.9
50 PERCENT EXCEEDS	7.3	7.4	7.4
90 PERCENT EXCEEDS	6.7	6.9	7.0

VIRGIN RIVER BASIN

59

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 current year.

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

REMARKS.--No estimated daily discharges. Records good except for daily discharges below 0.19 ft³/s, which are fair. Minimum daily discharge 0.17 ft³/s occurred several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.34 ft³/s, August 30, gage height, 0.64 ft; minimum daily, 0.17 ft³/s, several days in December and January.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.20	.19	.17	.20	.21	.22	.25	.19	.22	.22	.30
2	.20	.19	.19	.18	.20	.21	.22	.24	.19	.24	.22	.30
3	.20	.19	.19	.18	.19	.20	.22	.24	.21	.24	.22	.30
4	.20	.20	.19	.18	.19	.19	.22	.24	.21	.25	.22	.30
5	.20	.20	.19	.18	.19	.20	.22	.23	.21	.24	.22	.28
6	.20	.20	.19	.18	.20	.20	.21	.20	.21	.25	.22	.21
7	.20	.20	.19	.17	.19	.20	.21	.21	.21	.23	.22	.20
8	.20	.20	.19	.17	.19	.20	.21	.21	.21	.21	.22	.20
9	.20	.20	.19	.17	.19	.19	.21	.21	.22	.22	.22	.20
10	.20	.20	.19	.17	.19	.20	.22	.21	.21	.22	.22	.20
11	.20	.20	.19	.18	.19	.20	.22	.21	.20	.22	.22	.20
12	.20	.20	.18	.18	.19	.20	.22	.24	.20	.22	.22	.20
13	.20	.20	.18	.17	.20	.21	.22	.26	.20	.21	.22	.20
14	.20	.20	.18	.18	.19	.21	.21	.26	.20	.21	.22	.21
15	.20	.19	.18	.17	.19	.21	.21	.24	.20	.21	.22	.21
16	.20	.18	.18	.18	.20	.22	.21	.21	.20	.22	.22	.21
17	.20	.19	.19	.18	.20	.23	.21	.21	.20	.21	.22	.21
18	.20	.19	.19	.18	.20	.23	.21	.21	.20	.22	.22	.21
19	.20	.19	.19	.18	.20	.23	.21	.21	.20	.22	.22	.21
20	.20	.19	.18	.19	.20	.24	.21	.21	.20	.22	.22	.21
21	.20	.18	.19	.19	.20	.23	.21	.20	.20	.22	.22	.21
22	.21	.19	.19	.19	.20	.23	.23	.20	.20	.22	.22	.21
23	.21	.18	.19	.19	.19	.23	.24	.20	.21	.22	.22	.21
24	.20	.18	.19	.19	.20	.22	.24	.19	.21	.21	.22	.22
25	.20	.19	.19	.19	.20	.23	.24	.20	.21	.22	.21	.22
26	.21	.19	.18	.19	.20	.23	.24	.20	.21	.22	.21	.22
27	.20	.19	.18	.19	.20	.22	.24	.19	.21	.22	.21	.22
28	.19	.20	.18	.19	.20	.22	.25	.19	.21	.22	.21	.22
29	.20	.19	.18	.19	.21	.21	.25	.19	.21	.22	.21	.22
30	.19	.19	.18	.19	---	.21	.25	.19	.21	.22	.27	.22
31	.19	---	.17	.20	---	.21	---	.19	---	.22	.30	---
TOTAL	6.20	5.79	5.76	5.64	5.69	6.62	6.68	6.64	6.15	6.89	6.90	6.73
MEAN	.20	.19	.19	.18	.20	.21	.22	.21	.20	.22	.22	.22
MAX	.21	.20	.19	.20	.21	.24	.25	.26	.22	.25	.30	.30
MIN	.19	.18	.17	.17	.19	.19	.21	.19	.19	.21	.21	.20
AC-FT	12	11	11	11	11	13	13	13	12	14	14	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	MEAN	.20	.19	.19	.19	.20	.20	.21	.21	.21	.22	.21	.21
MAX	.22	.21	.21	.21	.21	.21	.21	.23	.23	.23	.23	.22	.22
(WY)	1991	1991	1991	1987	1990	1990	1990	1990	1990	1988	1990	1992	1992
MIN	.18	.18	.18	.18	.19	.18	.20	.20	.19	.20	.21	.19	.19
(WY)	1990	1990	1990	1992	1991	1991	1991	1991	1991	1989	1988	1989	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1987 - 1992

ANNUAL TOTAL	70.95	75.69	
ANNUAL MEAN	.19	.21	.20
HIGHEST ANNUAL MEAN			.21 1987
LOWEST ANNUAL MEAN			.19 1989
HIGHEST DAILY MEAN	.24 Jul 5	.30 Aug 31	.30 Aug 31 1992
LOWEST DAILY MEAN	.17 Mar 2	.17 Dec 31	.17 Oct 22 1989
ANNUAL SEVEN-DAY MINIMUM	.17 Mar 16	.17 Jan 7	.17 Mar 16 1991
INSTANTANEOUS PEAK FLOW		.34 Aug 30	.34 Aug 30 1992
INSTANTANEOUS PEAK STAGE		.64 Aug 30	.64 Aug 30 1992
ANNUAL RUNOFF (AC-FT)	141	150	148
10 PERCENT EXCEEDS	.21	.23	.22
50 PERCENT EXCEEDS	.19	.20	.21
90 PERCENT EXCEEDS	.18	.19	.18

VIRGIN RIVER BASIN

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 current year.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,770 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Diversion for irrigation and fish hatchery above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.8 ft³/s, January 5, 6, gage height, 1.12 ft; minimum daily, 2.9 ft³/s, May 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.7	3.8	4.0	e3.4	3.3	3.1	3.2	3.2	e3.2	3.1	3.5
2	3.5	3.7	3.8	4.0	e3.5	3.3	3.1	3.2	3.2	e3.2	3.1	3.2
3	3.5	3.4	3.8	4.0	e3.5	3.4	3.1	3.2	3.2	e3.2	3.1	3.2
4	3.5	3.6	3.8	3.9	3.3	3.3	3.1	3.2	3.2	e3.2	3.1	3.2
5	3.5	3.6	3.8	4.0	3.2	3.3	3.1	3.2	3.2	e3.2	3.1	3.2
6	3.5	3.6	3.9	4.0	3.2	3.2	3.1	3.2	3.2	e3.2	3.1	3.3
7	3.5	3.6	3.9	3.9	3.2	3.3	3.1	3.1	3.2	e3.2	3.2	3.3
8	3.6	3.6	4.0	3.8	e3.4	3.3	3.1	3.0	3.2	e3.2	3.2	3.3
9	3.6	3.6	4.0	3.5	e3.4	3.3	3.1	3.0	e3.2	e3.2	3.2	3.3
10	3.6	3.6	4.0	3.5	e3.4	3.2	3.1	3.0	e3.2	e3.2	3.2	3.3
11	3.6	3.6	4.1	3.6	3.3	3.2	3.1	3.0	e3.2	e3.2	3.2	3.3
12	3.6	3.6	4.1	3.6	3.5	3.2	3.1	3.0	e3.2	e3.2	3.2	3.3
13	3.6	3.6	4.1	e3.6	3.4	3.2	3.1	3.0	e3.2	e3.2	3.2	3.3
14	3.6	3.6	4.1	e3.5	3.4	3.2	3.1	3.0	e3.2	e3.2	3.1	3.3
15	3.7	3.6	4.0	e3.5	3.4	3.2	3.1	3.0	e3.2	e3.2	3.1	3.3
16	3.7	3.5	4.1	3.4	3.4	3.2	3.1	3.0	e3.2	e3.2	3.1	3.4
17	e3.6	3.5	4.1	e3.4	3.4	3.2	3.1	3.0	e3.2	e3.2	3.1	3.4
18	3.5	3.5	4.1	e3.4	3.4	3.2	3.1	2.9	e3.2	e3.2	3.1	3.4
19	3.7	3.5	4.1	e3.4	3.4	3.2	3.2	3.0	e3.2	e3.2	3.1	3.4
20	3.8	3.5	4.1	e3.4	3.4	3.2	3.2	3.1	e3.2	e3.2	3.1	3.4
21	3.7	3.6	4.1	3.4	3.4	3.2	3.2	3.1	e3.2	e3.2	3.1	3.5
22	3.7	3.6	4.1	e3.4	3.4	3.2	3.2	3.1	e3.2	e3.2	3.2	3.5
23	3.6	3.7	4.1	e3.3	3.4	3.2	3.2	3.1	e3.2	e3.2	3.2	3.5
24	3.6	3.7	4.1	3.3	3.3	3.2	3.2	3.2	e3.2	e3.2	3.2	3.5
25	3.6	3.8	4.0	3.3	3.3	3.2	3.2	3.2	e3.2	3.2	3.2	3.5
26	3.6	3.8	4.0	3.3	3.4	3.2	3.2	3.2	e3.2	3.2	3.2	3.5
27	e3.6	3.8	4.0	3.3	3.3	3.2	3.2	3.3	e3.2	3.2	3.2	3.5
28	3.6	3.8	4.0	3.4	3.3	3.2	3.2	3.2	e3.2	3.2	3.2	3.5
29	3.6	3.8	3.9	3.4	3.3	3.2	3.2	3.3	e3.2	3.1	3.2	3.5
30	3.6	3.8	4.1	e3.4	---	3.2	3.2	3.3	e3.2	3.1	3.4	3.5
31	3.7	---	4.0	e3.4	---	3.2	---	3.3	---	3.1	3.4	---
TOTAL	111.6	108.9	124.1	110.3	97.6	100.1	94.2	96.6	96.0	98.9	98.2	101.3
MEAN	3.60	3.63	4.00	3.56	3.37	3.23	3.14	3.12	3.20	3.19	3.17	3.38
MAX	3.8	3.8	4.1	4.0	3.5	3.4	3.2	3.3	3.2	3.2	3.4	3.5
MIN	3.5	3.4	3.8	3.3	3.2	3.2	3.1	2.9	3.2	3.1	3.1	3.2
AC-FT	221	216	246	219	194	199	187	192	190	196	195	201

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	3.54	3.58	3.58	3.53	3.53	3.52	3.54	3.56	3.63	3.60	3.53	3.55
MAX	3.83	3.78	4.00	3.76	3.84	4.02	3.79	3.94	3.87	3.87	3.89	3.80
(WY)	1988	1990	1992	1990	1990	1990	1990	1990	1987	1990	1990	1990
MIN	3.33	3.46	3.34	3.30	3.31	3.23	3.14	3.12	3.20	3.19	3.17	3.38
(WY)	1989	1989	1986	1988	1986	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	1334.2	1237.8	
ANNUAL MEAN	3.66	3.38	3.56
HIGHEST ANNUAL MEAN			3.81
LOWEST ANNUAL MEAN			3.38
HIGHEST DAILY MEAN	4.1	4.1	4.1
LOWEST DAILY MEAN	3.2	2.9	2.9
ANNUAL SEVEN-DAY MINIMUM	3.2	3.0	3.0
INSTANTANEOUS PEAK FLOW		4.8	13
INSTANTANEOUS PEAK STAGE		1.12	2.16
ANNUAL RUNOFF (AC-FT)	2650	2460	2580
10 PERCENT EXCEEDS	4.0	3.8	3.9
50 PERCENT EXCEEDS	3.6	3.3	3.5
90 PERCENT EXCEEDS	3.4	3.1	3.3

VIRGIN RIVER BASIN

61

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 mi², approximately, of which about 40 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

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. Monthly discharge only for some periods, published in WSP 1313. Records for January 1904 to December 1906 (gage heights only), 1908-9 (discharge measurements only), and April to October 1910 not equivalent owing to large difference in drainage area.

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 .04 inch increment since December 1989. Elevation of gage is 1,710 ft above sea level, 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 fair. 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. Maximum daily precipitation total since December 1989, 2.04 in., August 15, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 145 ft³/s, August 30, gage height, 2.20 ft; minimum daily, 26 ft³/s, November 29. Maximum daily precipitation, 0.76 in., February 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	33	29	33	36	45	47	37	42	37	32	32
2	29	34	27	33	37	46	43	38	41	38	32	32
3	30	34	27	34	37	46	41	37	39	37	32	32
4	31	34	29	35	38	44	40	37	40	37	32	32
5	34	35	30	36	39	44	41	36	40	37	32	32
6	32	35	29	49	37	42	42	34	40	37	32	33
7	30	34	28	38	35	45	43	32	40	37	33	33
8	31	33	29	34	37	55	43	31	40	38	33	33
9	31	34	30	34	38	46	42	33	39	37	34	32
10	33	34	29	36	41	45	42	34	38	36	32	33
11	33	34	29	36	39	45	43	35	38	37	31	33
12	33	34	30	36	41	45	44	36	39	37	30	33
13	34	35	32	36	60	45	42	35	40	37	30	32
14	33	34	33	37	56	44	38	35	40	36	31	30
15	31	36	34	36	44	44	36	35	38	36	30	30
16	31	35	34	36	44	46	34	34	39	36	31	31
17	31	35	33	36	41	46	33	34	38	35	30	31
18	32	35	31	37	39	47	34	34	38	35	30	31
19	31	34	32	36	37	46	35	34	38	35	30	32
20	34	35	32	37	35	45	37	35	37	33	30	33
21	34	35	32	37	37	50	36	38	39	34	30	33
22	33	35	35	37	38	47	35	37	38	33	30	33
23	32	35	37	38	39	45	37	37	38	34	31	33
24	34	36	37	36	42	44	39	37	39	35	31	34
25	35	34	37	35	42	43	39	37	39	34	31	33
26	36	35	37	35	41	43	38	38	37	34	34	34
27	36	33	36	35	43	51	37	41	38	33	32	34
28	33	32	36	37	43	48	35	42	38	33	32	33
29	33	26	37	34	43	46	35	43	38	33	31	33
30	33	29	42	34	---	66	36	52	37	33	49	34
31	33	---	38	34	---	55	---	44	---	32	33	---
TOTAL	1011	1017	1011	1117	1179	1449	1167	1142	1165	1096	991	974
MEAN	32.6	33.9	32.6	36.0	40.7	46.7	38.9	36.8	38.8	35.4	32.0	32.5
MAX	36	36	42	49	60	66	47	52	42	38	49	34
MIN	29	26	27	33	35	42	33	31	37	32	30	30
AC-FT	2010	2020	2010	2220	2340	2870	2310	2270	2310	2170	1970	1930
†	.35	.68	1.00	1.00	1.28	2.44	.00	.52	.00	.28	.24	.00

† Precipitation total, in inches

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	41.9	43.8	45.3	45.8	45.6	45.0	42.7	41.9	39.9	39.6	41.0	42.2
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	29.4	33.2	32.6	35.8	34.6	31.9	31.3	35.1	32.4	30.5	28.0	30.0
(WY)	1990	1991	1992	1989	1990	1990	1989	1984	1984	1978	1986	1977

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1913 - 1992	
ANNUAL TOTAL	13145		13319			
ANNUAL MEAN	36.0		36.4		42.9	
HIGHEST ANNUAL MEAN					49.6	1958
LOWEST ANNUAL MEAN					33.7	1989
HIGHEST DAILY MEAN	86	Sep 7	66	Mar 30	930	Aug 16 1990
LOWEST DAILY MEAN	26	Nov 29	26	Nov 29	20	Aug 21 1986
ANNUAL SEVEN-DAY MINIMUM	28	Nov 29	28	Nov 29	26	Aug 15 1986
INSTANTANEOUS PEAK FLOW			145	Aug 30	5760	Aug 16 1990
INSTANTANEOUS PEAK STAGE			2.20	Aug 30	13.33	Aug 16 1990
ANNUAL RUNOFF (AC-FT)	26070		26420		31080	
10 PERCENT EXCEEDS	40		44		50	
50 PERCENT EXCEEDS	36		35		43	
90 PERCENT EXCEEDS	31		31		34	

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

63

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1988 to current year.

WATER TEMPERATURE: June 1988 to current year.

INSTRUMENTATION.--Specific-conductance recorder since September 1988, hourly. Water-temperature recorder since June 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1490 microsiemens, February 13, 1992; minimum recorded,

496 microsiemens, September 7, 1991.

WATER TEMPERATURE: Maximum, 33.0°C, August 9, 1990, July 28, 29, August 8, 13, 1991; minimum, 16.5°C, January 6, 1992.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 1490 microsiemens, February 13; minimum recorded, 681 microsiemens, March 30.

WATER TEMPERATURE.--Maximum, 32.5°C, several days in July and August; minimum, 16.5°C, January 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
OCT 03...	1430	28	980	33.0	30.5	280	65	29	100
NOV 12...	1430	35	990	26.0	27.5	--	--	--	--
JAN 06...	1430	47	1050	10.0	22.5	300	70	30	110
FEB 11...	1330	38	1090	18.5	27.0	--	--	--	--
APR 02...	1245	42	1050	28.5	29.0	--	--	--	--
MAY 12...	0900	38	1030	23.0	27.0	--	--	--	--
JUN 24...	0945	40	988	35.0	28.0	280	64	28	99
JUL 27...	1245	31	1000	39.5	30.5	--	--	--	--
SEP 15...	1200	30	990	--	29.5	270	65	27	97

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 03...	3	10	230	69	1.9	31	635	649	0.86
NOV 12...	--	--	--	--	--	--	631	--	--
JAN 06...	3	14	220	71	2.2	28	664	688	0.90
FEB 11...	--	--	--	--	--	--	674	--	--
APR 02...	--	--	--	--	--	--	678	--	--
MAY 12...	--	--	--	--	--	--	646	--	--
JUN 24...	3	11	180	67	2.4	29	638	621	0.87
JUL 27...	--	--	--	--	--	--	608	--	--
SEP 15...	3	11	180	66	2.2	30	610	613	0.83

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	997	947	974	999	977	989	978	957	969	1040	1020	1030
2	1020	928	982	1000	980	991	979	968	973	1030	1010	1030
3	991	979	984	1000	981	991	981	970	973	1040	1020	1030
4	993	972	984	1000	983	993	982	971	975	1040	1030	1030
5	985	973	982	1010	985	995	984	973	975	1050	1020	1030
6	987	975	982	1010	987	995	975	965	972	1150	920	1060
7	979	969	978	1000	989	995	977	966	972	1070	1040	1060
8	991	979	980	1000	991	995	978	967	973	1040	1020	1030
9	983	971	981	1000	993	997	979	959	971	1030	1020	1030
10	985	974	982	997	985	995	991	970	977	1030	1010	1020
11	987	975	980	999	987	995	992	973	988	1030	1010	1020
12	999	977	987	1000	980	992	984	974	983	1020	996	1010
13	991	979	988	992	981	983	986	974	980	1020	997	1010
14	1000	981	991	993	973	983	987	976	979	1020	1010	1010
15	1000	983	993	1070	974	1020	988	968	978	1030	1010	1010
16	997	985	993	1020	995	1000	990	969	979	1020	1010	1010
17	1010	987	996	998	987	993	991	980	983	1020	1010	1010
18	1000	989	995	998	979	990	1000	982	990	1020	1000	1010
19	1000	991	995	990	979	984	994	983	987	1010	984	1010
20	1000	983	994	992	971	984	995	975	985	1020	985	1010
21	997	985	992	993	974	984	997	977	988	1020	986	1000
22	999	987	993	994	974	981	998	978	990	1020	977	999
23	1000	989	993	986	975	979	1000	979	992	1020	988	1000
24	993	982	991	988	968	979	1000	980	993	1030	989	1010
25	995	983	988	989	968	978	1000	982	991	1040	1020	1030
26	997	976	988	990	970	979	1000	983	993	1040	1020	1030
27	1020	987	1000	982	971	977	1010	985	997	1040	1020	1030
28	1000	980	989	974	963	971	1020	996	999	1030	1020	1030
29	993	981	987	985	964	976	1020	998	1010	1040	1020	1030
30	995	974	987	977	966	972	1170	1030	1130	1040	996	1020
31	997	975	988	---	---	---	1080	1040	1060	1040	997	1020
MONTH	1020	928	988	1070	963	988	1170	957	990	1150	920	1020
FEBRUARY			MARCH			APRIL			MAY			
1	1040	998	1020	1020	1010	1020	1060	970	1040	1070	1060	1060
2	1030	1000	1020	1030	1010	1020	1240	1020	1130	1070	1050	1060
3	1040	1000	1030	1090	1020	1050	1240	1200	1220	1070	1050	1060
4	1040	1000	1020	1100	1040	1060	1220	1190	1210	1070	1040	1060
5	1040	1000	1030	1070	1040	1050	1210	1180	1200	1060	1040	1060
6	1040	1030	1040	1040	1020	1030	1210	1170	1190	1060	1050	1050
7	1050	1030	1040	1040	1020	1030	1190	1170	1190	1060	1030	1050
8	1050	1040	1040	1130	980	1070	1190	1170	1180	1050	1030	1040
9	1050	1040	1050	1130	1070	1100	1180	1170	1180	1060	1040	1050
10	1110	1040	1070	1080	1050	1060	1170	1160	1170	1050	1030	1040
11	1100	1050	1080	1050	1020	1040	1170	1160	1170	1040	1020	1030
12	1230	1060	1090	1040	1020	1030	1170	1160	1160	1040	1020	1030
13	1490	1230	1340	1040	1030	1030	1160	1120	1150	1160	1020	1040
14	1160	759	1000	1030	1020	1020	1150	1120	1140	1030	1010	1030
15	1160	1120	1130	1030	1020	1020	1150	1120	1130	1030	1000	1020
16	1120	1090	1110	1030	987	1010	1140	1100	1130	1020	1000	1020
17	1100	1080	1090	1020	986	1010	1130	1100	1120	1030	1000	1020
18	1100	1080	1080	1010	976	993	1130	1100	1120	1020	1000	1010
19	1090	1070	1080	1010	975	996	1120	1090	1110	1010	1000	1010
20	1080	986	1060	1000	975	996	1110	1100	1100	1010	1000	1010
21	1070	1050	1050	1110	975	1020	1110	1090	1100	1020	996	1010
22	1060	1050	1050	1020	1010	1020	1110	1090	1100	1020	997	1010
23	1040	1030	1040	1030	1010	1020	1100	1080	1100	1020	997	1010
24	1040	1020	1040	1010	983	1010	1110	1080	1090	1020	1010	1010
25	1040	1030	1040	1010	983	1000	1100	1070	1090	1020	999	1010
26	1040	1020	1030	1010	993	1000	1090	1070	1090	1020	999	1010
27	1040	1020	1030	1100	993	1030	1100	1070	1090	1060	980	1010
28	1030	1010	1020	1100	1020	1050	1090	1060	1080	990	971	981
29	1030	1010	1020	1030	1010	1020	1080	1060	1070	1110	921	989
30	---	---	---	1080	681	903	1080	1060	1070	982	682	919
31	---	---	---	1070	721	968	---	---	---	983	972	979
MONTH	1490	759	1060	1130	681	1020	1240	970	1130	1160	682	1020

VIRGIN RIVER BASIN

65

09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1000	993	996	1030	1010	1020	---	---	---	---	---	---
2	1010	994	1000	1030	1020	1020	---	---	---	---	---	---
3	1000	994	1000	1040	1020	1030	---	---	---	---	---	---
4	995	955	980	---	---	---	---	---	---	---	---	---
5	986	966	982	---	---	---	---	---	---	---	---	---
6	987	956	981	1050	1040	1040	---	---	---	---	---	---
7	987	977	981	1060	1040	1050	---	---	---	---	---	---
8	988	938	973	1060	1040	1050	---	---	---	---	---	---
9	989	928	970	1060	1050	1060	---	---	---	---	---	---
10	989	969	978	---	---	---	---	---	---	---	---	---
11	1000	979	993	1070	1050	1060	---	---	---	---	---	---
12	1000	980	990	1070	1060	1070	---	---	---	---	---	---
13	1000	961	987	1080	1060	1070	---	---	---	---	---	---
14	1000	991	996	---	---	---	---	---	---	---	---	---
15	1000	962	992	---	---	---	---	---	---	---	---	---
16	1010	993	1000	---	---	---	---	---	---	---	---	---
17	1010	993	1000	---	---	---	---	---	---	---	---	---
18	1000	994	997	---	---	---	---	---	---	---	---	---
19	1000	995	998	---	---	---	---	---	---	1010	1000	1000
20	996	985	992	---	---	---	---	---	---	1010	990	1000
21	996	986	990	---	---	---	---	---	---	1010	1000	1000
22	997	977	990	---	---	---	---	---	---	1010	990	1000
23	998	977	987	---	---	---	---	---	---	1010	990	1000
24	---	---	---	---	---	---	---	---	---	1000	990	998
25	---	---	---	---	---	---	---	---	---	1000	990	991
26	---	---	---	---	---	---	---	---	---	---	---	---
27	1020	1000	1010	1010	999	1000	---	---	---	---	---	---
28	1020	1010	1010	1010	991	1000	---	---	---	---	---	---
29	1020	1000	1010	1010	991	998	---	---	---	---	---	---
30	1020	1010	1020	1000	982	988	---	---	---	---	---	---
31	---	---	---	993	973	987	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	32.0	29.5	30.5	27.5	25.5	26.5	24.5	23.0	24.0	25.0	23.5	24.0
2	32.0	29.0	30.0	27.5	25.5	26.0	24.5	23.5	24.0	25.0	23.5	24.0
3	31.0	29.0	29.5	27.5	26.0	26.5	25.0	23.0	24.0	24.5	23.5	24.0
4	31.0	28.0	29.0	27.5	26.0	26.5	25.0	23.5	24.0	25.0	24.0	24.5
5	30.5	27.5	29.0	28.0	26.0	27.0	25.5	23.5	24.5	24.5	23.0	24.5
6	31.0	27.5	29.0	28.0	26.0	27.0	25.5	23.5	24.5	24.0	16.5	21.0
7	30.5	27.5	29.0	28.5	26.5	27.5	25.5	23.5	24.5	25.5	24.0	24.5
8	30.5	28.0	29.0	28.5	26.5	27.5	25.5	24.0	24.5	25.0	23.5	24.5
9	30.5	28.5	29.0	28.0	26.5	27.0	25.5	24.0	24.5	25.5	23.5	24.5
10	30.5	28.5	29.5	28.0	26.5	27.5	25.0	24.0	24.5	25.0	24.0	24.5
11	31.0	28.0	29.5	27.5	26.5	27.0	25.0	24.0	24.5	25.5	24.0	24.5
12	30.5	28.5	29.5	27.5	26.0	26.5	25.5	23.5	24.5	24.5	23.5	24.0
13	30.5	28.0	29.0	27.5	26.0	26.5	25.0	23.5	24.0	25.5	23.5	24.5
14	30.5	28.0	29.0	26.0	25.0	25.5	25.0	23.5	24.0	25.5	23.5	24.5
15	30.5	28.0	29.0	25.5	24.5	25.0	25.0	23.5	24.0	25.5	24.0	25.0
16	30.0	27.0	28.5	26.5	25.5	26.0	25.0	23.5	24.0	25.5	24.0	25.0
17	30.0	27.5	28.5	26.5	25.5	26.0	25.0	24.0	24.5	26.0	24.0	25.0
18	30.0	27.5	28.5	26.5	25.5	26.0	25.5	24.0	25.0	25.5	24.5	25.0
19	30.0	27.5	28.5	26.0	25.5	25.5	25.0	24.0	24.5	25.5	24.0	24.5
20	29.0	27.5	28.5	26.5	25.0	25.5	24.5	23.0	24.0	26.0	24.0	25.0
21	29.5	27.5	28.0	26.5	25.0	25.5	25.0	23.0	24.0	26.0	24.5	25.0
22	29.0	27.0	28.0	25.5	25.0	25.0	25.0	23.5	24.0	26.0	24.0	25.0
23	28.5	27.5	28.0	26.0	24.5	25.0	25.0	23.5	24.0	26.0	24.5	25.0
24	28.5	27.0	27.5	26.0	24.5	25.0	25.0	23.5	24.5	26.5	24.0	25.0
25	28.5	26.5	27.5	26.0	24.0	25.0	25.0	23.5	24.0	26.5	24.5	25.5
26	28.0	26.5	27.0	26.5	24.5	25.5	25.0	23.0	24.0	26.5	24.5	25.5
27	27.5	26.0	27.0	26.5	24.5	25.5	25.5	23.5	24.0	27.0	24.5	25.5
28	27.0	25.5	26.0	25.0	24.0	24.5	25.0	24.0	24.5	26.5	25.0	25.5
29	27.0	26.0	26.5	25.0	24.0	24.5	25.0	24.5	24.5	27.5	25.0	26.0
30	26.5	25.0	26.0	24.0	23.0	23.5	24.0	21.5	23.0	27.5	25.5	26.0
31	27.0	25.0	26.0	---	---	---	25.0	23.5	24.5	27.0	25.0	26.0
MONTH	32.0	25.0	28.4	28.5	23.0	25.9	25.5	21.5	24.2	27.5	16.5	24.7

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	27.0	24.5	25.5	28.5	26.5	27.0	29.0	27.5	28.0	30.0	26.5	28.0
2	27.5	25.0	26.0	27.0	27.0	27.0	29.5	27.0	28.0	30.0	27.0	28.0
3	27.0	25.0	25.5	27.0	26.0	26.5	30.0	26.5	28.0	30.0	26.5	28.0
4	27.0	25.0	26.0	28.5	26.0	27.0	30.0	26.5	28.0	29.5	27.0	28.0
5	27.5	25.0	26.0	28.5	26.0	27.0	30.0	27.0	28.0	29.5	27.5	28.0
6	27.0	25.5	26.0	28.0	26.5	27.0	29.5	27.0	28.0	29.5	27.5	28.0
7	27.0	26.0	26.5	26.5	26.0	26.5	30.0	27.0	28.0	30.5	27.0	28.5
8	27.5	26.5	27.0	27.0	21.0	24.5	30.0	27.0	28.0	30.5	27.0	28.5
9	27.5	26.5	27.0	28.5	25.5	27.0	30.0	27.0	28.0	29.5	27.0	28.0
10	27.0	26.5	26.5	29.0	26.0	27.0	30.0	27.0	28.0	29.5	26.5	27.5
11	27.0	26.5	27.0	29.0	26.5	27.5	30.0	27.0	28.0	30.0	26.5	28.0
12	26.5	20.5	25.5	29.5	26.5	27.5	30.0	27.0	28.0	30.0	27.0	28.5
13	25.5	17.0	22.5	29.5	26.5	27.5	30.0	26.5	28.0	29.5	27.0	28.0
14	26.0	17.5	22.5	29.0	26.5	27.5	29.5	26.5	28.0	30.0	26.5	28.0
15	26.5	25.0	25.5	29.5	26.5	27.5	29.5	26.5	28.0	30.5	26.5	28.0
16	27.0	25.0	26.0	29.0	26.5	27.5	30.0	27.0	28.0	30.5	26.5	28.0
17	27.5	25.0	26.0	29.0	26.5	27.5	29.0	27.0	28.0	30.5	26.5	28.5
18	27.5	25.0	26.0	29.0	26.0	27.5	29.0	26.5	27.5	30.5	26.5	28.5
19	27.5	25.0	26.0	29.0	26.0	27.5	29.0	26.0	27.5	29.5	27.0	28.0
20	27.5	25.5	26.5	29.5	26.5	27.5	29.5	26.5	27.5	30.0	27.0	28.5
21	28.0	26.0	27.0	28.0	21.0	26.0	29.0	26.5	27.5	28.5	27.5	28.0
22	28.5	26.5	27.0	28.0	25.5	27.0	29.0	26.5	27.5	30.0	27.0	28.0
23	28.0	26.0	26.5	28.0	26.5	27.0	30.0	26.0	27.5	30.5	27.5	28.5
24	28.0	26.0	26.5	29.0	26.0	27.5	30.0	26.5	28.0	29.5	27.5	28.5
25	28.0	26.0	27.0	29.0	26.5	27.5	30.5	26.5	28.0	31.0	27.5	29.0
26	28.0	26.0	27.0	29.5	27.0	28.0	30.5	26.5	28.0	29.5	28.0	28.5
27	28.5	26.0	27.0	28.0	25.0	27.0	30.5	26.5	28.5	30.5	27.5	28.5
28	28.5	26.0	27.0	29.5	25.0	27.5	30.5	26.5	28.0	29.5	28.0	28.5
29	28.5	26.0	27.0	30.0	27.0	28.0	30.0	26.5	28.0	30.0	27.0	28.5
30	---	---	---	27.5	17.0	24.0	29.5	26.5	28.0	30.0	23.5	27.5
31	---	---	---	29.0	20.5	26.0	---	---	---	31.0	27.5	29.0
MONTH	28.5	17.0	26.1	30.0	17.0	27.0	30.5	26.0	27.9	31.0	23.5	28.2
JUNE			JULY			AUGUST			SEPTEMBER			
1	31.5	27.5	29.0	30.5	27.0	28.5	32.5	29.0	30.0	31.0	28.0	29.5
2	31.0	28.0	29.0	31.0	27.5	29.0	32.5	28.5	30.0	31.0	28.5	29.5
3	31.5	28.0	29.5	31.0	27.0	28.5	32.0	28.5	30.0	30.0	28.0	29.0
4	31.0	27.5	29.0	31.0	27.5	29.0	31.0	29.0	30.0	31.0	28.0	29.5
5	31.5	27.5	29.0	31.0	27.5	29.0	30.5	29.0	29.5	31.5	28.0	29.5
6	30.5	27.5	28.5	31.0	28.0	29.0	31.5	29.0	30.0	31.5	28.0	29.5
7	31.0	27.0	28.5	29.5	28.5	29.0	32.0	29.0	30.0	31.5	28.0	29.5
8	31.0	27.0	29.0	29.5	28.5	29.0	32.0	28.5	30.0	31.5	28.5	29.5
9	31.0	27.5	29.0	31.0	28.0	29.5	32.0	28.5	30.0	31.5	28.0	29.5
10	30.5	27.5	28.5	31.0	28.5	29.5	32.0	29.0	30.0	31.5	28.0	29.5
11	30.5	27.0	28.5	31.0	28.5	29.5	32.5	29.0	30.5	31.5	28.0	29.5
12	29.5	26.5	28.0	30.5	28.5	29.5	32.5	29.0	30.5	31.5	28.5	29.5
13	30.0	26.5	28.0	31.5	28.5	29.5	32.0	29.0	30.5	31.5	28.0	29.5
14	29.0	26.0	27.5	32.0	28.5	30.0	32.5	29.0	30.5	31.0	28.0	29.5
15	30.0	26.5	27.5	32.0	28.0	29.5	32.5	29.0	30.5	31.0	28.5	29.5
16	30.0	26.5	28.0	32.0	28.5	30.0	32.0	29.0	30.5	31.0	28.5	29.5
17	30.5	26.5	28.5	32.0	28.5	30.0	32.5	28.5	30.0	31.0	28.0	29.5
18	31.0	26.5	28.5	32.0	29.0	30.0	32.5	28.5	30.0	31.0	29.0	29.5
19	31.0	27.0	28.5	32.5	28.0	30.0	32.0	28.5	30.0	31.0	28.0	29.5
20	31.0	26.5	28.5	31.5	28.0	29.5	32.0	28.5	30.0	31.0	28.0	29.5
21	31.0	27.0	29.0	31.5	28.0	29.5	31.5	29.0	30.0	31.5	28.5	29.5
22	30.0	27.5	28.5	31.5	28.5	29.5	31.0	28.5	29.5	31.5	28.5	29.5
23	30.5	27.5	29.0	31.5	28.0	29.5	31.0	28.0	29.5	31.5	29.0	30.0
24	---	---	---	31.5	29.0	30.0	31.0	28.0	29.5	31.0	29.0	29.5
25	---	---	---	32.0	29.0	30.0	31.5	29.0	30.0	30.5	28.0	29.0
26	---	---	---	32.5	29.0	30.5	31.5	28.5	30.0	31.0	28.0	29.0
27	31.5	27.5	29.0	32.0	28.5	30.0	31.5	28.0	29.5	31.0	28.0	29.0
28	31.0	27.5	29.0	32.0	28.5	30.0	31.0	28.0	29.5	31.5	28.0	29.5
29	29.0	27.5	28.0	32.0	28.0	30.0	31.5	28.0	29.5	31.5	28.0	29.5
30	30.5	27.0	28.5	32.0	28.5	30.0	29.5	21.5	27.5	31.5	28.5	29.5
31	---	---	---	31.5	29.0	30.0	31.5	28.5	29.5	---	---	---
MONTH	---	---	---	32.5	27.0	29.6	32.5	21.5	29.9	31.5	28.0	29.4

VIRGIN RIVER BASIN

67

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 right bank, 0.5 mi east of Etna, 4.5 mi southwest of Caliente, and 6 mi downstream from Clover Creek.

DRAINAGE AREA.--1,670 mi².

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 sea level, by barometer. Prior to June 16, 1955, at site 1.8 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Several diversions for irrigation above station.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 4	0430	*905	*8.03	No other peak greater than base discharge.			
Minimum daily, 0.42 ft ³ /s, Sept. 24.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	1.0	1.4	3.8	3.8	5.6	12	3.9	1.4	1.2	1.3	1.2
2	.91	1.0	1.4	3.3	6.1	6.0	7.3	4.2	1.1	1.0	1.2	1.1
3	.88	1.0	1.4	3.2	8.3	217	7.2	4.3	1.0	.81	1.2	1.1
4	.90	1.1	1.4	3.0	15	716	7.2	4.3	.94	1.2	1.1	1.1
5	.86	1.1	1.4	3.9	26	174	6.9	4.5	.90	1.2	1.1	.95
6	.87	1.1	1.4	6.5	23	22	6.6	4.9	.81	1.7	1.2	.92
7	.90	1.1	1.4	7.7	18	7.5	6.1	5.2	.73	2.2	1.3	.48
8	.93	1.2	1.5	6.7	17	12	5.9	5.6	.69	2.1	1.4	.70
9	.89	1.2	1.5	4.1	16	37	5.6	5.6	.66	2.0	1.3	.68
10	.91	1.2	1.6	3.1	18	26	5.6	5.6	.59	1.9	1.6	.68
11	.90	1.2	3.0	2.6	38	8.9	5.2	5.9	.55	1.7	1.4	.68
12	.89	1.2	2.7	2.5	57	7.1	5.0	6.1	.53	2.4	1.3	.82
13	.88	1.2	3.3	2.1	128	6.3	4.8	6.1	.71	1.7	1.3	.85
14	.87	1.4	3.0	2.0	122	5.6	4.4	6.4	.84	1.9	1.4	.81
15	.89	1.6	2.4	1.9	20	5.1	4.3	6.6	.86	1.8	1.4	.86
16	.88	1.5	2.0	1.8	15	4.7	4.3	6.5	.80	1.6	1.2	.88
17	.90	1.5	2.2	1.9	12	4.2	4.3	6.1	.74	2.2	1.2	.99
18	.91	1.6	2.2	2.0	11	3.7	4.3	4.6	.81	2.2	1.0	.98
19	.93	1.5	3.2	1.7	9.8	3.3	4.2	2.4	1.1	2.0	1.1	.88
20	.94	1.5	3.5	1.7	8.8	3.1	3.9	2.2	1.3	2.4	1.2	.59
21	.96	1.5	3.8	1.8	8.0	3.1	4.2	2.9	1.8	1.3	1.2	.66
22	.97	1.5	3.4	1.8	6.9	3.5	4.3	3.2	2.1	1.4	1.3	.70
23	.96	1.4	3.4	1.8	6.5	12	4.3	3.3	2.2	2.2	1.3	.74
24	.96	1.3	3.6	1.7	6.1	58	4.3	3.1	2.2	2.1	1.2	.42
25	.95	1.3	3.1	2.0	5.8	52	4.3	3.0	2.2	1.6	1.2	.63
26	.94	1.3	2.8	1.9	5.7	6.7	4.0	2.3	2.2	1.7	1.2	.56
27	.99	1.3	2.5	2.0	5.5	5.7	3.9	2.2	1.9	1.3	1.2	.63
28	.96	1.3	2.5	2.0	5.5	62	3.9	2.8	1.8	1.2	1.2	.64
29	1.0	1.4	2.7	2.1	5.4	27	3.9	2.5	1.6	1.5	.93	.56
30	1.0	1.4	3.4	2.8	---	7.5	3.9	1.9	1.4	1.4	1.1	.65
31	1.0	---	3.8	3.4	---	8.0	---	1.7	---	1.3	1.2	---
TOTAL	28.65	38.9	76.9	88.8	628.2	1520.6	156.1	129.9	36.46	52.21	38.23	23.44
MEAN	.92	1.30	2.48	2.86	21.7	49.1	5.20	4.19	1.22	1.68	1.23	.78
MAX	1.0	1.6	3.8	7.7	128	716	12	6.6	2.2	2.4	1.6	1.2
MIN	.86	1.0	1.4	1.7	3.8	3.1	3.9	1.7	.53	.81	.93	.42
AC-FT	57	77	153	176	1250	3020	310	258	72	104	76	46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1992, BY WATER YEAR (WY)

	3.01	4.65	8.00	11.5	24.4	33.8	17.4	6.00	3.18	3.10	5.89	2.70
MEAN	3.01	4.65	8.00	11.5	24.4	33.8	17.4	6.00	3.18	3.10	5.89	2.70
MAX	12.6	12.7	27.7	81.9	202	280	160	28.3	11.5	13.9	44.4	11.7
(WY)	1973	1958	1952	1969	1980	1978	1969	1983	1956	1956	1955	1967
MIN	.92	1.30	1.56	2.86	4.66	3.32	2.40	1.57	1.22	.89	.92	.78
(WY)	1992	1992	1990	1992	1965	1977	1959	1990	1992	1989	1966	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1951 - 1992

ANNUAL TOTAL	1773.18	2818.39	
ANNUAL MEAN	4.86	7.70	10.6
HIGHEST ANNUAL MEAN			33.2
LOWEST ANNUAL MEAN			2.42
HIGHEST DAILY MEAN	23	716	1480
LOWEST DAILY MEAN	.81	.42	.00
ANNUAL SEVEN-DAY MINIMUM	.83	.58	.37
INSTANTANEOUS PEAK FLOW		905	2400
INSTANTANEOUS PEAK STAGE		8.03	9.41
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	3520	5590	7690
10 PERCENT EXCEEDS	13	7.5	17
50 PERCENT EXCEEDS	2.3	1.8	3.6
90 PERCENT EXCEEDS	.92	.87	1.4

VIRGIN RIVER BASIN

09418700 MEADOW VALLEY WASH NEAR ROX, NV

LOCATION.--Lat 36°52'11", long 114°26'33", 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1987 to current year.

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

REMARKS.--Records good except for summer months which are fair and estimated daily discharges which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 340 ft³/s, March 4, gage height, 4.40 ft; minimum daily, 0.56 ft³/s, October 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.73	1.2	1.6	1.6	3.3	e10	e1.3	.85	1.4	.99	.82
2	.56	.74	1.2	1.6	1.6	3.3	8.8	e1.3	.80	1.4	.98	.81
3	.56	.74	1.2	1.7	1.6	3.9	4.0	e1.3	.77	1.5	1.0	.81
4	.56	.75	1.2	1.7	1.6	69	3.7	e1.3	.74	1.6	1.0	.82
5	.57	.79	1.3	1.9	1.7	261	3.2	e1.2	.73	1.6	1.1	.79
6	.57	.81	1.3	3.3	1.7	77	3.0	e1.2	.73	1.6	1.1	.77
7	.59	.82	1.3	1.6	1.7	13	2.8	e1.2	.72	1.6	1.1	.76
8	.58	.86	1.3	1.4	1.7	9.1	2.6	e1.2	.72	1.7	1.1	.76
9	.59	.90	1.3	1.4	1.7	9.4	2.5	e1.2	.72	1.7	1.0	.77
10	.59	.92	1.4	1.4	1.9	18	2.4	e1.2	.70	1.8	.88	.76
11	.61	.94	1.5	1.4	1.9	15	2.0	e1.2	.70	1.8	.82	.74
12	.65	.97	1.4	1.4	1.9	9.1	2.0	1.2	.71	1.8	.76	.72
13	.67	1.0	1.4	1.4	10	6.1	1.8	1.2	.70	1.9	.76	.72
14	.68	1.1	1.4	1.4	114	4.1	1.9	1.2	.72	1.9	.77	.71
15	.71	1.1	1.4	1.4	12	3.7	1.9	1.3	.73	1.8	.81	.69
16	.73	1.1	1.4	1.4	6.1	3.4	e1.8	1.2	.75	1.7	.76	.67
17	.72	1.1	1.4	1.4	4.3	3.0	e1.7	1.2	.74	1.6	.75	.67
18	.73	1.1	1.5	1.4	3.7	3.3	e1.6	1.2	.78	1.5	.77	.69
19	.73	1.1	1.5	1.4	3.5	3.2	e1.6	1.2	.82	1.3	.78	.70
20	.74	1.2	1.5	1.4	3.5	3.0	e1.5	1.2	.83	1.2	.78	.69
21	.75	1.2	1.5	1.5	3.5	3.1	e1.5	1.3	.84	1.1	.77	.68
22	.71	1.3	1.6	1.5	3.5	3.5	e1.5	1.3	.90	1.1	.78	.68
23	.69	1.3	1.6	1.5	3.5	7.2	e1.4	1.2	.97	1.1	.80	.65
24	.69	1.3	1.6	1.5	3.4	43	e1.4	1.1	1.1	1.1	.81	.63
25	.69	1.4	1.6	1.6	3.4	23	e1.4	1.1	1.1	1.0	.83	.60
26	.69	1.4	1.6	1.6	3.4	17	e1.4	1.1	1.2	.99	.77	.61
27	.72	1.4	1.6	1.5	3.3	8.7	e1.3	1.1	1.2	.95	.74	.60
28	.69	1.3	1.6	1.6	3.3	5.1	e1.3	1.0	1.2	.95	.75	.60
29	.71	1.3	1.6	1.6	3.3	4.8	e1.3	1.0	1.3	.89	.78	.59
30	.72	1.2	2.1	1.5	---	19	e1.3	.98	1.4	.93	.81	.59
31	.70	---	1.7	1.5	---	e16	---	.92	---	.96	.85	---
TOTAL	20.46	31.87	45.2	48.5	208.3	671.3	74.6	36.60	26.17	43.47	26.70	21.10
MEAN	.66	1.06	1.46	1.56	7.18	21.7	2.49	1.18	.87	1.40	.86	.70
MAX	.75	1.4	2.1	3.3	114	261	10	1.3	1.4	1.9	1.1	.82
MIN	.56	.73	1.2	1.4	1.6	3.0	1.3	.92	.70	.89	.74	.59
AC-FT	41	63	90	96	413	1330	148	73	52	86	53	42

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992
MEAN	.72	1.40	1.84	2.02	3.13	5.47
MAX	.88	2.98	3.22	3.60	7.18	21.7
(WY)	1988	1988	1988	1988	1992	1992
MIN	.66	.95	1.25	1.32	1.42	1.71
(WY)	1992	1990	1989	1989	1990	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1987 - 1992

ANNUAL TOTAL	491.30	1254.27	
ANNUAL MEAN	1.35	3.43	1.90
HIGHEST ANNUAL MEAN			3.43
LOWEST ANNUAL MEAN			1.14
HIGHEST DAILY MEAN	14	261	261
LOWEST DAILY MEAN	.39	.56	.14
ANNUAL SEVEN-DAY MINIMUM	.39	.57	.22
INSTANTANEOUS PEAK FLOW		340	550
INSTANTANEOUS PEAK STAGE		4.40	4.97
ANNUAL RUNOFF (AC-FT)	974	2490	1380
10 PERCENT EXCEEDS	2.1	3.5	3.1
50 PERCENT EXCEEDS	1.4	1.3	1.2
90 PERCENT EXCEEDS	.49	.70	.44

VIRGIN RIVER BASIN

69

09418700 MEADOW VALLEY WASH NEAR ROX, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1988 to current year.

WATER TEMPERATURE: June to September 1988, January 1990 to current year.

INSTRUMENTATION.--Specific conductance and water-temperature recorder since June 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction and probes coming out of the water.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 7,460 microsiemens, January 18, 1990; minimum, 358 microsiemens, March 5, 1992.
WATER TEMPERATURE: Maximum, 30.0°C, July 13, 18, 19, and 21, 1990; minimum, 3.0°C, December 23, 1990, but may have been lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 3,440 microsiemens, February 13; minimum, 358 microsiemens, March 5.
WATER TEMPERATURE: Maximum recorded, (more than 20 percent missing record), 26.5°C, June 3; minimum, 7.5°C, January 14, 22, 23, and February 14.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM DI- SOL (MG AS
OCT											
03...	1015	0.57	1290	23.5	17.0	390	83	44	130	3	10
NOV											
12...	1200	0.97	1370	27.0	6.0	--	--	--	--	--	--
JAN											
06...	1200	2.8	4190	8.0	9.5	940	160	130	630	9	11
FEB											
11...	1030	1.8	1860	16.0	15.0	--	--	--	--	--	--
MAR											
06...	1615	42	570	--	14.0	140	36	11	70	3	7
07...	1130	14	920	11.0	10.5	220	54	21	100	3	10
09...	1045	11	1280	13.0	10.0	300	70	31	160	4	11
APR											
01...	1115	11	793	21.0	16.0	--	--	--	--	--	--
02...	1050	9.1	1090	--	14.0	--	--	--	--	--	--
MAY											
11...	1300	1.2	1460	30.5	21.0	--	--	--	--	--	--
JUN											
18...	1000	0.83	1370	29.0	18.0	410	87	46	140	3	11
JUL											
27...	1030	0.98	1340	34.5	22.0	--	--	--	--	--	--
SEP											
15...	0900	0.69	1330	20.5	18.0	380	83	43	130	3	10

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SEDI- MENT, DIS- SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
03...	330	90	1.9	49	908	884	1.23	49	0.08	73
NOV										
12...	--	--	--	--	918	--	--	40	0.10	65
JAN										
06...	1500	350	1.7	23	4150	2970	5.64	79	0.61	94
FEB										
11...	--	--	--	--	1290	--	--	77	0.37	62
MAR										
06...	72	37	0.90	28	360	364	0.49	3240	380	100
07...	170	67	1.2	33	601	584	0.82	1310	48	100
09...	220	110	1.8	39	832	822	1.13	420	12	100
APR										
01...	--	--	--	--	465	--	--	1300	40	100
02...	--	--	--	--	698	--	--	--	--	--
MAY										
11...	--	--	--	--	954	--	--	97	0.31	84
JUN										
18...	320	89	1.6	40	920	889	1.25	23	0.05	28
JUL										
27...	--	--	--	--	892	--	--	6	0.02	52
SEP										
15...	330	86	1.7	51	914	878	1.24	32	0.06	50

09418700 MEADOW VALLEY WASH NEAR ROX, NV--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1290	1240	1270	---	---	---	---	---	---	---	---	---
2	1290	1200	1270	---	---	---	---	---	---	---	---	---
3	1300	1270	1280	---	---	---	---	---	---	---	---	---
4	1300	1270	1280	---	---	---	---	---	---	---	---	---
5	1290	1250	1280	---	---	---	---	---	---	---	---	---
6	1290	1260	1280	---	---	---	---	---	---	---	---	---
7	1290	1260	1270	---	---	---	---	---	---	3430	2340	2790
8	1290	1240	1270	---	---	---	---	---	---	2330	2030	2160
9	1270	1200	1260	---	---	---	---	---	---	2020	1900	1960
10	1280	1230	1260	---	---	---	---	---	---	1910	1840	1880
11	1280	1250	1270	---	---	---	---	---	---	1860	1820	1840
12	1280	1210	1260	---	---	---	---	---	---	1830	1790	1820
13	1270	1240	1250	---	---	---	---	---	---	1790	1740	1760
14	1260	1240	1260	---	---	---	---	---	---	1760	1690	1750
15	1260	1210	1250	---	---	---	---	---	---	1750	1730	1740
16	1260	1230	1240	---	---	---	---	---	---	1740	1710	1730
17	---	---	---	---	---	---	---	---	---	1750	1720	1730
18	---	---	---	---	---	---	---	---	---	1740	1720	1730
19	---	---	---	---	---	---	---	---	---	1720	1690	1710
20	---	---	---	---	---	---	---	---	---	1720	1690	1700
21	---	---	---	---	---	---	---	---	---	1710	1690	1700
22	---	---	---	---	---	---	---	---	---	1710	1640	1680
23	---	---	---	---	---	---	---	---	---	1700	1660	1690
24	---	---	---	---	---	---	---	---	---	1700	1680	1690
25	---	---	---	---	---	---	---	---	---	1700	1680	1700
26	---	---	---	---	---	---	---	---	---	1710	1680	1700
27	---	---	---	---	---	---	---	---	---	1700	1670	1690
28	---	---	---	---	---	---	---	---	---	1680	1660	1670
29	---	---	---	---	---	---	---	---	---	1690	1660	1680
30	---	---	---	---	---	---	---	---	---	1680	1660	1670
31	---	---	---	---	---	---	---	---	---	1670	1640	1660
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	1680	1650	1660	911	832	882	---	---	---	---	---	---
2	1660	1650	1660	894	853	870	---	---	---	---	---	---
3	1660	1640	1650	1690	874	1530	1290	1230	1240	---	---	---
4	1650	1630	1640	2320	377	1580	1410	1280	1360	---	---	---
5	1650	1620	1630	469	358	408	1420	1390	1410	---	---	---
6	1640	1620	1630	700	439	541	1420	1390	1400	---	---	---
7	1650	1630	1640	1200	720	988	1410	1360	1390	---	---	---
8	1650	1630	1640	1560	1150	1320	1400	1310	1380	---	---	---
9	1640	1630	1640	1490	1250	1410	1400	1350	1380	---	---	---
10	1760	1630	1650	1370	661	1120	1400	1350	1380	---	---	---
11	1890	1720	1800	1140	681	900	1450	1360	1400	---	---	---
12	1750	1600	1710	1290	991	1200	1470	1350	1420	1460	1440	1450
13	3440	1600	2760	1490	1150	1300	1440	1350	1400	1460	1360	1440
14	924	425	548	1500	1460	1480	1400	1340	1370	1450	1370	1440
15	1260	646	918	1610	1490	1530	1380	1340	1360	1450	1410	1440
16	1420	1120	1260	1610	1520	1560	1380	1330	1360	1450	1430	1440
17	1550	1370	1460	1690	1540	1610	1390	1340	1360	1440	1380	1430
18	1520	1000	1250	1550	1510	1540	1410	1340	1370	1450	1430	1440
19	983	913	946	1540	1480	1520	1400	1360	1380	1450	1440	1440
20	954	865	908	1560	1510	1540	1390	1330	1370	1440	1430	1440
21	946	857	901	1570	1500	1550	1390	1340	1360	1470	1430	1440
22	909	858	895	1520	1440	1470	1390	1340	1360	1440	1380	1430
23	930	840	890	1550	646	1250	---	---	---	1450	1400	1440
24	911	812	871	1320	416	854	---	---	---	1440	1420	1430
25	883	813	853	877	497	687	---	---	---	1430	1380	1420
26	884	805	856	1060	867	933	---	---	---	1440	1370	1420
27	877	827	857	1390	927	1200	---	---	---	1440	1370	1410
28	918	818	871	1270	1220	1230	---	---	---	1440	1410	1430
29	911	840	879	1320	1080	1260	---	---	---	1440	1410	1430
30	---	---	---	---	---	---	---	---	---	1440	1420	1440
31	---	---	---	---	---	---	---	---	---	1450	1430	1440
MONTH	3440	425	1310	---	---	---	---	---	---	---	---	---

71

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

09418700 MEADOW VALLEY WASH NEAR ROX, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	13.5	9.5	11.5	16.5	12.5	14.5	---	---	---	---	---	---
2	14.0	10.5	12.0	15.5	14.0	15.0	---	---	---	---	---	---
3	14.5	11.5	12.5	14.5	14.0	14.5	18.0	14.5	16.5	---	---	---
4	15.5	11.5	13.0	16.0	11.5	14.5	19.0	15.5	17.5	---	---	---
5	14.5	11.0	13.0	14.5	10.0	12.0	19.5	16.0	18.0	---	---	---
6	15.0	12.5	13.5	14.5	10.5	12.5	19.5	16.5	18.0	---	---	---
7	15.5	14.0	14.5	12.5	10.5	11.5	19.5	16.0	18.0	---	---	---
8	16.0	13.5	14.5	12.5	10.5	11.5	20.0	16.0	18.0	---	---	---
9	16.5	14.0	15.0	13.5	10.0	11.5	19.5	16.0	18.0	---	---	---
10	15.5	14.0	14.5	16.0	10.5	12.5	19.5	16.0	18.0	---	---	---
11	16.0	14.0	15.0	14.5	9.5	12.5	20.5	16.0	18.0	---	---	---
12	15.0	14.0	14.5	15.0	11.5	14.0	20.0	16.0	18.0	23.0	18.0	20.5
13	14.5	12.5	13.5	15.5	12.0	14.0	20.0	16.0	18.0	22.0	17.0	19.5
14	12.5	7.5	10.0	16.5	13.5	15.5	19.0	15.5	17.5	22.0	16.5	19.5
15	11.0	9.0	10.0	17.0	13.5	15.0	19.5	15.5	17.5	22.0	16.0	19.5
16	12.5	9.5	11.0	16.5	13.5	15.0	20.0	16.0	18.0	22.5	16.0	19.5
17	13.5	9.5	11.5	18.0	13.5	15.5	19.5	16.5	18.0	22.0	16.0	19.5
18	14.0	9.5	12.0	17.0	13.0	14.5	19.5	16.0	17.5	22.5	16.5	19.5
19	15.0	10.0	12.5	16.5	13.0	15.0	19.0	14.0	16.5	21.0	17.0	19.0
20	15.5	11.5	13.5	17.5	13.5	15.5	19.5	14.0	16.5	21.0	16.5	19.0
21	16.0	11.5	13.5	17.0	15.0	16.0	19.0	15.0	17.0	20.0	18.0	19.0
22	17.0	13.0	15.0	16.0	14.5	15.5	19.0	15.5	17.0	21.5	17.0	19.0
23	16.0	12.0	14.0	15.5	11.0	13.5	---	---	---	23.0	18.0	20.5
24	16.5	12.0	14.0	16.0	11.0	13.5	---	---	---	22.5	19.0	20.5
25	17.0	12.5	14.5	15.5	10.0	13.0	---	---	---	24.0	18.0	21.0
26	17.5	12.5	14.5	17.5	12.5	15.5	---	---	---	23.0	20.0	21.5
27	17.5	12.5	14.5	15.5	14.5	15.0	---	---	---	24.5	19.0	21.5
28	17.5	11.5	14.0	17.0	14.5	16.0	---	---	---	21.5	20.0	21.0
29	16.5	12.0	14.0	17.5	15.0	16.5	---	---	---	23.0	19.0	21.0
30	---	---	---	---	---	---	---	---	---	23.0	19.0	21.0
31	---	---	---	---	---	---	---	---	---	24.0	19.0	21.5
MONTH	17.5	7.5	13.3	---	---	---	---	---	---	---	---	---
JUNE			JULY			AUGUST			SEPTEMBER			
1	25.0	19.0	22.5	---	---	---	---	---	---	---	---	---
2	25.5	20.0	22.5	---	---	---	---	---	---	---	---	---
3	26.5	20.5	23.5	---	---	---	---	---	---	---	---	---
4	26.0	20.0	23.0	---	---	---	---	---	---	---	---	---
5	26.0	20.5	23.5	---	---	---	---	---	---	---	---	---
6	24.5	19.5	22.0	---	---	---	---	---	---	---	---	---
7	24.5	18.5	21.5	---	---	---	---	---	---	---	---	---
8	24.0	18.0	21.5	---	---	---	---	---	---	---	---	---
9	25.0	19.0	22.0	---	---	---	---	---	---	---	---	---
10	24.5	19.0	22.0	---	---	---	---	---	---	---	---	---
11	24.0	18.5	21.5	---	---	---	---	---	---	---	---	---
12	23.0	18.5	20.5	---	---	---	---	---	---	---	---	---
13	23.0	17.0	20.0	---	---	---	---	---	---	---	---	---
14	21.5	17.5	19.5	---	---	---	---	---	---	---	---	---
15	22.0	16.0	19.0	---	---	---	---	---	---	---	---	---
16	24.0	18.0	20.5	---	---	---	---	---	---	---	---	---
17	24.0	17.5	21.0	---	---	---	---	---	---	---	---	---
18	23.5	17.5	20.5	---	---	---	---	---	---	---	---	---
19	24.0	17.5	20.5	---	---	---	---	---	---	---	---	---
20	24.0	17.5	21.0	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

73

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.

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.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 6	0645	259	6.84	Mar. 30	2030	370	7.83
Feb. 13	2400	*849	*10.82				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1992, BY WATER YEAR (WY)

MEAN	39.0	46.9	46.9	49.1	53.0	57.2	45.0	38.9	34.4	33.6	41.9	39.6
MAX	61.0	209	58.0	98.0	140	237	100	48.0	50.6	51.5	136	78.3
(WY)	1973	1961	1961	1969	1980	1983	1969	1991	1965	1961	1981	1967
MIN	26.4	30.9	36.9	36.6	36.5	29.5	27.4	29.2	24.9	23.3	24.3	25.2
(WY)	1991	1991	1990	1990	1990	1989	1989	1989	1989	1990	1989	1989

VIRGIN RIVER BASIN

09419000 MUDDY RIVER NEAR GLENDALE, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1950 - 1992	
ANNUAL TOTAL	13306		13408			
ANNUAL MEAN	36.5		36.6		43.8	
HIGHEST ANNUAL MEAN					60.7	1961
LOWEST ANNUAL MEAN					30.8	1989
HIGHEST DAILY MEAN	428	Sep 8	215	Feb 14	2990	Nov 6 1960
LOWEST DAILY MEAN	19	Aug 23	21	Aug 15	17	Jul 25 1990
ANNUAL SEVEN-DAY MINIMUM	21	Aug 20	23	Aug 11	18	Jul 23 1990
INSTANTANEOUS PEAK FLOW			849	Feb 13	16400	Aug 10 1981
INSTANTANEOUS PEAK STAGE			10.82	Feb 13	27.10	Aug 10 1981
INSTANTANEOUS LOW FLOW			19	Aug 15	7.6	Sep 29 1964
ANNUAL RUNOFF (AC-FT)	26390		26590		31710	
10 PERCENT EXCEEDS	43		47		52	
50 PERCENT EXCEEDS	35		33		40	
90 PERCENT EXCEEDS	24		27		29	

VIRGIN RIVER BASIN

75

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV
(National Stream-Quality Accounting Network Station)

LOCATION (REVISED).--Lat 36°31'39", long 114°25'06", in NW 1/4 SW 1/4 sec.20, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010005, on right bank, in Overton State Wildlife Management Area, 0.4 mi downstream from diversion dam, and 1.9 mi southeast of Overton.

DRAINAGE AREA.--8,310 mi², approximately, of which about 4,300 mi² contributes directly to surface runoff.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1983, October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,200 ft above sea level, from topographic map. Prior to January 1979 at site 1.4 mi downstream and January 1979 to September 1991 at site 0.4 mi downstream, at different datums.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 165 ft³/s, March 31; minimum daily, 0.06 ft³/s, January 11-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	.16	.53	.20	e.07	4.2	e75	1.9	16	e1.2	e.80	22
2	e3.0	e.50	.50	.20	e.07	6.0	e50	1.9	13	e1.2	e.80	12
3	e1.0	e.30	.47	.21	e.07	7.7	e49	1.9	6.3	e1.2	e.78	9.8
4	e.75	e.28	.45	.22	e.07	7.5	45	2.4	2.6	e1.2	e.76	8.3
5	e.50	e.25	.41	.23	e.07	e7.4	42	2.2	e2.0	e1.1	e.74	6.7
6	e.21	e.23	.39	4.3	e.08	e7.2	35	2.2	e1.8	e1.1	e.73	8.4
7	e.24	e.21	.38	.69	e.08	e7.2	31	2.2	e1.7	e1.1	e.71	6.6
8	e.40	e.19	.36	.35	e.10	e9.5	29	2.1	e1.7	e1.1	e.70	6.9
9	e.40	.19	.35	e.07	.40	e35	28	2.0	2.3	e1.0	e.68	9.2
10	e.40	.22	.35	e.07	2.1	e55	29	2.0	1.9	e1.0	e.66	7.4
11	e.15	.26	.34	e.06	4.4	e62	31	1.9	3.2	e1.0	e.64	7.6
12	e.15	.27	.32	e.06	5.0	e55	29	1.9	2.0	e1.0	e.64	9.0
13	e.14	.27	.31	e.06	17	e52	e20	2.9	1.9	e1.0	e.64	7.2
14	.21	.30	.29	e.06	11	e50	e16	2.2	2.1	3.0	e.64	6.4
15	.35	1.2	.29	e.07	9.9	e50	e11	2.2	2.0	5.0	e.64	6.4
16	e.20	4.3	.27	e.07	4.8	e50	e8.0	2.1	2.0	4.1	e.63	6.4
17	e.15	6.1	.23	e.07	4.1	e48	e6.0	2.1	2.6	3.1	e.62	6.2
18	e.16	3.8	.20	e.07	3.0	e50	e5.0	2.0	2.1	e1.7	e.60	9.0
19	e.16	2.0	.20	e.07	1.9	e50	e4.0	1.9	1.9	e1.2	e.58	8.8
20	e.15	2.2	.19	e.07	1.6	e48	e3.0	2.3	e1.3	e1.0	e.55	13
21	e.15	2.2	.19	e.07	1.5	e47	e2.5	3.3	e1.2	e.95	e.54	7.5
22	e.16	2.1	.19	e.07	1.4	e40	e2.2	2.3	e1.2	e.90	e.50	5.8
23	e.15	2.1	.20	e.07	1.4	e35	e1.9	2.2	e1.3	e.88	e.48	5.4
24	e.13	2.0	.20	e.07	1.4	e37	1.8	2.2	2.0	e.88	e.43	5.4
25	e.15	1.9	.20	e.07	1.4	e54	1.8	2.7	2.6	e.87	e.80	5.3
26	e.13	1.5	.20	e.07	3.0	e50	1.7	2.6	2.0	e.86	2.5	5.2
27	e.13	.92	.20	e.07	4.2	e54	1.9	4.0	e1.4	e.85	2.2	5.2
28	e.12	.81	.20	e.07	4.3	e75	1.9	3.3	e1.3	e.84	3.0	5.0
29	e.11	.76	.20	e.07	4.2	e85	2.0	3.6	e1.3	e.83	2.0	4.9
30	e.10	.66	.22	e.07	---	e140	2.0	5.3	e1.3	e.83	6.8	6.2
31	.12	---	.21	e.07	---	e165	---	15	---	e.81	25	---
TOTAL	14.27	38.18	9.04	7.97	88.61	1443.7	565.7	88.8	86.0	42.80	57.79	233.2
MEAN	.46	1.27	.29	.26	3.06	46.6	18.9	2.86	2.87	1.38	1.86	7.77
MAX	4.1	6.1	.53	4.3	17	165	75	15	16	5.0	25	22
MIN	.10	.16	.19	.06	.07	4.2	1.7	1.9	1.2	.81	.43	4.9
AC-FT	28	76	18	16	176	2860	1120	176	171	85	115	463

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1992, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	6.43	7.62	4.47	5.60	13.1	20.9	8.69	4.43	3.43	4.56	18.7	8.99		
MAX	20.6	23.9	9.17	13.3	58.7	89.6	18.9	10.4	11.4	14.7	142	35.5		
(WY)	1985	1988	1985	1988	1980	1983	1992	1985	1990	1990	1990	1990		
MIN	.46	1.27	.29	.26	.76	1.32	1.34	1.77	.67	1.12	1.19	2.77		
(WY)	1992	1992	1992	1992	1990	1990	1990	1986	1979	1982	1986	1989		

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1979 - 1992

ANNUAL TOTAL	1545.50	2676.06	
ANNUAL MEAN	4.23	7.31	8.91
HIGHEST ANNUAL MEAN			18.9
LOWEST ANNUAL MEAN			3.56
HIGHEST DAILY MEAN	188	165	2670
LOWEST DAILY MEAN	.10	.06	.06
ANNUAL SEVEN-DAY MINIMUM	.12	.06	.06
INSTANTANEOUS PEAK FLOW			5110
INSTANTANEOUS PEAK STAGE			16.54
ANNUAL RUNOFF (AC-FT)	3070	5310	6450
10 PERCENT EXCEEDS	12	23	15
50 PERCENT EXCEEDS	1.7	1.5	3.8
90 PERCENT EXCEEDS	.21	.13	.90

VIRGIN RIVER BASIN

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-1974 and 1979 to current year (published as Muddy River below Overton, station 09419510, October 1969 to January 1974).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 29...	1020	EO.10	3110	7.8	11.0	12.0	17	12.0	118	K150	310
DEC 17...	1115	0.19	4200	8.2	17.0	13.0	4.3	11.2	112	K41	150
FEB 20...	1100	1.6	2810	8.1	20.0	15.0	120	--	--	K89	180
APR 23...	1030	2.0	3020	8.1	26.0	19.0	16	10.6	120	220	--
AUG 25...	0915	0.42	2820	8.3	28.5	28.0	25	8.8	118	320	770

DATE	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER DIS-IT FIELD (MG/L AS HCO3)	ALKALINITY WAT DIS-TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	FLUORIDE, DIS-SOLVED (MG/L AS F)
OCT 29...	1100	210	130	390	5	26	526	431	980	200	2.3
DEC 17...	1500	270	190	530	6	32	437	358	1500	360	2.0
FEB 20...	870	180	100	320	5	28	439	360	870	210	2.5
APR 23...	880	170	110	340	5	29	488	400	930	260	3.3
AUG 25...	910	180	110	330	5	29	421	345	970	230	2.8

DATE	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 29...	43	2420	2250	3.29	<0.010	0.010	--	0.220	0.040	0.050
DEC 17...	49	3300	3150	4.49	0.010	<0.010	0.056	<0.050	0.120	0.110
FEB 20...	41	2080	1970	2.83	0.020	0.020	0.380	0.390	0.130	0.130
APR 23...	39	2240	2120	3.05	0.020	0.020	0.280	0.300	0.060	0.040
AUG 25...	43	2030	2110	2.76	0.010	<0.010	0.058	<0.050	0.020	0.010

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)	PHOSPHORUS ORTHO TOTAL (MG/L AS P)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM, DIS-SOLVED (UG/L AS LI)
OCT 29...	0.60	0.120	0.050	0.070	0.060	10	<100	<1	20	480
DEC 17...	0.50	0.090	0.050	0.090	0.070	--	--	--	--	--
FEB 20...	0.50	0.200	0.070	0.060	0.070	<10	200	<1	<10	400
APR 23...	0.30	0.100	0.100	0.090	0.090	--	--	--	--	--
AUG 25...	0.30	0.080	0.020	0.050	0.030	10	<100	<1	<10	410

VIRGIN RIVER BASIN

77

09419515 MUDDY RIVER ABOVE LAKE MEAD NEAR OVERTON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
OCT 29...	300	17	<1	<1	<1.0	3600	10	47	0.01	38
DEC 17...	--	--	--	--	--	--	--	29	0.02	45
FEB 20...	480	17	<1	1	<1.0	3800	15	1980	8.3	16
APR 23...	--	--	--	--	--	--	--	189	1.0	52
AUG 25...	30	23	<1	2	<1.0	4000	12	194	0.22	75

E: ESTIMATED

K: NON-IDEAL COLONY COUNT

VIRGIN RIVER BASIN

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 sea level, from topographic map.

REMARKS.--Records fair. Minor temporary regulation for recreation upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.0 ft³/s, April 14, gage height, 2.24 ft; minimum daily, 0.90 ft³/s, August 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.7	1.6	1.4	1.3	1.2	1.6	1.5	1.4	1.5	1.4	1.4
2	1.6	1.6	1.6	1.4	1.3	1.2	1.6	1.4	1.5	1.5	1.4	1.4
3	1.6	1.6	1.6	1.4	1.3	1.2	1.6	1.4	1.5	1.5	1.4	1.4
4	1.7	1.6	1.6	1.4	1.3	1.3	1.6	1.3	1.5	1.5	1.4	1.4
5	1.7	1.6	1.6	1.4	1.3	1.3	1.7	1.3	1.5	1.5	1.4	1.4
6	1.7	1.7	1.6	1.4	1.3	1.3	1.7	1.3	1.5	1.4	1.4	1.4
7	1.7	1.7	1.6	1.4	1.3	1.3	1.7	1.3	1.5	1.4	1.4	1.4
8	1.7	1.6	1.6	1.4	1.2	1.3	1.7	1.3	1.5	1.4	1.4	1.4
9	1.7	1.7	1.5	1.4	1.2	1.3	1.7	1.4	1.5	1.4	1.4	1.4
10	1.7	1.6	1.5	1.4	1.2	1.3	1.7	1.3	1.5	1.4	1.4	1.4
11	1.7	1.6	1.5	1.4	1.2	1.3	1.7	1.3	1.5	1.4	1.4	1.4
12	1.7	1.6	1.5	1.4	1.2	1.3	1.7	1.3	1.4	1.4	1.4	1.6
13	1.7	1.7	1.5	1.4	1.3	1.3	1.7	1.3	1.5	1.4	1.4	1.6
14	1.7	1.7	1.5	1.4	1.3	1.4	1.8	1.3	1.5	1.4	1.4	1.6
15	1.7	1.7	1.5	1.3	1.2	1.4	1.8	1.4	1.5	1.4	1.4	1.6
16	1.7	1.7	1.5	1.3	1.2	1.4	1.8	1.4	1.5	1.4	1.4	1.6
17	1.7	1.7	1.5	1.3	1.2	1.4	1.8	1.4	1.5	1.4	1.4	1.6
18	1.7	1.7	1.5	1.3	1.2	1.4	1.8	1.4	1.4	1.3	1.4	1.6
19	1.7	1.6	1.5	1.3	1.2	1.4	1.7	1.4	1.5	1.3	1.3	1.6
20	1.7	1.6	1.5	1.3	1.2	1.4	1.8	1.4	1.5	1.3	1.3	1.6
21	1.7	1.6	1.5	1.3	1.2	1.4	1.8	1.4	1.4	1.3	1.3	1.6
22	1.7	1.6	1.4	1.3	1.2	1.4	1.8	1.4	1.4	1.3	1.3	1.6
23	1.7	1.6	1.4	1.3	1.2	1.5	1.8	1.4	1.4	1.3	1.3	1.6
24	1.7	1.6	1.4	1.3	1.2	1.4	1.8	1.4	1.4	1.3	1.1	1.6
25	1.7	1.6	1.4	1.3	1.2	1.6	1.8	1.4	1.4	1.3	.90	1.6
26	1.7	1.6	1.4	1.3	1.2	1.6	1.7	1.4	1.4	1.4	1.1	1.6
27	1.7	1.6	1.4	1.3	1.2	1.6	1.6	1.4	1.4	1.3	1.4	1.6
28	1.7	1.6	1.4	1.3	1.2	1.6	1.6	1.4	1.4	1.3	1.4	1.7
29	1.7	1.6	1.4	1.3	1.2	1.6	1.5	1.4	1.5	1.3	1.4	1.7
30	1.7	1.6	1.5	1.3	---	1.6	1.5	1.5	1.5	1.4	1.4	1.7
31	1.6	---	1.4	1.3	---	1.6	---	1.4	---	1.4	1.4	---
TOTAL	52.3	49.0	46.4	41.7	35.7	43.3	51.1	42.6	43.9	42.8	41.80	46.1
MEAN	1.69	1.63	1.50	1.35	1.23	1.40	1.70	1.37	1.46	1.38	1.35	1.54
MAX	1.7	1.7	1.6	1.4	1.3	1.6	1.8	1.5	1.5	1.5	1.4	1.7
MIN	1.6	1.6	1.4	1.3	1.2	1.2	1.5	1.3	1.4	1.3	.90	1.4
AC-FT	104	97	92	83	71	86	101	84	87	85	83	91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	1.68	1.67	1.61	1.56	1.54	1.48	1.51	1.53	1.61	1.61	1.60	1.60
MAX	1.76	1.92	1.79	1.78	1.83	1.76	1.70	1.74	1.74	1.76	1.73	1.67
(WY)	1990	1991	1991	1989	1989	1991	1992	1988	1988	1988	1987	1987
MIN	1.60	1.55	1.44	1.27	1.23	1.25	1.22	1.37	1.46	1.38	1.35	1.46
(WY)	1987	1986	1986	1986	1992	1987	1987	1992	1992	1992	1992	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	594.6	536.70	
ANNUAL MEAN	1.63	1.47	1.58
HIGHEST ANNUAL MEAN			1.70
LOWEST ANNUAL MEAN			1.47
HIGHEST DAILY MEAN	1.8 Feb 21	1.8 Apr 14	2.8 Aug 16 1990
LOWEST DAILY MEAN	1.4 Aug 14	.90 Aug 25	.90 Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	1.4 Dec 22	1.2 Aug 20	1.1 Feb 25 1986
INSTANTANEOUS PEAK FLOW		3.0 Apr 14	26 Aug 16 1990
INSTANTANEOUS PEAK STAGE		2.24 Apr 14	unknown
ANNUAL RUNOFF (AC-FT)	1180	1060	1150
10 PERCENT EXCEEDS	1.7	1.7	1.8
50 PERCENT EXCEEDS	1.6	1.4	1.6
90 PERCENT EXCEEDS	1.5	1.3	1.4

LAS VEGAS VALLEY

79

09419610 LEE CANYON NEAR CHARLESTON PARK, NV

LOCATION.--Lat 36°20'25", long 115°39'00", in SW 1/4 NE 1/4 sec.35, T.18 S., R.56 E., Clark County, Hydrologic Unit 15010015, in Toiyabe National Forest, on right bank, 5.0 ft above bridge on State Highway 158, just south of junction with State Highway 156, and 5.5 mi north of Charleston Park.

DRAINAGE AREA.--9.20 mi².

PERIOD OF RECORD.--Water years 1961-63 (annual maximum), October 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,820 ft above sea level, from topographic map. October 1, 1960, to September 30, 1963, crest-stage gage at same site and datum. October 1963 to May 16, 1973, on right bank, at datum 0.14 ft higher. May 17, 1963 to August 5, 1992 on right bank, 45 ft upstream at datum 3.0 ft lower.

REMARKS.--Records poor. No flow exists in this channel except at times of heavy rainfall or rapid snowmelt.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft³/s, August 11, gage height, unknown; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e10	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.32	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	20	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1992, BY WATER YEAR (WY)

	MEAN	.000	.003	.073	.000	.000	.000	.000	.000	.000	.083	.035	.026
MAX	.000	.10	2.13	.000	.003	.010	.003	.000	.000	.97	.32	.33	
(WY)	1964	1966	1967	1964	1986	1967	1977	1964	1964	1967	1992	1967	1967
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1965	1964	1964

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	2.20	10.00		
ANNUAL MEAN	.006	.027	.019	
HIGHEST ANNUAL MEAN			.31	1967
LOWEST ANNUAL MEAN			.000	1972
HIGHEST DAILY MEAN	.80	Sep 5	60	Dec 6 1966
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW			240	Aug 11 1992
INSTANTANEOUS PEAK STAGE			unknown	Aug 11 1992
ANNUAL RUNOFF (AC-FT)	4.4	20	14	
10 PERCENT EXCEEDS	.00	.00	.00	
50 PERCENT EXCEEDS	.00	.00	.00	
90 PERCENT EXCEEDS	.00	.00	.00	

LAS VEGAS VALLEY

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, located 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,790 ft above sea level, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.33 ft³/s, July 24, gage height, 1.00 ft; maximum gage height, 1.31 ft, November 3, 4, backwater from debris on weir; minimum daily, 0.27 ft³/s, October 1, 2, 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.31	.31	.31	.30	.30	.31	.30	.30	.30	.30	.30
2	.27	.31	.31	.31	.30	.30	.31	.30	.30	.30	.30	.30
3	.28	e.30	.31	.31	.30	.30	.31	.30	.30	.30	.30	.30
4	.28	e.30	.31	.31	.30	.30	.31	.30	.30	.30	.31	.30
5	.28	.30	.31	.31	.30	.30	.31	.30	.30	.30	.31	.30
6	.27	.30	.31	.31	.30	.30	.31	.30	.30	.30	.32	.30
7	.27	.30	.31	.31	.30	.30	.31	.30	.30	.30	.32	.30
8	.27	.31	.31	.31	.30	.30	.30	.30	.30	.30	.31	e.30
9	.28	.32	.31	.31	.30	.30	.30	.30	.30	.30	.30	e.30
10	.29	e.32	.31	.31	.30	.30	.30	.30	.30	.30	.30	e.30
11	.30	e.31	.31	.30	.30	.30	.30	.30	.30	.30	e.30	e.30
12	.30	e.31	.31	.30	.30	.30	.30	.30	.30	.30	e.30	e.30
13	.30	e.31	.31	.30	.30	.30	.30	.30	.30	.30	e.31	e.30
14	.30	e.31	.31	.30	.31	.30	.30	.29	.30	.30	e.31	.30
15	.30	e.31	.31	.30	e.30	.30	.30	.29	.30	.30	.30	.30
16	.30	e.31	.31	.30	e.30	.30	.30	.29	.30	.30	.30	.30
17	.30	e.31	.31	.30	e.30	.30	.30	.29	.30	.30	.31	.30
18	.30	e.31	.31	.30	e.30	.30	.30	.29	.30	.30	.32	.30
19	.30	e.31	.31	.30	.30	.30	.31	.29	.30	.30	.33	.30
20	.30	.31	.31	.30	.30	.31	.30	.30	.30	.30	.30	.30
21	.30	.31	.31	.30	.30	.31	.30	.30	.30	.31	.30	.30
22	.30	.30	.31	.30	.30	.31	.30	.30	.30	.31	.30	.30
23	.30	.30	.31	.30	.30	.31	.30	.30	.30	.31	.30	.30
24	.30	.30	.31	.31	.30	.31	.30	.30	.30	.32	.30	.30
25	.30	.30	.31	.31	.30	.31	.30	.30	.30	.30	.30	.30
26	.30	.30	.31	.31	.30	.31	.30	.30	.30	.30	.30	.30
27	.30	.30	.31	.31	.30	.31	.29	.30	.30	.30	.30	.30
28	.30	.30	.31	.31	.30	.31	.30	.30	.30	.30	.30	.30
29	.30	.30	.31	.31	.30	.31	.30	.30	.30	.30	.30	.30
30	.31	.30	.31	.31	---	.31	.30	.30	.30	.30	.30	.31
31	.31	---	.31	.31	---	.31	---	.30	---	.30	.30	---
TOTAL	9.08	9.18	9.61	9.48	8.71	9.42	9.07	9.24	9.00	9.35	9.45	9.01
MEAN	.29	.31	.31	.31	.30	.30	.30	.30	.30	.30	.30	.30
MAX	.31	.32	.31	.31	.31	.31	.31	.30	.30	.32	.33	.31
MIN	.27	.30	.31	.30	.30	.30	.29	.29	.30	.30	.30	.30
AC-FT	18	18	19	19	17	19	18	18	18	19	19	18

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	.27	.27	.28	.27	.27	.27	.27	.27	.27	.26	.27	.27
MAX	.29	.31	.31	.31	.30	.30	.30	.30	.30	.30	.30	.30
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	.25	.25	.25	.25	.25	.25	.25	.24	.25	.24	.25	.25
(WY)	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	101.48	110.60	
ANNUAL MEAN	.28	.30	.27
HIGHEST ANNUAL MEAN			.30
LOWEST ANNUAL MEAN			.25
HIGHEST DAILY MEAN	.32 Nov 9	.33 Aug 19	.33 Aug 19 1992
LOWEST DAILY MEAN	.25 Jul 2	.27 Oct 1	.24 Jul 14 1985
ANNUAL SEVEN-DAY MINIMUM	.25 Jul 1	.27 Oct 1	.24 May 17 1987
INSTANTANEOUS PEAK FLOW		.33 Jul 24	.33 Jul 24 1992
INSTANTANEOUS PEAK STAGE		1.31 Nov 3	1.44 Apr 2 1989
ANNUAL RUNOFF (AC-FT)	201	219	195
10 PERCENT EXCEEDS	.31	.31	.30
50 PERCENT EXCEEDS	.27	.30	.27
90 PERCENT EXCEEDS	.27	.30	.25

LAS VEGAS VALLEY

81

09419648 LAS VEGAS WASH ABOVE DETENTION BASIN NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°18'09", long 115°08'18", in SE 1/4 NW 1/4 sec.15, T.19 S., R.61 E., Clark County, Hydrologic Unit 15010015, on left bank, 0.5 mi upstream of North Las Vegas Detention Basin Dam, 5.2 mi north of Craig Road, and 4.5 mi northwest of North Las Vegas.

DRAINAGE AREA--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,140 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s, March 30, gage height, 5.37 ft; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00
2	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00
3	e.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
4	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00
16	.00	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00
30	.00	.00	.00	.00	---	2.6	.00	.00	.00	e.00	.00	.00
31	.00	---	.00	.00	---	2.1	---	.00	---	e.00	.00	---
TOTAL	0.00	0.06	0.00	0.01	0.00	7.11	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.002	.000	.000	.000	.23	.000	.000	.000	.000	.000	.000
MAX	.00	.06	.00	.01	.00	2.6	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.1	.00	.02	.00	14	.00	.00	.00	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

MEAN	.000	.000	.000	.000	.000	.057	.000	.000	.000	.057	.050	.000
MAX	.000	.002	.000	.000	.000	.23	.000	.000	.000	.13	.22	.002
(WY)	1989	1992	1989	1992	1989	1992	1989	1989	1989	1990	1989	1990
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1989	1989	1989	1989	1989	1989	1989	1991	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	3.08		7.18			
ANNUAL MEAN	.008		.020			
HIGHEST ANNUAL MEAN					.014	
LOWEST ANNUAL MEAN					.020	
HIGHEST DAILY MEAN	2.0	Jul 8	2.6	Mar 30	6.2	Aug 11 1989
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jul 21 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jul 21 1988
INSTANTANEOUS PEAK FLOW			14	Mar 30	278	Jul 15 1990
INSTANTANEOUS PEAK STAGE			5.37	Mar 30	6.98	Jul 15 1990
ANNUAL RUNOFF (AC-FT)	6.1		14		10	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

LAS VEGAS VALLEY

09419648 LAS VEGAS WASH ABOVE DETENTION BASIN NEAR NORTH LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1989 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1989 to current year.

WATER TEMPERATURE: September 1989 to current year.

INSTRUMENTATION.--Specific-conductance and water temperature recorder since September 1989, two times per hour.

REMARKS.--Records represent water temperature at probe within 0.5°C. Stream is normally dry; values for specific conductance and water temperature generally are recorded after thunderstorms. Published values for specific conductance and water temperature in 1992 water year are based on data for periods shorter than an entire day.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 microsiemens, November 16, 1991; minimum recorded, 101 microsiemens, January 6, 1991.

WATER TEMPERATURE: Maximum recorded, 27.5°C, August 15, 1990; minimum recorded, 6.5°C, January 6, 1991.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 285 microsiemens, November 16; minimum recorded, 101 microsiemens, January 6.

WATER TEMPERATURE: Maximum recorded, 22.0°C, November 16; minimum recorded, 6.5°C, January 6.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MAR										
08...	1030	2.3	140	9.0	63	17	5.1	3.9	0.2	2.8
30...	1840	8.3	103	12.5	53	14	4.5	1.7	0.1	1.9

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR										
08...	7.5	2.3	0.10	3.3	66	83	0.09	597	3.6	100
30...	5.6	1.3	<0.10	3.1	66	68	0.09	1620	36	100

WATER QUALITY DATA FOR EPHEMERAL PERIODS OF FLOW

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C.)				WATER TEMPERATURE (DEGREES CELSIUS)		
DATE	MAX	MIN	MEAN	MAX	MIN	MEAN
NOV						
16...	285	277	281	22.0	16.5	20.0
JAN						
06...	138	101	215	7.0	6.5	6.5
MAR						
08...	174	113	154	9.5	7.5	8.0
27...	162	151	157	15.0	13.5	14.5
30...	158	126	148	13.0	11.5	11.0
31...	160	154	156	11.5	11.0	11.5

LAS VEGAS VALLEY

83

09419656 LAS VEGAS CREEK AT LAMB BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°10'53", long 115°04'46", in SE 1/4 NE 1/4 sec.30, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on downstream side of box culvert at Lamb Blvd.

DRAINAGE AREA.--46.3 mi².

PERIOD OF RECORD.--March 1988 to July 1992 (discontinued).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with .04 inch increment. Elevation of gage is 1,780 ft above sea level, from topographic map.

REMARKS.--Records fair. Maximum daily precipitation for period of record, 1.96 in., March 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1991 to July 1992, 620 ft³/s, March 29, gage height 13.74 ft; no flow many days. Maximum daily precipitation, 1.96 in., March 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.00	.79	.00	1.0	.82	1.7	.53	.34	.09	---	---
2	.08	.00	.36	.00	3.0	40	1.3	.90	.88	.09	---	---
3	.07	.00	.13	.00	1.2	1.2	1.2	.65	.26	.09	---	---
4	.04	.00	.40	.01	.49	.73	1.0	.63	.21	.07	---	---
5	.00	.00	.46	45	.31	.69	1.1	.70	.22	.06	---	---
6	.00	.00	.00	17	.33	.66	.93	.67	.19	.05	---	---
7	.06	.00	.00	.33	47	.44	.94	.64	.20	.05	---	---
8	e.03	.01	.00	.31	.98	108	.97	4.4	.20	.17	---	---
9	e.01	.00	.00	.31	.59	2.7	.97	1.3	.31	.13	---	---
10	e.00	.00	.07	.44	.75	.89	.93	.56	.17	.11	---	---
11	e.00	.00	2.7	.39	.61	.85	.85	.49	.17	.10	---	---
12	e.00	.00	.76	.52	90	.82	.89	.53	.16	.09	---	---
13	e.00	.00	.33	.39	48	.85	.85	.47	.17	.11	---	---
14	e.00	9.3	.14	.31	2.5	.79	.81	.46	.17	.18	---	---
15	e.00	22	.00	.30	11	.79	.79	.58	.18	.09	---	---
16	e.00	.09	.00	.27	3.2	.78	.77	.44	.16	---	---	---
17	e.00	.00	.00	.26	1.0	.77	.75	.43	.18	---	---	---
18	.00	.00	.43	.26	.95	.76	.71	.44	.15	---	---	---
19	.00	.00	.58	.28	1.1	.76	.63	.40	.15	---	---	---
20	.00	.00	.00	.28	1.1	.77	.65	.44	.14	---	---	---
21	.00	.00	.00	.28	.71	1.2	1.0	.42	.14	---	---	---
22	.00	.00	.00	.30	.65	9.1	.72	.40	.15	---	---	---
23	.00	.00	.00	.26	.68	8.0	.73	.39	.14	---	---	---
24	.00	.04	.00	.33	.64	.78	.72	.42	.12	---	---	---
25	.00	.03	.00	.34	.66	.70	.73	.41	.11	---	---	---
26	.00	.10	.00	.27	1.1	.70	.70	2.5	.09	---	---	---
27	.00	.31	.00	.30	1.2	197	.63	14	.10	---	---	---
28	.00	.00	.00	.28	1.1	9.1	.64	3.5	.10	---	---	---
29	.00	.00	.00	.27	.75	57	.72	1.2	.09	---	---	---
30	.01	.29	11	.28	---	55	.56	.49	.09	---	---	---
31	.00	---	.00	.26	---	50	---	.50	---	---	---	---
TOTAL	0.33	32.17	18.15	69.83	222.60	596.21	25.89	39.89	5.74	---	---	---
MEAN	.011	1.07	.59	2.25	7.68	19.2	.86	1.29	.19	---	---	---
MAX	.08	22	11	45	90	197	1.7	14	.88	---	---	---
MIN	.00	.00	.00	.00	.31	.66	.56	.39	.09	---	---	---
AC-FT	.7	64	36	139	442	1180	51	79	11	---	---	---
†	.07	.64	.40	.88	1.80	5.44	.00	.12	.00	---	---	---

e Estimated

† Precipitation total, in inches

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1988	1989	1990	1991	1992
MEAN	.51	1.28	.83	2.69	2.90	4.79	.86	1.15	.83	.84
MAX	1.46	3.46	1.26	5.03	7.68	19.2	3.04	4.16	3.35	1.80
(WY)	1991	1991	1989	1990	1992	1988	1989	1990	1990	1990
MIN	.000	.000	.57	.000	.61	.000	.000	.006	.14	.000
(WY)	1989	1989	1991	1991	1990	1988	1989	1988	1989	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	377.71	
ANNUAL MEAN	1.03	1.25
HIGHEST ANNUAL MEAN		1.35
LOWEST ANNUAL MEAN		1.11
HIGHEST DAILY MEAN	90	197
LOWEST DAILY MEAN	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00
INSTANTANEOUS PEAK FLOW		620
INSTANTANEOUS PEAK STAGE		13.74
ANNUAL RUNOFF (AC-FT)	749	908
10 PERCENT EXCEEDS	.11	1.7
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

LAS VEGAS VALLEY

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, .5 mi east of Nellis Boulevard on Sahara Avenue where Sahara deadends at the Desert Rose Golf Course. Gage is located on right bank and secured to the north (upstream) side of a wood and concrete footbridge.

DRAINAGE AREA.--1,146 mi².

PERIOD OF RECORD.--March 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with .04 inch increment. Elevation of gage is 1,715 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those below 10.0 ft³/s, which are poor. Maximum daily precipitation for period of record, 1.56 in., June 10, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 957 ft³/s, March 30, gage height, 15.24 ft, from rating curve extended above 380 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 0.28 ft³/s, September 3. Maximum daily precipitation, 1.00 in., March 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.3	7.2	2.7	4.9	2.8	2.6	2.4	.72	1.8	.57	.67
2	1.5	2.3	5.1	2.7	8.9	85	1.1	3.2	3.9	1.9	.58	.69
3	1.5	2.8	1.9	2.9	4.9	23	.77	3.6	1.5	2.0	.59	.28
4	2.0	2.9	2.8	3.1	2.8	2.5	.86	3.9	1.3	2.2	.59	.33
5	1.2	3.2	5.2	73	2.2	1.5	.75	4.0	1.3	1.9	.68	.63
6	1.3	3.5	1.2	63	2.5	1.4	.77	3.9	1.4	1.5	.80	.88
7	1.6	4.0	1.1	e3.1	81	70	.86	3.7	1.4	1.2	.71	.83
8	3.3	4.2	1.2	e2.0	9.3	259	.72	4.4	1.6	1.2	.77	1.2
9	7.9	4.3	1.2	e2.0	.72	28	.71	6.7	1.6	1.1	.88	1.3
10	1.2	4.5	1.4	e2.0	4.3	2.9	.72	1.2	1.8	1.1	.93	1.5
11	1.3	4.6	18	2.0	1.2	2.3	.73	1.3	1.6	.86	.93	1.2
12	1.5	4.6	7.3	1.8	120	1.7	.73	1.2	1.6	.78	1.0	1.4
13	1.5	4.8	4.9	1.7	134	1.8	.82	1.3	1.5	.84	1.2	1.5
14	1.8	22	1.9	1.6	3.8	1.9	.72	1.4	1.6	.77	1.1	1.2
15	2.1	75	2.0	1.6	21	1.9	.72	1.5	1.7	.74	1.1	1.4
16	1.9	9.7	1.5	1.6	10	1.9	.82	1.5	1.6	.73	1.2	1.5
17	1.8	3.2	1.6	1.5	3.7	1.9	.89	1.5	1.3	.60	1.0	1.4
18	2.0	3.2	3.3	1.6	2.1	1.9	.97	1.6	.59	.57	.88	1.2
19	2.6	2.5	7.3	1.7	2.7	1.8	1.0	1.5	2.1	.56	.95	.88
20	2.4	1.9	1.7	2.0	4.0	2.1	1.0	1.3	1.2	.66	.93	1.2
21	2.0	1.6	1.9	2.1	1.4	3.8	1.5	1.2	1.3	.66	.88	.79
22	1.3	1.5	1.9	2.3	1.5	19	1.5	1.2	1.4	.59	.91	.75
23	1.3	1.3	2.1	2.7	1.6	41	1.2	1.1	1.5	.56	.81	.74
24	1.6	1.2	2.4	3.1	1.7	1.9	1.1	1.0	1.7	.55	.79	.83
25	2.4	1.3	2.6	3.6	1.7	.98	1.4	1.2	1.8	.55	.72	.67
26	3.5	1.5	2.8	3.9	3.0	.94	1.3	1.1	1.8	.57	.64	.62
27	2.8	5.6	3.0	4.3	5.2	331	1.3	34	2.1	.58	.63	.80
28	2.6	1.4	3.4	4.5	5.4	20	1.5	1.4	2.0	.60	.63	.65
29	2.8	1.2	3.7	4.8	2.3	74	1.6	7.6	2.5	.63	.57	.83
30	4.3	1.9	38	4.8	---	215	1.9	.57	2.8	.59	5.5	.88
31	2.3	---	3.0	4.8	---	162	---	.98	---	.55	1.7	---
TOTAL	68.9	184.0	142.6	214.5	447.82	1364.92	32.56	102.45	50.21	29.44	31.17	28.75
MEAN	2.22	6.13	4.60	6.92	15.4	44.0	1.09	3.30	1.67	.95	1.01	.96
MAX	7.9	75	38	73	134	331	2.6	34	3.9	2.2	5.5	1.5
MIN	1.2	1.2	1.1	1.5	.72	.94	.71	.57	.59	.55	.57	.28
AC-FT	137	365	283	425	888	2710	65	203	100	58	62	57
†	.00	.63	.20	.76	1.48	4.04	.00	.08	.00	.00	.00	.00

e Estimated

† Precipitation total, in inches

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	1.45	2.43	1.73	4.44	5.55
MAX	2.22	6.13	4.60	7.29	15.4
(WY)	1992	1992	1992	1990	1992
MIN	.73	.92	.34	.000	.83
(WY)	1990	1991	1991	1991	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	1306.57	2697.32		
ANNUAL MEAN	3.58	7.37		
HIGHEST ANNUAL MEAN			3.78	
LOWEST ANNUAL MEAN			7.37	1992
HIGHEST DAILY MEAN	163	Mar 27	2.19	1989
LOWEST DAILY MEAN	.00	Jan 1	351	Jun 10 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.28	Dec 21 1990
INSTANTANEOUS PEAK FLOW			.57	Jul 22 1990
INSTANTANEOUS PEAK STAGE			957	Mar 30 1990
ANNUAL RUNOFF (AC-FT)	2590		15.24	Mar 30 1990
10 PERCENT EXCEEDS	3.5		5350	
50 PERCENT EXCEEDS	.99		5.3	
90 PERCENT EXCEEDS	.00		1.6	
			.72	

LAS VEGAS VALLEY

85

09419665 SLOAN CHANNEL AT CHARLESTON BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°09'36", long 115°02'39", 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 that crosses under Charleston Boulevard, 1.0 mi east of Nellis Boulevard.

DRAINAGE AREA.--144 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with .04 inch increment. Elevation of gage is 1,730 ft above sea level, from topographic map.

REMARKS.--Records poor. Flows below 50 ft³/s not recorded by gage. No flow most days most years. Maximum daily precipitation for period of record, 1.12 in., February 12, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 300 ft³/s, January 5, gage height 11.13 ft; no flow most days. Maximum daily precipitation, 1.12 in., February 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
4	.00	.00	.00	e.00	.00	.00	e.00	.00	.00	.00	.00	.00
5	.00	.00	.00	e29	.00	.00	e.00	.00	.00	.00	.00	.00
6	.00	.00	.00	e32	.00	.00	e.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	1.7	e.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	20	e.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	33	.00	e.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	14	.00	e.00	.00	.00	.00	.00	.00
14	.00	3.6	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
15	.00	31	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	12	e.00	2.1	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	36	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	15	---	.00	---	.00	.00	---
TOTAL	0.00	34.60	0.00	61.00	47.00	84.70	0.00	2.10	0.00	0.00	0.00	0.00
MEAN	.000	1.15	.000	1.97	1.62	2.73	.000	.068	.000	.000	.000	.000
MAX	.00	31	.00	32	33	36	.00	2.1	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	69	.00	121	93	168	.00	4.2	.00	.00	.00	.00
†	.17	.72	.24	1.00	1.84	4.12	.04	.12	.00	.00	.12	.00

e Estimated

† Precipitation total, in inches.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	MEAN	.000	.29	.000	.51	.49	.59	.000	.058	.38	.24	.13	.000
MAX	.000	1.15	.000	1.97	1.62	2.73	.000	.22	1.43	1.19	.59	.000	.000
(WY)	1989	1992	1989	1992	1992	1992	1988	1989	1990	1990	1989	1988	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1990	1989	1988	1988	1988	1988	1988	1990	1988	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	63.90		229.40			
ANNUAL MEAN	.18		.63			
HIGHEST ANNUAL MEAN					.25	
LOWEST ANNUAL MEAN					.63	
HIGHEST DAILY MEAN	31	Nov 15	36	Mar 30	43	Jun 10 1990
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Mar 1 1988
INSTANTANEOUS PEAK FLOW			300	Jan 5	680	Jul 16 1990
INSTANTANEOUS PEAK STAGE			11.13	Jan 5	11.54	Jul 16 1990
ANNUAL RUNOFF (AC-FT)	127		455		181	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

LAS VEGAS VALLEY

09419673 FLAMINGO WASH NEAR TORREY PINES DRIVE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°06'09", long 115°14'10", in SE 1/4 SW 1/4 sec.23, T.21 S., R.60 E., Clark County, Hydrologic Unit 15010015, 0.25 mi north of Tropicana Avenue on Torrey Pines Drive. Gage is located on west (upstream) side of concrete box culvert that crosses under road.

DRAINAGE AREA.--93.6 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with .04 inch increment. Elevation of gage is 2,335 ft above sea level, from topographic map.

REMARKS.--Records poor. No flow most days most years. Maximum daily precipitation for period of record, 1.88 in., March 27, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 312 ft³/s, March 27, gage-height 11.87 ft, from rating curve extended above 240 ft³/s, on basis of slope-area measurement of peak flow; no flow most days. Maximum daily precipitation, 1.88 in., March 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.06	.00
2	.00	.00	.00	.00	.00	13	.00	.00	.32	.00	.00	.00
3	.00	.00	.00	.00	.00	.64	.00	.00	.01	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.09	.00	.00	e13	.00	.00	.00	.17	.03	.00	.00	.00
6	.00	.00	.00	e1.3	.00	.00	.00	.02	.00	.00	.00	.00
7	.38	.00	.00	.00	29	12	.00	.00	.00	.00	.06	.00
8	.00	.00	.00	.00	.97	7.8	.00	.54	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.14	.00	.13	.00	.01	.00	.00
10	.00	.00	1.7	.00	.00	.00	.00	.00	.00	.01	.00	.00
11	.00	.00	9.1	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	20	.00	.00	.00	.00	.00	.01	.00
13	.00	.00	.00	.00	12	.00	.00	.00	.00	.01	.00	.00
14	.00	2.2	.16	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	27	.00	.00	2.3	.00	.00	.01	.00	.00	.00	.00
16	.00	1.8	.18	.00	.05	.00	.00	.00	.00	.01	.00	.00
17	.00	.00	.51	.00	.00	.00	.00	.00	.00	.01	.00	.00
18	.00	.00	.00	.22	.00	.00	.00	.00	.00	.01	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
20	.00	.00	.09	.00	.00	.00	.00	.00	.00	.01	.00	.00
21	.00	.00	1.9	.00	.00	.02	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.44	.00	.01	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	e.25	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
27	.00	.00	.00	.00	.00	40	.00	.00	.00	.00	.00	.00
28	.00	.72	.00	.00	.00	2.4	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	2.4	.00	.00	.00	.00	.00	.00
30	.00	.00	11	.00	---	e6.0	e.50	.01	.00	.00	.28	.00
31	.00	---	.00	.00	---	5.6	---	.04	---	.00	.00	---
TOTAL	0.47	31.72	24.64	14.52	64.32	90.69	0.51	0.93	0.39	0.08	0.41	0.00
MEAN	.015	1.06	.79	.47	2.22	2.93	.017	.030	.013	.003	.013	.000
MAX	.38	.27	.11	.13	.29	.40	.50	.54	.32	.01	.28	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.9	.63	.49	.29	128	180	1.0	1.8	.8	.2	.8	.00
†	.00	.28	.28	.32	1.68	4.84	.00	.16	.00	.00	.00	.00

e Estimated

† Precipitation total, in inches.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	.009	.26	.20	.18	.71
MAX	.021	1.06	.79	.47	2.22
(WY)	1991	1992	1992	1992	1992
MIN	.000	.000	.000	.017	.13
(WY)	1989	1989	1989	1991	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	151.28	228.68		
ANNUAL MEAN	.41	.62		
HIGHEST ANNUAL MEAN			.60	1990
LOWEST ANNUAL MEAN			1.39	1989
HIGHEST DAILY MEAN	48	Sep 6	165	Jul 16 1990
LOWEST DAILY MEAN	.00	Jan 1	.00	Feb 29 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 5	.00	Feb 29 1988
INSTANTANEOUS PEAK FLOW			312	Mar 27 1990
INSTANTANEOUS PEAK STAGE			11.87	Mar 27 1990
ANNUAL RUNOFF (AC-FT)	300	454	21.41	Jul 16 1990
10 PERCENT EXCEEDS	.33	.15	.39	
50 PERCENT EXCEEDS	.00	.00	.00	
90 PERCENT EXCEEDS	.00	.00	.00	

LAS VEGAS VALLEY

87

094196781 FLAMINGO WASH AT NELLIS BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'32", long 115°03'23", in NE 1/4 NE 1/4 sec.8, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, .25 mi north of Sahara Avenue on Nellis Boulevard. Gage is on west (upstream) side of concrete box culvert that crosses under road.

DRAINAGE AREA.--215 mi².

PERIOD OF RECORD.--March 1988 to current year.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with .04 inch increment. Elevation of gage is 1,730 ft above sea level, from topographic map.

REMARKS.--Records poor. Maximum daily precipitation for period of record, 1.52 in., June 10, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 866 ft³/s March 27, gage height 12.16 ft, on basis of rating curve extended through slope-area measurements of peak flow; minimum daily, 1.4 ft³/s, November 3. Maximum daily precipitation, 1.12 in., March 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.1	3.6	8.5	e3.3	9.6	12	e8.0	6.6	6.7	6.9	6.9
2	7.8	1.8	3.8	8.5	e3.40	47	11	e8.0	26	6.9	7.0	7.7
3	7.7	1.4	3.7	12	e3.2	24	11	e8.0	10	6.8	6.8	7.0
4	5.9	1.7	3.9	14	e3.4	11	11	e8.0	8.0	6.6	6.6	6.8
5	4.6	1.6	3.4	42	e3.0	11	10	8.1	8.0	6.4	6.8	6.9
6	4.4	2.1	3.5	65	e2.9	11	9.6	9.3	8.0	6.3	6.9	6.8
7	3.9	2.3	3.9	9.9	44	64	9.6	8.0	8.0	6.5	6.9	7.4
8	5.0	2.4	3.5	9.8	8.8	164	9.6	13	8.0	6.9	6.8	7.8
9	3.7	2.4	2.9	6.8	3.8	e15	9.6	12	8.0	7.2	6.7	7.7
10	3.2	2.0	3.0	6.1	4.9	e6.2	9.6	8.0	7.8	7.0	6.8	7.7
11	3.5	2.0	39	6.1	4.5	6.0	9.6	8.0	7.3	6.6	6.9	7.3
12	3.5	2.3	6.6	5.3	75	5.9	9.6	7.3	7.3	6.3	8.6	6.9
13	2.4	2.7	6.6	4.2	74	5.3	9.6	7.3	7.3	6.9	8.1	6.7
14	2.1	19	5.9	3.8	17	5.2	9.6	6.8	7.3	6.5	6.9	6.9
15	2.4	63	5.3	4.1	20	5.9	8.7	6.6	7.2	6.5	6.7	6.8
16	2.9	19	4.3	4.2	15	6.1	8.0	6.6	7.1	6.7	6.8	6.9
17	3.1	4.2	4.8	4.2	13	6.3	8.0	6.6	7.2	6.4	6.6	7.0
18	3.0	4.3	6.4	4.3	12	6.3	8.0	6.6	7.2	6.6	6.7	7.0
19	2.7	4.4	6.2	4.3	11	5.9	8.0	6.6	7.2	6.6	6.8	6.8
20	3.6	4.2	4.3	4.2	11	5.2	9.5	6.6	7.3	7.3	6.7	6.8
21	3.0	4.2	4.2	6.2	11	7.3	9.6	6.6	7.1	7.2	6.7	7.4
22	2.8	4.2	4.2	4.2	11	23	9.6	6.6	7.3	6.9	6.4	7.6
23	3.0	4.0	4.3	4.1	11	26	9.6	6.6	7.2	6.7	6.3	7.6
24	2.9	4.2	4.3	4.0	11	5.8	9.6	6.6	7.1	6.7	6.5	7.5
25	2.8	4.0	4.2	e4.1	11	5.2	8.8	6.6	7.1	6.8	6.5	7.5
26	2.7	3.7	4.2	e4.0	10	5.1	e8.0	6.7	7.2	6.9	6.4	7.5
27	2.7	3.3	4.3	e3.8	9.7	348	e8.0	6.6	7.1	7.0	6.5	7.5
28	2.2	3.0	4.2	e3.7	9.6	62	e8.0	6.8	7.0	6.9	6.4	7.7
29	3.0	3.5	4.2	e3.6	9.6	71	e8.0	6.7	6.8	6.8	6.3	8.2
30	2.3	3.3	40	e3.5	---	146	e8.0	6.6	6.7	6.6	8.6	7.1
31	2.0	---	9.0	e3.7	---	e80	---	6.7	---	6.8	7.2	---
TOTAL	110.5	182.3	211.7	272.2	427.10	1200.3	278.8	232.5	241.4	209.0	212.8	217.4
MEAN	3.56	6.08	6.83	8.78	14.7	38.7	9.29	7.50	8.05	6.74	6.86	7.25
MAX	7.8	63	40	65	75	348	12	13	26	7.3	8.6	8.2
MIN	2.0	1.4	2.9	3.5	2.9	5.1	8.0	6.6	6.6	6.3	6.3	6.7
AC-FT	219	362	420	540	847	2380	553	461	479	415	422	431
†	.07	.48	.00	1.79	1.56	4.44	.00	.08	.00	.00	.08	.00

e Estimated

† Precipitation total, in inches

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	5.00	5.31	5.56	7.69	7.12	11.2	4.80	4.89	6.25	6.10	6.29	5.87
MEAN	5.00	5.31	5.56	7.69	7.12	11.2	4.80	4.89	6.25	6.10	6.29	5.87
MAX	6.13	6.08	6.83	11.4	14.7	38.7	9.29	7.50	12.7	11.9	10.7	7.56
(WY)	1991	1992	1992	1990	1992	1992	1992	1992	1990	1990	1989	1991
MIN	3.56	4.58	4.30	4.53	3.46	.000	.80	.000	.000	.000	.68	.000
(WY)	1992	1990	1991	1991	1991	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	2063.3		3796.00			
ANNUAL MEAN	5.65		10.4		7.26	
HIGHEST ANNUAL MEAN					10.4	
LOWEST ANNUAL MEAN					5.57	
HIGHEST DAILY MEAN	102	Mar 27	348	Mar 27	348	Mar 27 1992
LOWEST DAILY MEAN	1.4	Nov 3	1.4	Nov 3	.00	Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	1.8	Oct 31	1.8	Oct 31	.00	Mar 1 1988
INSTANTANEOUS PEAK FLOW			866	Mar 27	4100	Jun 10 1990
INSTANTANEOUS PEAK STAGE			12.16	Mar 27	15.90	Jun 10 1990
ANNUAL RUNOFF (AC-FT)	4090		7530		5260	
10 PERCENT EXCEEDS	6.3		11		8.0	
50 PERCENT EXCEEDS	4.2		6.8		5.3	
90 PERCENT EXCEEDS	2.6		3.2		.00	

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. Gage was moved 500 ft upstream on May 9, 1991.

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 sea level, from topographic map. Prior to May 9, 1991, at site 500 ft downstream at datum 10.0 ft lower. Prior to April 7, 1986, at site 450 ft downstream at datum 8.8 ft lower.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by sewage treatment plant.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 347 ft³/s, February 12, gage height, 5.22 ft; minimum daily, 118 ft³/s, February 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e170	156	154	155	145	137	178	159	165	155	164	178
2	e168	156	154	156	149	205	175	162	181	154	166	135
3	e169	156	151	154	146	200	173	160	172	156	166	174
4	e172	155	155	154	145	137	175	159	168	156	165	163
5	e172	156	156	169	147	133	174	160	165	155	144	164
6	e171	155	154	227	148	134	172	165	161	162	165	164
7	e167	155	153	159	234	139	169	165	161	166	166	165
8	e165	155	152	153	169	293	169	163	161	133	169	160
9	e173	156	154	141	144	204	170	179	160	166	167	164
10	e162	155	150	141	151	161	167	161	158	160	167	166
11	e155	157	181	143	144	157	171	165	158	158	169	161
12	e160	155	157	141	187	152	168	158	157	158	174	166
13	e172	155	155	144	283	151	168	163	155	161	177	162
14	e177	172	151	145	142	150	164	165	155	161	169	166
15	e175	240	148	143	162	153	173	162	155	161	166	166
16	e170	183	150	141	156	156	173	163	159	161	165	168
17	177	163	148	141	143	155	173	160	155	162	165	170
18	172	164	147	142	149	155	174	137	157	162	161	168
19	173	158	148	146	147	153	171	168	158	160	160	167
20	173	131	138	145	146	157	170	167	155	163	163	165
21	172	132	137	147	138	163	168	161	156	161	161	170
22	141	157	143	147	142	183	167	163	158	163	159	173
23	171	162	146	146	145	216	167	162	157	156	161	173
24	170	159	148	143	145	159	167	161	161	156	161	173
25	168	158	144	150	152	153	170	164	158	159	160	168
26	164	156	149	147	118	153	169	163	158	162	161	167
27	163	156	157	148	146	302	169	190	159	164	160	169
28	160	154	157	145	137	213	164	159	157	164	161	171
29	158	154	158	147	135	200	159	173	158	165	162	169
30	158	150	199	149	---	249	160	167	157	168	171	167
31	159	---	159	146	---	279	---	166	---	164	177	---
TOTAL	5177	4771	4753	4655	4495	5552	5087	5070	4795	4952	5102	4992
MEAN	167	159	153	150	155	179	170	164	160	160	165	166
MAX	177	240	199	227	283	302	178	190	181	168	177	178
MIN	141	131	137	141	118	133	159	137	155	133	144	135
AC-FT	10270	9460	9430	9230	8920	11010	10090	10060	9510	9820	10120	9900

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1992, BY WATER YEAR (WY)

MEAN	119	121	116	123	124	125	121	115	116	117	124	125
MAX	167	159	153	162	163	179	170	164	160	160	170	171
(WY)	1992	1992	1992	1991	1991	1992	1992	1992	1990	1992	1991	1991
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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1979 - 1992
--------------------	------------------------	---------------------	-------------------------

ANNUAL TOTAL	59111		59401				
ANNUAL MEAN	162		162			122	
HIGHEST ANNUAL MEAN						162	1992
LOWEST ANNUAL MEAN						87.3	1981
HIGHEST DAILY MEAN	286	Feb 28	302	Mar 27		360	Aug 18 1983
LOWEST DAILY MEAN	84	Jul 30	118	Feb 26		45	Aug 22 1979
ANNUAL SEVEN-DAY MINIMUM	143	Dec 19	139	Feb 24		50	Aug 19 1979
INSTANTANEOUS PEAK FLOW			347	Feb 12		734	Jul 2 1980
INSTANTANEOUS PEAK STAGE			5.22	Feb 12		6.64	Aug 17 1989
ANNUAL RUNOFF (AC-FT)	117200		117800			88690	
10 PERCENT EXCEEDS	173		173			159	
50 PERCENT EXCEEDS	160		161			115	
90 PERCENT EXCEEDS	149		145			84	

LAS VEGAS VALLEY

89

09419700 LAS VEGAS WASH NEAR HENDERSON, NV

LOCATION.--Lat 36°05'20", long 114°59'05", in SE 1/4 SW 1/4 sec.30, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right bank at upstream end of 4.5-ft pipe culvert on road, 3.5 mi north of Henderson, and 6.0 mi upstream from Lake Mead.

DRAINAGE AREA.--2,125 mi², of which 1,518 mi² contribute directly to surface runoff. Prior to April 4, 1961, 2,179 mi², of which 1,571 mi² contributed directly to surface runoff.

PERIOD OF RECORD.--Water years 1957 to June 1992 (discontinued).

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.

COOPERATION.--All water-quality sampling and analyses prior to July 1970, plus nutrient analyses for period July 1970 to September 1972, from U.S. Environmental Protection Agency. Data in addition to those listed under "Period of Record" for January 1964 to June 1970 may exist in files of U.S. Environmental Protection Agency.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 3,150 microsiemens, January 5, 1987; minimum daily, 1,470 microsiemens, 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT									
10...	1040	E175	2200	7.3	29.0	24.0	1.60	1.60	3.80
NOV									
13...	0900	E144	2470	7.5	19.0	19.0	1.20	1.20	2.60
DEC									
19...	0845	E140	2600	7.4	9.5	15.0	--	1.00	2.30
JAN									
16...	0915	E170	2450	7.6	13.0	6.0	0.380	0.390	2.20
FEB									
25...	1105	E160	2720	7.6	22.0	18.0	0.460	0.460	--
MAR									
31...	1600	E550	1800	7.6	--	17.0	0.180	0.170	1.50
APR									
09...	0945	E175	2970	7.5	23.5	21.5	0.510	0.510	1.80
16...	0930	E190	2900	7.5	22.0	21.5	0.680	0.680	2.00
23...	1030	E160	2680	7.8	24.0	23.0	0.900	0.850	2.30
30...	0815	E143	2720	7.5	27.0	22.0	1.00	1.00	2.50
MAY									
08...	0900	E140	2710	7.5	27.0	24.0	1.30	1.30	2.70
15...	0815	E160	2660	7.7	26.0	22.0	1.60	1.50	3.30
22...	0900	E145	2580	8.0	24.0	23.0	1.40	1.30	2.70
29...	0845	E150	2470	7.5	25.0	23.0	1.00	0.970	2.80
JUN									
05...	0630	E145	2490	7.5	22.0	23.0	1.20	1.20	3.10
12...	0820	E155	2440	7.3	27.5	23.0	1.50	1.50	3.40
19...	0810	E130	2390	7.9	28.0	23.5	1.40	1.40	3.30

LAS VEGAS VALLEY

09419700 LAS VEGAS WASH NEAR HENDERSON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT									
10...	3.80	9.90	9.90	13	12	0.560	0.040	0.250	0.230
NOV									
13...	2.60	0.500	0.520	16	15	0.740	0.460	0.380	0.380
DEC									
19...	2.70	12.0	11.0	16	14	0.800	0.430	0.480	0.370
JAN									
16...	2.20	12.0	12.0	17	15	0.320	0.170	0.150	0.120
FEB									
25...	2.50	13.0	14.0	15	15	0.470	0.320	0.270	0.250
MAR									
31...	1.60	3.70	3.70	4.4	4.8	0.130	0.110	0.120	0.100
APR									
09...	1.80	12.0	13.0	15	13	0.380	0.160	0.190	0.160
16...	2.00	12.0	12.0	13	13	0.260	0.140	0.120	0.120
23...	2.20	13.0	11.0	14	14	0.030	0.020	0.160	0.100
30...	2.50	12.0	11.0	14	12	0.330	0.180	0.180	0.130
MAY									
08...	2.80	11.0	11.0	14	13	0.350	0.260	0.250	0.170
15...	3.20	9.90	10.0	12	12	0.290	0.220	0.190	0.140
22...	2.70	11.0	11.0	15	14	0.870	0.570	0.670	0.500
29...	2.80	10.0	9.80	12	12	0.410	0.230	0.260	0.220
JUN									
05...	3.20	10.0	9.80	13	12	0.360	0.270	0.250	0.190
12...	3.40	10.0	10.0	13	12	0.310	0.160	0.180	0.130
19...	3.20	11.0	10.0	13	13	0.500	0.270	0.270	0.230

E: ESTIMATED

LAS VEGAS VALLEY

91

09419753 LAS VEGAS WASH ABOVE THREE KIDS WASH BELOW HENDERSON, NV

LOCATION.--Lat 36°05'53", long 114°56'42", in NW 1/4 NE 1/4 sec.28, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, in Lake Mead National Recreation Area, on right bank, 0.1 mi upstream from Three Kids Wash, 2.7 mi southwest of Northshore Road Bridge, and 3.0 mi northeast of Henderson.

DRAINAGE AREA.--2,180 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,460 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s, March 27, from weir rating of Las Vegas Wash Overflow at Las Vegas Inlet (station 09419756) and discharge at Las Vegas Wash below Lake Las Vegas below Henderson (station 09419790); minimum daily, 142 ft³/s, December 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	170	176	167	185	e158	e179	e179	e170	e159	e173	e179
2	176	168	177	169	184	e174	e171	e173	e171	e159	e175	e158
3	177	165	176	170	185	e265	e175	e173	e175	e162	e175	e178
4	179	169	175	168	183	e185	e185	e173	e171	e171	e176	e173
5	179	168	174	173	184	e179	e185	e175	e175	e171	e168	e173
6	180	171	172	290	184	e176	e181	e177	e170	e170	e180	e172
7	177	170	171	186	225	e236	e180	e180	e168	e175	e177	e172
8	173	171	171	183	205	e847	e181	e173	e170	e164	e175	e172
9	181	171	170	175	184	e271	e169	e179	e173	e180	e171	e172
10	170	172	160	177	184	e191	e161	e166	e177	e180	e170	e174
11	163	173	159	184	e188	e184	e162	e164	e173	e175	e170	e171
12	166	174	156	185	e185	e176	e164	e164	e173	e173	e170	e172
13	179	175	153	188	e638	e174	e167	e168	e173	e173	e175	e173
14	185	174	142	189	e190	e168	e164	e168	e177	e173	e168	e175
15	183	204	158	189	e174	e166	e208	e162	e180	e173	e164	e176
16	183	211	157	188	e186	e165	e227	e164	e173	e173	e162	e177
17	175	191	159	189	e168	e167	e217	e162	e182	e173	e157	e180
18	181	195	157	185	e164	e166	e192	e152	e168	e173	e154	e181
19	180	194	155	186	e160	e166	e201	e166	e168	e173	e154	e184
20	181	176	150	185	e159	e165	e229	e164	e164	e173	e151	e186
21	180	163	153	184	e156	e168	e218	e164	e164	e173	e148	e186
22	167	175	154	183	e155	e167	e214	e164	e166	e173	e157	e182
23	181	176	162	182	e156	e192	e206	e164	e168	e173	e158	e181
24	181	177	156	181	e154	e179	e205	e162	e162	e171	e160	e178
25	180	177	153	185	e155	e166	e207	e166	e168	e173	e161	e175
26	179	176	158	184	e143	e162	e206	e164	e166	e175	e161	e174
27	181	176	168	184	e157	e1070	e204	e180	e173	e176	e163	e177
28	175	177	166	183	e159	e555	e202	e168	e171	e175	e164	e178
29	170	175	171	183	e158	e187	e185	e169	e159	e175	e160	e176
30	168	174	183	186	---	e613	e176	e170	e164	e175	e166	e177
31	168	---	169	185	---	e944	---	e173	---	e175	e177	---
TOTAL	5476	5308	5061	5746	5508	8782	5721	5226	5112	5337	5140	5282
MEAN	177	177	163	185	190	283	191	169	170	172	166	176
MAX	185	211	183	290	638	1070	229	180	182	180	180	186
MIN	163	163	142	167	143	158	161	152	159	159	148	158
AC-FT	10860	10530	10040	11400	10930	17420	11350	10370	10140	10590	10200	10480

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1988	1989	1990	1991	1992
MEAN	168	169	169	179	180	197	171	162	161	160
MAX	177	177	182	188	190	283	191	172	187	172
(WY)	1992	1992	1990	1990	1992	1992	1992	1990	1990	1992
MIN	155	154	154	171	172	161	156	152	139	145
(WY)	1989	1989	1989	1991	1990	1989	1989	1989	1988	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1988 - 1992
ANNUAL TOTAL	62114	67699	
ANNUAL MEAN	170	185	172
HIGHEST ANNUAL MEAN			185
LOWEST ANNUAL MEAN			160
HIGHEST DAILY MEAN	278	1070	1070
LOWEST DAILY MEAN	132	142	114
ANNUAL SEVEN-DAY MINIMUM	142	154	133
INSTANTANEOUS PEAK FLOW		2840	4050
INSTANTANEOUS PEAK STAGE		unknown	11.28
ANNUAL RUNOFF (AC-FT)	123200	134300	124800
10 PERCENT EXCEEDS	185	189	184
50 PERCENT EXCEEDS	170	173	168
90 PERCENT EXCEEDS	155	159	151

LAS VEGAS VALLEY

09419753 LAS VEGAS WASH ABOVE THREE KIDS WASH BELOW HENDERSON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to June 1992 (discontinued).

REMARKS.--Discharge includes treated sewage effluent and wastewater from municipal and industrial sources.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT									
10...	1240	190	2230	7.6	28.0	26.0	1.30	1.30	3.00
NOV									
13...	1040	160	2650	7.5	16.5	19.0	1.60	1.60	3.10
DEC									
19...	1030	156	2740	7.5	12.0	15.5	1.10	0.790	2.70
JAN									
16...	1030	187	2850	7.8	13.5	7.0	0.390	0.370	2.30
FEB									
25...	1230	E170	2760	7.6	22.0	18.0	0.510	0.500	2.20
MAR									
31...	1250	E1250	2460	7.7	--	--	0.130	0.120	1.60
APR									
09...	1115	192	3260	7.7	21.0	24.0	0.520	0.510	1.90
16...	1200	209	3190	7.6	24.0	23.5	0.800	0.780	2.30
23...	1300	177	2990	7.9	28.0	24.0	1.10	1.00	2.70
30...	1030	158	2940	7.8	33.0	24.0	1.30	1.30	3.00
MAY									
08...	1130	152	2920	7.6	33.5	26.5	1.60	1.60	3.20
15...	1230	175	2630	7.7	36.0	27.5	1.20	1.10	2.50
22...	1130	158	2700	7.7	31.0	25.0	1.60	1.60	3.20
29...	1000	165	2660	7.6	25.0	24.0	1.20	1.10	2.90
JUN									
05...	0815	E160	2770	7.7	27.0	23.5	1.40	1.40	3.30
12...	1045	E170	2690	7.6	27.5	24.5	1.80	1.80	3.90
19...	0945	145	2700	7.5	34.5	25.5	1.80	1.70	3.50

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
OCT									
10...	2.90	11.0	10.0	15	10	0.470	0.040	0.200	0.190
NOV									
13...	2.90	0.470	0.450	15	14	0.720	0.410	0.430	0.400
DEC									
19...	2.30	11.0	12.0	15	15	0.810	0.460	0.420	0.390
JAN									
16...	2.40	11.0	12.0	14	14	0.310	0.150	0.160	0.110
FEB									
25...	2.40	13.0	12.0	14	13	0.730	0.280	0.250	0.150
MAR									
31...	1.60	1.60	1.60	2.2	2.1	1.30	0.090	0.110	0.100
APR									
09...	2.00	11.0	11.0	13	12	0.570	0.150	0.230	0.110
16...	2.30	11.0	10.0	12	13	0.470	0.120	0.170	0.090
23...	2.70	9.80	11.0	14	9.9	0.050	0.140	0.180	0.120
30...	3.00	9.60	9.20	11	10	0.310	0.160	0.210	0.130
MAY									
08...	3.20	8.90	9.60	12	13	1.10	0.940	0.750	0.800
15...	2.50	12.0	12.0	14	13	0.310	0.220	0.190	0.140
22...	3.20	9.20	9.10	13	11	0.760	0.430	0.540	0.480
29...	3.00	9.10	9.00	11	11	0.480	0.200	0.330	0.200
JUN									
05...	3.40	9.10	8.80	12	9.9	0.330	0.260	0.240	0.190
12...	3.90	8.90	9.00	12	11	0.320	0.170	0.150	0.140
19...	3.70	1.90	9.20	11	12	0.510	0.250	0.260	0.230

E: ESTIMATED

LAS VEGAS VALLEY

93

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 southwest of Henderson.

DRAINAGE AREA.--2,200 mi², approximately.

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,530 ft³/s, March 27, gage height, 23.31 ft; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	24	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	287	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	238	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	548	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	55	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	237	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	304	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	24.00	238.00	1431.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.0000	.0000	.0000	.77	8.21	46.2	.0000	.0000	.0000	.0000	.0000	.0000
MAX	.00	.00	.00	24	238	548	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	48	472	2840	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	.0000	.0000	.0000	.77	8.21	46.2	.0000	.0000	.0000	.0000	.0000	.0000
MAX	.0000	.0000	.0000	.77	8.21	46.2	.0000	.0000	.0000	.0000	.0000	.0000
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	.0000	.0000	.0000	.77	8.21	46.2	.0000	.0000	.0000	.0000	.0000	.0000
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	1693.00
ANNUAL MEAN	4.63
HIGHEST DAILY MEAN	548 Mar 27
LOWEST DAILY MEAN	.00 Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1
INSTANTANEOUS PEAK FLOW	2530 Mar 27
INSTANTANEOUS PEAK STAGE	23.31 Mar 27
ANNUAL RUNOFF (AC-FT)	3360
10 PERCENT EXCEEDS	.00
50 PERCENT EXCEEDS	.00
90 PERCENT EXCEEDS	.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 southeast of Henderson.

DRAINAGE AREA--2,190 mi², approximately.

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 1,330 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, March 31, gage height, unknown; minimum daily, 142 ft³/s, December 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e178	e170	e176	e167	e188	158	179	179	170	159	173	179
2	e176	e168	e177	e169	e188	174	171	173	171	159	175	158
3	e177	e165	e176	e170	e188	265	175	173	175	162	175	178
4	e177	e169	e175	e168	e187	185	185	173	171	171	176	173
5	e179	e168	e174	e173	e187	179	185	175	175	171	168	173
6	e180	e171	e172	e266	e187	176	181	177	170	170	180	172
7	e177	e170	e171	e186	218	236	180	180	168	175	177	172
8	e173	e171	e171	e183	218	e560	181	173	e170	164	175	172
9	e181	e171	e170	e175	185	271	169	179	e173	180	171	172
10	e170	e172	e160	e177	188	191	161	166	177	180	170	174
11	e163	e173	e159	e184	188	184	162	164	173	175	170	171
12	e166	e174	e156	e185	185	176	164	164	173	173	170	172
13	e179	e175	e153	e188	e400	174	167	168	173	e173	175	173
14	e185	e174	e142	e189	190	168	e164	168	177	e173	168	175
15	e183	e204	e158	e189	174	166	e208	162	180	e173	164	176
16	e183	e211	e157	e188	186	165	227	164	173	e173	162	177
17	e175	e191	e159	e189	168	167	217	162	182	e173	157	180
18	e181	e195	e157	e186	164	166	192	152	168	e173	154	181
19	e180	e194	e155	e186	160	166	201	166	168	e173	154	184
20	e181	e176	e150	e186	159	165	229	164	164	e173	151	186
21	e180	e163	e153	e185	156	168	218	164	164	173	148	186
22	e167	e175	e154	e185	155	167	214	164	166	173	157	182
23	e181	e176	e162	e184	156	192	206	164	168	173	158	181
24	e181	e177	e156	e183	154	179	205	162	162	171	160	178
25	e180	e177	e153	e186	155	166	207	166	168	173	161	175
26	e179	e176	e158	e187	143	162	206	164	166	175	161	174
27	e181	e176	e168	e186	157	e520	204	180	173	176	163	177
28	e175	e177	e166	e186	159	e500	200	168	171	175	164	178
29	e170	e175	e171	e186	158	187	184	169	159	175	160	176
30	e168	e174	e183	e189	---	376	176	170	164	175	166	177
31	e168	---	e169	e188	---	e640	---	173	---	175	177	---
TOTAL	5476	5308	5061	5749	5301	7349	5718	5226	5112	5337	5140	5282
MEAN	177	177	163	185	183	237	191	169	170	172	166	176
MAX	185	211	183	266	400	640	229	180	182	180	180	186
MIN	163	163	142	167	143	158	161	152	159	159	148	158
AC-FT	10860	10530	10040	11400	10510	14580	11340	10370	10140	10590	10200	10480

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	177	177	163	185	183	237	191	169	170	172	166	176
MAX	177	177	163	185	183	237	191	169	170	172	166	176
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	177	177	163	185	183	237	191	169	170	172	166	176
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	66059	
ANNUAL MEAN	180	
HIGHEST DAILY MEAN	640	Mar 31
LOWEST DAILY MEAN	142	Dec 14
ANNUAL SEVEN-DAY MINIMUM	154	Feb 21
ANNUAL RUNOFF (AC-FT)	131000	
10 PERCENT EXCEEDS	189	
50 PERCENT EXCEEDS	173	
90 PERCENT EXCEEDS	159	

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

95

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 mi², approximately, including 3,959 mi² 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. Evaporation: March 1952 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 850.0 ft--gage sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,211.4 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.

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, 20,214,000 acre-ft, March 24, gage height, 1,180.55 ft; minimum, 19,060,000 acre-ft, November 6, gage height, 1,171.65 ft.

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV--Continued

RESERVOIR STORAGE (THOU AC-FT) WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19226	19065	19075	19301	19796	20075	20173	20106	19776	19486	19353	19312
2	19224	19070	19072	19310	19813	20081	20166	20111	19757	19477	19357	19324
3	19228	19070	19071	19315	19818	20081	20162	20116	19737	19467	19348	19322
4	19223	19067	19071	19326	19822	20086	20169	20108	19716	19461	19344	19327
5	19225	19065	19076	19329	19826	20095	20176	20099	19703	19460	19336	19336
6	19226	19060	19084	19354	19824	20115	20173	20082	19707	19442	19335	19388
7	19220	19062	19097	19372	19837	20115	20172	20069	19706	19425	19325	19347
8	19216	19067	19109	19390	19854	20141	20168	20063	19701	19416	19335	19344
9	19206	19075	19114	19407	19868	20148	20165	20059	19688	19412	19335	19345
10	19196	19080	19122	19428	19881	20156	20168	20058	19678	19410	19329	19349
11	19189	19085	19125	19442	19883	20158	20176	20044	19668	19419	19327	19349
12	19189	19085	19132	19469	19888	20164	20182	20029	19658	19421	19310	19363
13	19192	19086	19140	19491	19908	20168	20182	20015	19656	19426	19297	19377
14	19188	19083	19145	19509	19919	20176	20184	19999	19660	19419	19292	19376
15	19182	19088	19156	19526	19936	20188	20177	19987	19655	19412	19299	19377
16	19196	19097	19159	19545	19952	20184	20174	19979	19649	19404	19310	19375
17	19168	19094	19161	19567	19965	20185	20174	19975	19634	19393	19306	19375
18	19163	19086	19164	19590	19975	20182	20178	19958	19628	19398	19299	19384
19	19159	19084	19170	19607	19983	20182	20177	19940	19615	19403	19289	19399
20	19158	19072	19177	19625	19991	20174	20170	19924	19611	19399	19283	19411
21	19145	19074	19184	19637	20000	20196	20164	19903	19604	19389	19281	19416
22	19132	19072	19195	19647	20015	20208	20154	19890	19595	19380	19286	19411
23	19125	19074	19205	19662	20025	20213	20149	19886	19579	19377	19302	19407
24	19119	19081	19217	19680	20032	20214	20140	19879	19564	19375	19303	19406
25	19114	19084	19228	19701	20037	20202	20144	19874	19553	19381	19301	19408
26	19108	19088	19239	19721	20038	20194	20143	19874	19546	19392	19294	19416
27	19110	19076	19248	19737	20046	20198	20137	19835	19540	19388	19294	19425
28	19099	19081	19254	19749	20057	20198	20133	19823	19522	19375	19294	19424
29	19086	19085	19267	19760	20065	20192	20119	19810	19513	19363	19294	19417
30	19079	19081	19279	19770	---	20190	20112	19790	19497	19350	19310	19416
31	19070	---	19288	19780	---	20182	---	19788	---	19349	19307	---
MAX	19228	19097	19288	19780	20065	20214	20184	20116	19776	19486	19357	19425
MIN	19070	19060	19071	19301	19796	20075	20112	19788	19497	19349	19281	19312
CAL YR 1991	MAX 20166	MIN 19060	# -576000	## 276140	** 77.4	a 828700						
WTR YR 1992	MAX 20214	MIN 19060	# +183000	## 280900	** 62.7	a 675700						
*	1171.73	1171.82	1173.44	1177.25	1179.42	1180.31	1179.78	1177.31	1175.07	1173.92	1173.59	1174.44
#	-163000	+11000	+207000	+492000	+285000	+117000	-70000	-324000	-291000	-148000	-42000	+109000
##	27380	21380	18890	17400	16730	18310	22960	26650	26360	29590	29880	25370
**	9.0	6.9	5.5	4.1	2.7	2.6	6.0	8.1	5.3	4.7	4.0	3.8
a	96000	73200	58200	44300	29400	28700	66500	88300	57000	50600	42900	40600

* Gage height, in feet, at end of month.

Change in contents, in acre-feet.

Diversions, in acre-feet.

** Gross evaporation, in inches, from Lake Mead.

a Gross evaporation, in acre-feet, from Lake Mead.

NOTE: Figures of gross evaporation are based on data obtained on Lake Mead by the U.S. Bureau of Reclamation and at Las Vegas by National Weather Service, and are computed by the Geological Survey. Only the mass-transfer method described in Geological Survey Professional Paper 298 is used. "Gross" denotes the total evaporation from the lake without deduction for precipitation on the lake surface for natural losses that would have occurred in the area now occupied by the lake. Starting February 1976, coefficient of 0.00179.

COLORADO RIVER MAIN STEM

97

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV
(National Stream-Quality Accounting Network Station)

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 mi², approximately, including 3,959 mi² 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 sea level. November 1, 1939, to June 30, 1958, water-stage recorder at site 0.8 mi downstream at datum 600.35 ft above sea level. 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.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 19,700 ft³/s, May 26; minimum daily, 2,580 ft³/s, January 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14700	9670	9420	4430	5130	5900	16300	12600	16700	16600	12600	12000
2	13600	7600	10700	7060	5600	10100	15700	7590	17200	18000	11000	9900
3	10400	7030	9670	8260	8120	8520	12300	8300	18500	16400	16000	11000
4	10200	11300	8920	5840	7500	8130	9040	13500	18100	14500	18000	11500
5	7720	9680	8210	6910	9070	7800	8050	16700	17600	15900	17300	8520
6	8460	11400	8580	7240	9050	8210	13400	17100	9380	19500	18000	9210
7	10900	8630	5160	3690	9130	6670	13000	18000	10500	10200	17100	7580
8	10100	8800	5620	4120	5280	5500	12100	15900	13600	17300	10800	12000
9	12400	4830	7320	4280	4870	9050	12900	12300	15600	16600	13800	7610
10	13400	6960	9380	3110	8540	7630	11800	10500	13800	16200	17600	9230
11	12500	8330	8680	3390	8540	9290	7090	15400	14600	9040	18000	10700
12	9240	8950	8320	2840	10200	9590	7990	17100	13600	10700	18500	5060
13	8400	8030	8580	2580	8500	9530	11300	16000	8550	15400	19400	6670
14	10100	10400	8150	2960	7690	6190	11100	17500	9110	16800	18600	10300
15	10300	9830	7650	2990	5850	5580	13100	17000	11500	16600	11000	10500
16	10600	7790	9550	3340	5040	10600	13500	14200	13700	18400	9360	12000
17	11500	9260	8690	2890	5910	11000	12600	12100	15400	18300	17200	12500
18	12600	11800	9350	2920	6900	11100	9430	16600	14600	11900	16900	10800
19	10200	12300	7890	4060	7460	10800	10800	18500	16000	12400	16200	4800
20	9120	10300	7510	3110	7570	9630	12600	18700	13300	15600	18200	5760
21	13800	7590	7170	6680	8240	6700	14000	18300	12900	16100	14500	12900
22	12000	10400	6730	6330	5550	4750	14600	17400	16700	15100	8640	13600
23	10300	7070	6620	5810	6340	10800	14300	11800	16700	13800	7550	11200
24	10800	6250	6050	5740	8540	11400	15700	12000	17000	15700	13800	11500
25	11100	8930	5520	4250	7880	15700	9660	12900	17000	11600	14700	10400
26	7980	9590	7630	4750	9410	16900	11600	19700	15000	11500	14100	7240
27	10100	9360	7550	5300	7120	14900	12100	18200	14300	15200	14100	7680
28	12200	7680	6370	6070	7790	10600	12200	17300	17400	18400	14700	12400
29	12500	8460	6630	6610	7390	15300	12800	19400	17100	18000	10900	13600
30	11800	11000	7450	6800	---	14500	12600	14300	16700	17600	8950	11000
31	10700	---	6080	7550	---	16500	---	12300	---	16800	15500	---
TOTAL	339720	269220	241150	151910	214210	308870	363660	469190	442140	476140	453000	299160
MEAN	10960	8974	7779	4900	7387	9964	12120	15140	14740	15360	14610	9972
MAX	14700	12300	10700	8260	10200	16900	16300	19700	18500	19500	19400	13600
MIN	7720	4830	5160	2580	4870	4750	7090	7590	8550	9040	7550	4800
AC-FT	673800	534000	478300	301300	424900	612600	721300	930600	877000	944400	898500	593400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1992, BY WATER YEAR (WY)

	MEAN	12050	11740	11950	12470	12670	14710	15650	15990	15680	15640	15230	13620
MAX	34250	30530	33670	32700	30680	28790	26290	33330	34890	41870	39390	36750	
(WY)	1984	1942	1942	1942	1984	1984	1984	1986	1986	1984	1983	1983	
MIN	3109	3519	4444	3540	3820	7045	7297	8898	9786	10880	9961	6619	
(WY)	1935	1935	1935	1979	1935	1935	1935	1937	1940	1937	1936	1982	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1935 - 1992
ANNUAL TOTAL	4513710	4028370	
ANNUAL MEAN	12370	11010	13960
HIGHEST ANNUAL MEAN			30590
LOWEST ANNUAL MEAN			7674
HIGHEST DAILY MEAN	20200	May 29	50800
LOWEST DAILY MEAN	4830	Nov 9	152
ANNUAL SEVEN-DAY MINIMUM	6620	Dec 23	927
INSTANTANEOUS LOW FLOW			100
ANNUAL RUNOFF (AC-FT)	8953000	7990000	10110000
10 PERCENT EXCEEDS	17500	17100	21900
50 PERCENT EXCEEDS	12200	10600	13300
90 PERCENT EXCEEDS	7540	5830	6460

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, Ariz.

COOPERATION.--Instantaneous-discharge data provided by U.S. Bureau of Reclamation.

EXTREMES MEASURED FOR PERIOD OF DAILY RECORD SINCE OCTOBER 1977.--

SPECIFIC CONDUCTANCE: Maximum, 1,180 microsiemens, June 10, 1980; minimum, 787 microsiemens, 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 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI, FECAL, KF AGAR (COLS. PER 100 ML)
OCT 28...	1100	11000	990	7.8	18.0	16.0	0.70	7.1	73	<2	<2
DEC 16...	1100	4680	990	7.8	15.0	13.5	0.40	7.8	76	<2	<2
FEB 19...	1000	16500	1020	7.8	12.0	12.0	0.30	--	--	<2	<2
APR 21...	1200	19900	1080	7.5	--	13.0	0.50	7.0	68	<1	K1
AUG 24...	1000	18500	1020	7.8	27.5	13.0	0.90	6.2	60	<2	<2

DATE	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT 28...	320	82	28	92	2	4.4	166	136	280	84	0.40
DEC 16...	310	77	28	96	2	4.3	165	132	260	84	0.30
FEB 19...	320	78	30	99	2	4.6	159	130	270	86	0.20
APR 21...	300	73	29	91	2	4.6	174	143	260	86	0.40
AUG 24...	320	79	30	98	2	4.5	181	148	260	85	0.30

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
OCT 28...	8.9	628	664	0.85	<0.010	<0.010	0.330	0.330	0.010	<0.010
DEC 16...	9.3	643	642	0.87	0.010	0.010	0.410	0.330	0.040	0.030
FEB 19...	9.0	648	658	0.88	<0.010	<0.010	0.410	0.400	0.010	0.010
APR 21...	8.6	662	640	0.90	<0.010	<0.010	0.350	0.380	0.030	0.010
AUG 24...	8.7	658	657	0.89	<0.010	<0.010	0.380	0.360	0.020	0.010

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, AZ-NV--Continued

99

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
OCT 28...	0.20	<0.010	<0.010	<0.010	0.020	10	120	<3	15	45
DEC 16...	0.20	<0.010	<0.010	<0.010	<0.010	--	--	--	--	--
FEB 19...	<0.20	0.010	<0.010	<0.010	<0.010	<10	120	<3	<3	50
APR 21...	<0.20	0.010	<0.010	<0.010	0.010	--	--	--	--	--
AUG 24...	0.20	<0.010	<0.010	0.010	<0.010	20	130	<3	<3	45

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	6	<10	<1	<1	<1.0	1100	<6	--	--	--
DEC 16...	--	--	--	--	--	--	--	--	--	--
FEB 19...	<1	<10	<1	2	<1.0	1100	<6	6	155	61
APR 21...	--	--	--	--	--	--	--	3	161	83
AUG 24...	<1	<10	1	2	<1.0	1100	<6	4	200	83

K: NON-IDEAL COLONY COUNT

SPRING VALLEY

10243700 CLEVE CREEK NEAR ELY, NV

DRAINAGE AREA.--31.8 mi².

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft above sea level, 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Minimum daily, 4.0 ft³/s, Sept. 10.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	5.7	4.9	e5.4	4.9	5.5	6.9	9.5	6.9	6.0	4.2	4.4
2	5.4	5.6	5.9	e5.1	5.0	5.3	6.8	9.5	6.8	5.3	4.1	4.3
3	5.4	5.5	5.7	e5.0	5.5	5.7	6.9	9.4	6.7	4.7	4.1	4.2
4	5.4	5.5	5.3	e5.2	5.6	5.8	7.2	9.1	6.5	4.5	4.3	4.3
5	5.4	5.6	5.4	5.5	5.3	5.8	7.4	9.0	6.5	4.5	4.6	4.2
6	5.3	5.6	5.3	5.4	5.1	5.9	7.4	8.9	6.6	4.5	4.8	4.1
7	5.3	5.4	5.4	5.6	5.2	5.9	7.4	8.9	6.6	4.7	4.5	4.1
8	5.3	5.3	5.3	e5.4	5.3	5.9	7.4	9.0	6.4	4.6	4.3	4.1
9	5.3	5.3	e5.4	e5.4	5.2	6.1	7.4	9.1	6.3	4.4	4.3	4.1
10	5.3	5.3	e5.5	e5.6	5.3	6.1	7.4	9.1	6.0	4.4	4.3	4.0
11	5.3	5.3	e5.4	e5.7	5.3	6.1	7.4	8.9	5.7	4.7	4.2	4.1
12	5.3	5.3	e5.5	e5.8	5.3	6.1	7.6	8.8	5.6	5.1	4.2	4.1
13	5.3	5.3	5.6	e5.8	5.3	6.2	7.7	8.8	5.8	4.7	4.3	4.1
14	5.3	5.3	e5.5	e5.8	5.2	6.2	7.7	8.6	6.0	4.6	4.3	4.1
15	5.3	5.3	e5.5	e5.6	5.2	6.3	7.7	8.6	6.1	5.3	4.3	4.1
16	5.3	5.3	e5.5	e5.5	5.4	6.3	7.7	8.4	5.9	4.9	4.3	4.2
17	5.4	5.4	e5.5	e5.2	5.7	6.4	7.7	8.3	5.6	4.8	4.3	4.1
18	5.4	5.5	5.5	e4.5	5.8	6.3	7.9	8.2	5.3	4.8	4.2	4.3
19	5.4	5.4	5.5	e4.4	5.4	6.2	7.8	8.2	5.1	4.7	4.1	4.3
20	5.5	5.4	e5.4	e4.5	5.3	6.1	7.8	8.2	5.1	4.4	4.1	4.2
21	5.5	5.4	e5.3	e4.6	5.3	6.2	7.9	8.2	4.9	4.3	4.1	4.2
22	5.4	5.3	e5.2	e4.7	5.5	6.4	7.9	8.1	4.8	4.3	4.1	4.2
23	5.6	6.0	e5.4	e4.4	5.3	6.3	7.8	7.9	4.8	4.2	4.2	4.2
24	5.5	5.4	5.5	e4.4	5.3	6.3	7.8	7.9	4.7	4.3	4.2	4.2
25	5.5	5.3	e5.4	e4.4	5.3	6.4	7.9	7.8	4.9	4.3	4.1	4.2
26	5.6	5.3	e5.5	4.4	5.3	6.6	8.1	7.9	4.9	4.3	4.2	4.2
27	5.9	5.3	5.5	4.4	5.3	6.7	8.3	7.7	4.8	4.3	4.1	4.2
28	5.7	5.4	5.5	4.3	5.5	6.7	8.6	7.5	4.6	4.3	4.1	4.2
29	5.8	5.6	5.5	4.5	5.5	6.7	8.9	7.5	4.3	4.2	4.2	4.1
30	5.7	6.9	5.5	5.0	---	6.8	9.2	7.4	4.6	4.2	4.4	4.1
31	6.0	---	5.5	4.9	---	6.9	---	7.2	---	4.3	4.4	---
TOTAL	169.2	164.2	168.8	156.4	154.6	192.2	231.6	261.6	168.8	142.6	131.9	125.2
MEAN	5.46	5.47	5.45	5.05	5.33	6.20	7.72	8.44	5.63	4.60	4.25	4.17
MAX	6.0	6.9	5.9	5.8	5.8	6.9	9.2	9.5	6.9	6.0	4.8	4.4
MIN	5.3	5.3	4.9	4.3	4.9	5.3	6.8	7.2	4.3	4.2	4.1	4.0
AC-FT	336	326	335	310	307	381	459	519	335	283	262	240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1992, BY WATER YEAR (WY)

MEAN	7.48	7.46	7.37	7.35	6.99	8.13	12.9	23.8	24.3	10.3	8.06	7.43
MAX	16.8	15.3	13.6	21.8	11.8	15.4	30.3	82.9	117	30.0	21.1	16.2
(WY)	1985	1985	1988	1988	1984	1984	1984	1983	1983	1983	1983	1983
MIN	4.56	4.53	4.27	4.05	4.42	4.58	5.20	6.85	5.63	4.60	3.99	3.75
(WY)	1961	1962	1961	1960	1960	1991	1991	1990	1992	1992	1960	1960

SPRING VALLEY

101

10243700 CLEVE CREEK NEAR ELY, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1960 - 1992
ANNUAL TOTAL	2705.1	2067.1	
ANNUAL MEAN	7.41	5.65	10.1
HIGHEST ANNUAL MEAN			22.2 1984
LOWEST ANNUAL MEAN			5.15 1960
HIGHEST DAILY MEAN	40 Jun 5	9.5 May 1	280 May 30 1983
LOWEST DAILY MEAN	4.3 Mar 10	4.0 Sep 10	2.7 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	4.3 Mar 12	4.1 Sep 6	3.4 Dec 18 1990
INSTANTANEOUS PEAK FLOW		9.5 May 1	440 May 30 1983
INSTANTANEOUS PEAK STAGE		1.56 May 1	.00 May 30 1983
INSTANTANEOUS LOW FLOW		3.8 Aug 19	2.3 Feb 27 1960
ANNUAL RUNOFF (AC-FT)	5370	4100	7350
10 PERCENT EXCEEDS	10	7.8	19
50 PERCENT EXCEEDS	5.5	5.4	7.2
90 PERCENT EXCEEDS	4.8	4.2	4.8

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic Bench-Mark 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 east-southeast of Ely.

DRAINAGE AREA.--11.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder and recording weighing rain gage, with 0.10 in. increment since July, 1991. Elevation of gage is 7,440 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.8 ft³/s, May 9, gage height, 1.48 ft; minimum daily, 2.1 ft³/s many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	2.8	3.1	2.5	2.2	2.8	3.3	4.9	3.8	3.2	2.5	2.2
2	3.3	2.9	3.1	2.5	2.2	2.8	3.4	4.6	3.8	3.0	2.4	2.1
3	3.3	3.0	3.2	2.7	2.1	2.9	3.5	4.3	3.8	2.9	2.4	2.1
4	3.3	3.0	3.2	2.7	2.2	3.0	3.5	4.4	3.8	2.9	2.5	2.2
5	3.3	3.0	3.2	2.5	2.2	3.0	3.5	4.7	3.8	2.8	2.5	2.2
6	3.3	3.0	3.3	2.6	2.2	3.0	3.6	5.1	3.9	2.8	2.4	2.1
7	3.4	3.0	3.4	2.4	2.2	3.0	3.6	5.5	3.8	2.8	2.4	2.2
8	3.3	3.0	3.2	2.3	2.2	3.0	3.5	5.6	3.7	2.8	2.3	2.1
9	3.3	3.0	3.2	2.3	e2.2	2.9	3.6	5.8	3.7	2.8	2.2	2.1
10	3.2	3.2	3.1	2.3	e2.3	2.8	3.7	5.6	3.6	2.7	2.2	2.1
11	3.2	3.1	3.0	2.2	e2.3	2.9	3.7	5.4	3.6	2.8	2.2	2.1
12	3.2	3.0	2.9	2.1	e2.3	3.0	3.7	5.3	3.6	2.8	2.2	2.1
13	3.2	3.2	3.0	2.1	e2.3	3.0	3.8	5.2	3.5	2.7	2.2	2.1
14	3.2	3.2	2.9	2.2	e2.3	3.0	3.8	5.3	3.6	2.7	2.1	2.1
15	3.2	3.1	3.0	2.2	e2.4	3.0	3.7	5.2	3.6	2.8	2.1	2.2
16	3.2	3.1	2.9	2.2	e2.4	3.2	3.7	5.1	3.5	2.6	2.1	2.2
17	3.1	3.2	2.8	2.2	e2.5	3.2	3.7	5.0	3.5	2.7	2.1	2.2
18	3.1	3.1	2.8	2.2	e2.5	3.1	3.8	4.8	3.5	2.6	2.1	2.2
19	3.0	3.0	2.9	2.2	e2.5	3.2	3.7	4.8	3.5	2.6	2.1	2.2
20	3.0	3.3	2.7	2.2	e2.6	3.4	3.7	4.8	3.4	2.6	2.1	2.1
21	3.0	3.3	2.8	2.2	e2.6	3.4	3.8	4.7	3.4	2.6	2.1	2.1
22	2.9	2.9	2.9	2.1	e2.6	3.4	3.8	4.6	3.4	2.6	2.1	2.1
23	2.7	2.9	2.9	2.1	e2.6	3.4	3.7	4.4	3.4	2.6	2.1	2.2
24	2.7	3.0	2.8	2.1	e2.6	3.4	3.7	4.4	3.3	2.6	2.1	2.2
25	2.8	3.2	2.7	2.2	e2.6	3.4	3.7	4.4	3.4	2.6	2.1	2.2
26	2.9	3.2	2.7	2.2	e2.6	3.4	3.9	4.4	3.3	2.6	2.1	2.2
27	2.8	3.2	2.7	2.2	e2.7	3.4	4.2	4.2	3.3	2.6	2.1	2.2
28	2.7	3.0	2.7	2.2	2.7	3.3	4.3	4.0	3.2	2.6	2.1	2.2
29	2.8	3.1	2.7	2.2	2.8	3.3	4.3	3.9	3.0	2.6	2.1	2.2
30	2.9	3.2	2.7	2.2	---	3.3	4.3	3.9	3.0	2.5	2.1	2.2
31	2.8	---	2.7	2.2	---	3.3	---	3.8	---	2.5	2.1	---
TOTAL	95.4	92.2	91.2	70.5	69.9	97.2	112.2	148.1	105.7	84.0	68.2	64.7
MEAN	3.08	3.07	2.94	2.27	2.41	3.14	3.74	4.78	3.52	2.71	2.20	2.16
MAX	3.4	3.3	3.4	2.7	2.8	3.4	4.3	5.8	3.9	3.2	2.5	2.2
MIN	2.7	2.8	2.7	2.1	2.1	2.8	3.3	3.8	3.0	2.5	2.1	2.1
AC-FT	189	183	181	140	139	193	223	294	210	167	135	128
†	.20	1.40	.50	.90	1.10	1.60	.20	.80	.80	2.10	.90	.40

e Estimated

† Precipitation total, in inches

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	5.27	4.77	4.26	3.85	3.79	4.24	6.45	13.2	16.7	10.8	7.18	5.78
MEAN	5.27	4.77	4.26	3.85	3.79	4.24	6.45	13.2	16.7	10.8	7.18	5.78
MAX	10.7	9.74	8.49	7.02	7.09	8.85	13.9	40.0	59.4	33.5	18.0	11.9
(WY)	1983	1983	1983	1984	1984	1983	1984	1983	1983	1983	1983	1983
MIN	2.34	2.40	2.24	2.27	2.00	1.94	2.34	2.48	3.52	2.71	2.20	2.16
(WY)	1991	1991	1991	1992	1991	1991	1991	1991	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1967 - 1992

ANNUAL TOTAL	1305.6	1099.3	7.20
ANNUAL MEAN	3.58	3.00	19.0
HIGHEST ANNUAL MEAN			2.84
LOWEST ANNUAL MEAN			1990
HIGHEST DAILY MEAN	15	Jun 8	79
LOWEST DAILY MEAN	1.7	Mar 7	1.7
ANNUAL SEVEN-DAY MINIMUM	1.8	Mar 6	1.8
INSTANTANEOUS PEAK FLOW			85
INSTANTANEOUS PEAK STAGE			3.11
ANNUAL RUNOFF (AC-FT)	2590	2180	5210
10 PERCENT EXCEEDS	5.9	3.8	14
50 PERCENT EXCEEDS	3.0	2.9	4.9
90 PERCENT EXCEEDS	2.0	2.1	2.8

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

103

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1966 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum daily, 11.0°C, on several days in May 1968, July 31 to September 9, 1969, and July 17, 1979; minimum daily, 2.5°C, December 9, 1972.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 05...	1140	3.0	325	8.5	13.0	7.5	1.5	9.2	100	--	--
MAY 19...	1230	4.9	--	8.6	21.5	11.5	2.4	9.4	110	K10	K21
JUL 07...	0930	2.8	304	8.1	14.5	8.0	1.2	8.8	97	K4	K16
AUG 27...	0845	2.2	331	8.3	25.5	7.0	2.0	9.5	101	26	13

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)
NOV 05...	180	55	11	1.8	0.1	0.60	174	6	201	6.1
MAY 19...	170	52	8.8	1.7	0.1	0.70	204	--	167	6.5
JUL 07...	170	51	10	1.6	0.0	0.50	200	--	164	6.6
AUG 27...	180	54	11	3.4	0.1	0.50	205	--	168	5.8

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
NOV 05...	1.0	0.10	6.8	176	175	0.24	<0.010	<0.010	0.130	0.110
MAY 19...	0.20	<0.10	6.5	176	177	0.24	<0.010	<0.010	0.120	0.110
JUL 07...	0.30	<0.10	6.5	175	175	0.24	<0.010	<0.010	0.120	0.110
AUG 27...	0.90	<0.10	6.7	173	184	0.24	<0.010	<0.010	0.130	0.140

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 05...	0.020	0.010	<0.20	0.010	<0.010	0.020	0.020	<10	40	<3
MAY 19...	0.020	0.020	<0.20	0.020	0.020	0.010	<0.010	<10	32	<3
JUL 07...	0.010	<0.010	<0.20	0.020	<0.010	0.010	<0.010	<10	38	<3
AUG 27...	<0.010	0.020	<0.20	0.020	<0.010	<0.010	<0.010	<10	39	<3

STEPTOE VALLEY BASIN

10244950 STEPTOE CREEK NEAR ELY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
NOV 05...	8	<4	2	<10	<1	<1	<1.0	82	<6	--
MAY 19...	6	<4	3	<10	3	<1	<1.0	87	<6	1.4
JUL 07...	3	<4	<1	<10	<1	<1	<1.0	82	<6	0.9
AUG 27...	7	<4	2	<10	<1	<1	<1.0	83	<6	--

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 05...	--	--	--	--	--	--	--	16	0.13	43
MAY 19...	<0.6	0.8	<0.6	0.6	<0.6	0.06	0.38	12	0.16	84
JUL 07...	<0.6	0.7	<0.6	<0.6	<0.6	0.07	0.40	18	0.14	64
AUG 27...	--	--	--	--	--	--	--	16	0.09	65

K: NON-IDEAL COLONY COUNT

JAKES VALLEY

105

10245445 ILLIPAH CREEK NEAR HAMILTON, NV

LOCATION.--Lat 39°19'07", long 115°23'39", in NE 1/4 NW 1/4 sec.25, T.16 N., R.58 E., White Pine County, Hydrologic Unit 16060007, in Humboldt National Forest, on left bank, 4.5 mi southwest of Illipah, 6.7 mi northeast of Hamilton, and 28 mi northwest of Ely.

DRAINAGE AREA.--31.5 mi².

PERIOD OF RECORD.--June 1983 to September 1987, March 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,840 ft above sea level, from topographic map. Prior to December 13, 1983, at present site at datum 1.0 ft higher.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.6 ft³/s, November 3, gage height, 1.15 ft; minimum daily, 0.27 ft³/s, December 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.92	e.27	e.41	e.54	.53	.80	.61	.60	.66	.53	.60
2	.61	.81	e.27	e.42	e.54	.52	.81	.59	.60	.63	.44	.63
3	.71	.89	e.29	e.44	e.52	.61	.83	.59	.64	.55	.40	.61
4	.72	.94	e.35	e.54	e.51	.68	.87	.58	.60	.50	.39	.60
5	.74	.85	e.40	e.53	e.50	.61	.90	.59	.59	.47	.40	.60
6	.76	.81	e.44	e.50	e.50	.65	.87	.60	.63	.46	.45	.60
7	.80	.80	e.45	e.45	e.50	.63	.78	.63	.69	.47	.51	.60
8	.79	.76	e.37	e.31	e.49	.62	e.74	.61	.67	.44	.35	.60
9	.80	.76	e.30	e.32	e.48	.64	e.73	.62	.67	.42	.36	.60
10	.82	.75	e.30	e.41	e.48	.63	e.74	.59	.63	.41	.41	.60
11	.86	.73	e.32	e.41	e.49	.66	e.74	.56	.61	.46	.50	.61
12	.91	.77	e.34	e.39	e.51	.68	e.74	.58	.59	.68	.54	.63
13	.91	.85	e.36	e.35	e.51	.69	e.74	.62	.61	.47	.55	.63
14	.93	.71	e.37	e.40	e.52	.69	e.75	.56	.73	.56	.56	.63
15	.98	.70	e.36	e.48	e.52	.68	.75	.57	.81	.48	.51	.63
16	.98	.65	e.35	e.49	e.52	.65	.70	.57	.82	.45	.51	.63
17	.99	e.56	e.35	e.49	e.51	.65	.63	.58	.66	.69	.54	.66
18	1.0	e.49	e.35	e.46	e.50	.61	.60	.56	.62	.63	.54	.66
19	1.0	e.45	e.38	e.44	e.49	.64	.61	.58	.62	.47	.53	.66
20	1.0	e.40	e.38	e.44	e.48	.68	.58	.58	.61	.47	.53	.66
21	1.0	e.35	e.39	e.45	e.48	.69	.60	.60	.60	.45	.53	.66
22	1.0	e.33	e.39	e.48	e.48	.69	.61	.61	.59	.44	.52	.66
23	1.1	e.33	e.40	e.49	e.49	.71	.57	.61	.58	.42	.54	.66
24	1.1	e.33	e.40	e.51	e.49	.73	.58	.64	.59	.42	.57	.67
25	1.0	e.34	e.42	e.53	e.48	.69	.56	.59	.61	.42	.57	.68
26	.94	e.35	e.43	e.54	e.48	.71	.58	.60	.66	.41	.57	.69
27	.78	e.36	e.43	e.55	e.47	.73	.56	.60	.58	.42	.57	.69
28	.57	e.36	e.43	e.56	e.46	.73	.59	.59	.55	.40	.57	.69
29	.55	e.34	e.42	e.56	e.46	.76	.57	.66	.57	.40	.57	.69
30	.68	e.31	e.41	e.56	---	.83	.58	.62	.57	.40	.59	.71
31	.36	---	e.41	e.55	---	.80	---	.59	---	.41	.60	---
TOTAL	25.99	18.00	11.53	14.46	14.40	20.82	20.71	18.48	18.90	14.96	15.75	19.24
MEAN	.84	.60	.37	.47	.50	.67	.69	.60	.63	.48	.51	.64
MAX	1.1	.94	.45	.56	.54	.83	.90	.66	.82	.69	.60	.71
MIN	.36	.31	.27	.31	.46	.52	.56	.56	.55	.40	.35	.60
AC-FT	52	36	23	29	29	41	41	37	37	30	31	38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1992, BY WATER YEAR (WY)

	3.94	3.54	3.48	3.28	3.48	3.56	3.43	3.37	3.98	3.96	4.08	3.90
MEAN	3.94	3.54	3.48	3.28	3.48	3.56	3.43	3.37	3.98	3.96	4.08	3.90
MAX	7.70	6.12	8.25	8.13	8.61	7.59	8.28	7.81	9.40	9.36	9.59	8.38
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1983	1983	1984	1983
MIN	.84	.60	.30	.47	.50	.67	.69	.60	.63	.48	.51	.63
(WY)	1992	1992	1991	1992	1992	1992	1992	1992	1992	1992	1992	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1983 - 1992	
ANNUAL TOTAL	239.76		213.24			
ANNUAL MEAN	.66		.58		3.67	
HIGHEST ANNUAL MEAN					8.11	
LOWEST ANNUAL MEAN					.58	
HIGHEST DAILY MEAN	1.1	Oct 23	1.1	Oct 23	46	Aug 22 1984
LOWEST DAILY MEAN	.27	Dec 1	.27	Dec 1	.10	Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.31	Nov 28	.31	Nov 28	.15	Dec 20 1990
INSTANTANEOUS PEAK FLOW			1.6	Nov 3	446	Aug 22 1984
INSTANTANEOUS PEAK STAGE			1.15	Nov 3	6.05	Aug 22 1984
ANNUAL RUNOFF (AC-FT)	476		423		2660	
10 PERCENT EXCEEDS	.88		.80		8.1	
50 PERCENT EXCEEDS	.68		.58		3.4	
90 PERCENT EXCEEDS	.39		.39		.57	

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 7.2 mi north of Belmont.

DRAINAGE AREA.--12.2 mi².

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage 7,560 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s, May 13, 14, gage height, 2.20 ft; minimum daily, 0.67 ft³/s, February 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.5	1.1	1.0	.84	1.0	1.5	9.2	11	4.4	e2.3	1.6
2	1.7	1.6	1.2	1.0	.84	1.0	1.5	9.4	12	3.9	e2.4	1.7
3	1.5	1.6	1.2	1.0	.81	1.0	1.7	9.7	11	3.9	e2.4	1.5
4	1.4	1.6	1.2	1.0	.79	1.0	1.9	10	11	3.6	e2.4	1.5
5	1.4	1.6	1.2	1.0	.79	1.0	1.9	11	10	3.5	e2.4	1.5
6	1.4	1.6	1.2	1.0	.79	1.0	1.8	13	9.2	3.4	e2.4	1.5
7	1.3	1.5	1.1	1.0	.81	1.0	1.9	16	8.7	3.5	e2.4	1.5
8	1.3	1.5	1.1	1.0	.84	1.1	1.9	19	8.7	3.4	e2.4	1.5
9	1.3	1.7	1.1	1.0	.84	1.1	2.0	19	7.8	3.3	e2.5	1.4
10	1.3	1.6	1.1	1.0	.84	1.1	2.0	19	7.6	3.2	e2.4	1.4
11	1.3	1.5	1.1	1.0	.84	1.1	2.1	19	7.6	3.6	e2.3	1.4
12	1.3	1.4	1.1	1.0	.85	1.1	2.2	19	6.6	3.8	e2.3	1.4
13	1.3	1.3	1.1	1.0	.84	1.1	2.2	22	6.4	3.5	e2.3	1.4
14	1.3	1.2	1.1	1.0	.84	1.1	2.3	25	6.2	3.4	e2.2	1.4
15	1.3	1.1	1.1	1.0	.81	1.1	2.3	25	6.3	3.7	e2.1	1.4
16	1.3	1.2	1.1	.98	.67	1.1	2.3	24	6.1	3.3	e2.0	1.4
17	1.4	1.2	1.1	.96	.77	1.2	2.4	23	5.9	3.2	e2.0	1.4
18	1.4	1.2	1.1	.96	.91	1.2	2.8	23	5.9	3.2	e2.0	1.5
19	1.4	.93	1.1	.96	.91	1.1	2.7	22	5.7	3.1	e1.9	1.6
20	1.4	1.1	1.1	.96	.90	1.1	2.7	20	5.2	2.9	e1.9	1.6
21	1.4	1.1	1.1	.96	.90	1.1	2.6	17	4.6	e2.7	e1.8	1.5
22	1.4	.95	1.1	.96	.94	1.1	2.6	16	4.4	e2.6	e1.7	1.5
23	1.4	.97	1.1	.96	.96	1.1	2.5	14	4.5	e2.6	e1.7	1.5
24	1.3	1.4	1.1	.96	.91	1.1	2.6	14	4.3	e2.7	e1.7	1.5
25	1.4	1.3	1.1	.94	.96	1.2	3.2	14	4.4	e2.7	e1.7	1.5
26	1.4	1.3	1.1	.84	.96	1.2	3.9	14	4.5	e2.7	e1.7	1.4
27	1.6	1.2	1.1	.84	1.0	1.3	4.9	15	4.2	e2.6	e1.7	1.4
28	1.5	1.0	1.0	.84	1.0	1.4	6.2	14	4.2	e2.5	1.7	1.4
29	1.4	1.0	1.0	.84	1.0	1.4	7.8	13	4.2	e2.4	1.7	1.4
30	1.4	1.0	1.0	.84	---	1.5	8.9	12	4.2	e2.3	1.7	1.4
31	1.4	---	1.0	.84	---	1.5	---	11	---	e2.3	1.7	---
TOTAL	43.3	39.15	34.2	29.64	25.16	35.4	87.3	511.3	202.4	97.9	63.8	44.1
MEAN	1.40	1.30	1.10	.96	.87	1.14	2.91	16.5	6.75	3.16	2.06	1.47
MAX	1.7	1.7	1.2	1.0	1.0	1.5	8.9	25	12	4.4	2.5	1.7
MIN	1.3	.93	1.0	.84	.67	1.0	1.5	9.2	4.2	2.3	1.7	1.4
AC-FT	86	78	68	59	50	70	173	1010	401	194	127	87

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	MEAN	2.33	1.84	1.51	1.35	1.28	1.61	3.34	16.8	21.1	6.52	3.52	2.30
MAX	4.63	3.06	2.47	2.00	1.90	2.71	9.46	43.7	70.6	17.1	10.7	6.41	
(WY)	1985	1985	1984	1984	1984	1983	1985	1983	1983	1983	1984	1984	
MIN	1.33	.99	1.00	.83	.75	.89	1.14	1.77	6.38	2.42	1.34	.83	
(WY)	1988	1986	1986	1987	1987	1987	1991	1991	1989	1985	1990	1987	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1977 - 1992

ANNUAL TOTAL	965.81	1213.65	
ANNUAL MEAN	2.65	3.32	
HIGHEST ANNUAL MEAN			5.30
LOWEST ANNUAL MEAN			13.8
HIGHEST DAILY MEAN	26 Jun 12	25 May 14	290 May 29 1983
LOWEST DAILY MEAN	.90 May 3	.67 Feb 16	.56 Nov 20 1977
ANNUAL SEVEN-DAY MINIMUM	.96 Feb 8	.80 Feb 11	.68 Jan 24 1987
INSTANTANEOUS PEAK FLOW		26 May 13	340 May 29 1983
INSTANTANEOUS PEAK STAGE		2.20 May 13	4.66 May 29 1983
ANNUAL RUNOFF (AC-FT)	1920	2410	3840
10 PERCENT EXCEEDS	5.1	9.2	13
50 PERCENT EXCEEDS	1.3	1.5	1.9
90 PERCENT EXCEEDS	.97	.96	1.1

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

107

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 mi².

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 sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1983; discharge, 119 ft³/s, gage height, 5.00 ft. Runoff from snowmelt.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5.5 ft³/s, May 16-18, gage height, 1.63 ft; minimum daily, 0.20 ft³/s, October 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.45	.42	.35	.33	.40	.56	2.9	2.9	1.5	.79	.41
2	.25	.48	.46	.36	.30	.40	.64	2.9	2.9	1.6	.73	.41
3	.25	.49	.46	.36	.30	.40	.71	2.9	2.9	1.5	.76	.35
4	.23	.52	.48	.36	.33	.40	.82	2.9	2.9	1.3	.70	.39
5	.21	.55	.48	.36	.33	.40	.86	3.0	2.6	1.3	.73	.40
6	.20	.57	.50	.36	.33	.40	.86	3.1	2.6	1.2	.77	.36
7	.21	.57	.52	.36	.33	.38	.92	3.1	2.6	1.2	.69	.30
8	.23	.57	.48	.36	.33	.36	.92	3.3	2.6	1.2	.61	.27
9	.22	.59	.44	.43	.33	.36	.97	3.8	2.6	1.1	.50	.25
10	.23	.62	.44	.44	.33	.36	1.0	4.5	2.5	1.0	.50	.23
11	.24	.62	.44	.41	.33	.36	1.1	5.0	2.3	1.3	.51	.22
12	.27	.58	.44	.37	.31	.36	1.2	5.3	2.1	1.8	.49	.23
13	.31	.57	.44	.38	.29	.38	1.2	5.3	2.1	1.4	.51	.24
14	.33	.57	.44	.37	.29	.40	1.2	5.3	2.1	1.2	.48	.21
15	.34	.53	.44	.39	.29	.40	1.2	5.3	2.2	1.4	.42	.21
16	.36	.44	.44	.40	.28	.43	1.2	5.4	2.4	1.3	.43	.22
17	.38	.48	.44	.40	.29	.44	1.2	5.5	2.4	1.2	.51	.22
18	.40	.48	.44	.36	.33	.44	1.7	5.5	2.2	1.2	.50	.52
19	.42	.43	.43	.42	.33	.41	1.5	5.3	2.2	1.0	.39	.49
20	.41	.54	.40	.47	.31	.44	1.4	5.3	2.0	1.0	.36	.39
21	.41	.57	.49	.40	.29	.44	1.5	4.7	2.0	.95	.35	.34
22	.44	.48	.49	.41	.31	.44	1.5	4.3	1.9	.94	.35	.31
23	.44	.38	.48	.38	.34	.44	1.4	4.3	1.7	.91	.40	.30
24	.44	.50	.48	.38	.34	.41	1.5	4.3	1.7	.87	.47	.31
25	.44	.52	.44	.40	.37	.40	1.9	4.3	1.7	.85	.44	.32
26	.46	.52	.44	.37	.36	.40	2.3	3.9	1.6	.81	.41	.34
27	.45	.52	.44	.33	.36	.42	2.5	3.7	1.6	.85	.36	.36
28	.44	.50	.44	.33	.36	.44	2.6	3.5	1.5	.80	.33	.35
29	.44	.41	.42	.29	.37	.45	2.9	3.2	1.4	.78	.39	.36
30	.43	.43	.37	.31	---	.48	2.9	2.9	1.4	.76	.50	.36
31	.39	---	.33	.33	---	.48	---	2.9	---	.76	.39	---
TOTAL	10.56	15.48	13.85	11.64	9.39	12.72	42.16	127.6	65.6	34.98	15.77	9.67
MEAN	.34	.52	.45	.38	.32	.41	1.41	4.12	2.19	1.13	.51	.32
MAX	.46	.62	.52	.47	.37	.48	2.9	5.5	2.9	1.8	.79	.52
MIN	.20	.38	.33	.29	.28	.36	.56	2.9	1.4	.76	.33	.21
AC-FT	21	31	27	23	19	25	84	253	130	69	31	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	MEAN	.78	.72	.60	.52	.52	.70	1.70	6.70	8.14	2.45	1.30	.84
MAX	1.49	1.20	1.11	.91	1.02	1.47	3.66	17.3	38.6	5.80	4.62	2.10	
(WY)	1984	1984	1984	1984	1988	1988	1985	1979	1978	1978	1983	1983	
MIN	.24	.21	.18	.16	.095	.27	.53	1.26	2.01	.66	.20	.082	
(WY)	1978	1978	1978	1991	1987	1991	1991	1991	1989	1990	1990	1990	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1978 - 1992

ANNUAL TOTAL	268.38	369.42	
ANNUAL MEAN	.74	1.01	
HIGHEST ANNUAL MEAN			2.06
LOWEST ANNUAL MEAN			5.82
HIGHEST DAILY MEAN	3.9 Jun 13	5.5 May 17	.66 1978
LOWEST DAILY MEAN	.13 Jan 22	.20 Oct 6	.04 1990
ANNUAL SEVEN-DAY MINIMUM	.15 Jan 1	.22 Oct 4	.04 Sep 12 1990
INSTANTANEOUS PEAK FLOW		5.5 May 16	.04 Sep 10 1990
INSTANTANEOUS PEAK STAGE		1.63 May 16	92 Jun 7 1978
ANNUAL RUNOFF (AC-FT)	532	733	3.55 Jun 7 1978
10 PERCENT EXCEEDS	1.9	2.9	1490
50 PERCENT EXCEEDS	.45	.45	4.2
90 PERCENT EXCEEDS	.20	.31	.82
			.30

MONITOR VALLEY-DIAMOND VALLEY SYSTEM

10245925 STONEBERGER CREEK NEAR AUSTIN, NV

LOCATION.--Lat 39°08'24", long 116°43'16", in SE 1/4 NE 1/4 sec.18, T.15 N., R.47 E., Nye County, Hydrologic Unit 16060005, on left bank, 2 mi southwest of Monitor Ranch, and 42 mi north of Belmont.

DRAINAGE AREA.--35.6 mi².

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,880 ft above sea level, from topographic map. Prior to October 1, 1990, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. Minimum daily for period of record occurred on several days September through December 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.78 ft³/s, July 17, gage height, 2.52 ft; minimum daily, 0.07 ft³/s, several days, October through December

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.08	.10	.10	.17	.22	.27	.28	.22	.20	.25	.31
2	.07	.08	.10	.10	.17	.22	.28	.29	.22	.20	.27	.31
3	.07	.08	.10	.10	.19	.22	.28	.31	.22	.20	.31	.31
4	.07	.08	.10	.10	.20	.22	.28	.31	.22	.22	.28	.31
5	.08	.08	.10	.10	.20	.22	.28	.31	.22	.22	.30	.31
6	.08	.08	.10	.10	.20	.22	.29	.31	.22	.24	.31	.31
7	.08	.08	.11	.10	.20	.22	.31	.28	.20	.25	.30	.31
8	.08	.08	.15	.10	.20	.25	.31	.28	.20	.25	.28	.31
9	.08	.08	.15	.10	.20	.25	.31	.28	.20	.25	.30	.31
10	.08	.08	.15	.10	.20	.25	.28	.30	.20	.25	.31	.31
11	.08	.07	.15	.10	.20	.25	.28	.30	.20	.25	.31	.31
12	.10	.07	.15	.10	.20	.25	.28	.28	.20	.25	.31	.31
13	.09	.07	.15	.10	.20	.25	.28	.28	.22	.25	.30	.31
14	.08	.07	.15	.10	.20	.25	.29	.25	.24	.25	.30	.31
15	.08	.07	.15	.12	.20	.25	.29	.25	.24	.25	.31	.31
16	.08	.07	.15	.13	.20	.25	.28	.25	.26	.25	.31	.31
17	.08	.11	.15	.13	.20	.25	.28	.25	.20	.32	.31	.31
18	.08	.13	.13	.13	.20	.25	.28	.27	.20	.25	.31	.32
19	.08	.11	.09	.13	.20	.25	.28	.28	.20	.22	.31	.27
20	.08	.10	.07	.14	.22	.25	.29	.28	.20	.22	.31	.25
21	.08	.10	.07	.15	.22	.25	.31	.28	.20	.24	.31	.25
22	.08	.10	.07	.14	.22	.25	.31	.27	.20	.25	.31	.25
23	.08	.10	.07	.15	.20	.25	.31	.25	.20	.25	.31	.25
24	.08	.10	.07	.15	.20	.25	.31	.25	.20	.25	.31	.25
25	.08	.10	.07	.15	.20	.25	.31	.25	.20	.25	.31	.25
26	.08	.10	.07	.15	.20	.25	.31	.25	.20	.25	.31	.25
27	.08	.10	.07	.15	.20	.25	.28	.25	.20	.25	.30	.25
28	.07	.10	.08	.15	.20	.25	.28	.25	.20	.25	.30	.25
29	.07	.10	.08	.16	.21	.25	.28	.25	.20	.25	.31	.25
30	.07	.10	.08	.17	---	.25	.28	.25	.20	.25	.31	.25
31	.07	---	.08	.17	---	.25	---	.23	---	.25	.31	---
TOTAL	2.43	2.67	3.31	3.87	5.80	7.54	8.70	8.42	6.28	7.53	9.38	8.61
MEAN	.078	.089	.11	.12	.20	.24	.29	.27	.21	.24	.30	.29
MAX	.10	.13	.15	.17	.22	.25	.31	.31	.26	.32	.31	.32
MIN	.07	.07	.07	.10	.17	.22	.27	.23	.20	.20	.25	.25
AC-FT	4.8	5.3	6.6	7.7	12	15	17	17	12	15	19	17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	MEAN	.59	.60	.57	.55	.60	.74	1.46	6.20	6.83	1.97	1.09	.69
MAX	2.10	2.12	1.97	1.69	1.74	1.84	4.59	33.9	50.4	9.96	4.90	2.72	
(WY)	1984	1984	1984	1984	1984	1984	1984	1983	1983	1983	1983	1984	
MIN	.078	.089	.11	.12	.17	.22	.21	.19	.16	.13	.16	.099	
(WY)	1992	1992	1992	1992	1990	1990	1990	1991	1991	1990	1990	1991	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1978 - 1992
ANNUAL TOTAL	81.29	74.54	
ANNUAL MEAN	.22	.20	1.83
HIGHEST ANNUAL MEAN			9.22
LOWEST ANNUAL MEAN			.19
HIGHEST DAILY MEAN	21	Aug 14	104
LOWEST DAILY MEAN	.07	Sep 29	.07
ANNUAL SEVEN-DAY MINIMUM	.07	Dec 20	.07
INSTANTANEOUS PEAK FLOW			.78
INSTANTANEOUS PEAK STAGE			2.52
ANNUAL RUNOFF (AC-FT)	161	148	1320
10 PERCENT EXCEEDS	.25	.31	3.2
50 PERCENT EXCEEDS	.15	.22	.54
90 PERCENT EXCEEDS	.08	.08	.17

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

109

10246846 LITTLE CURRANT CREEK NEAR CURRANT, NV

LOCATION.--Lat 38°50'50", long 115°22'00", in NW 1/4 SW 1/4 sec. 32, T.12 N., R.59 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on right bank, 0.2 mi upstream from reservoir diversion, 2.5 mi upstream from mouth, and 9 mi northeast of Currant.

DRAINAGE AREA.--12.9 mi².

PERIOD OF RECORD.--October 1964 to September 1981, May 1983 to September 1986, March 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,700 ft above sea level, from topographic map.

REMARKS.--Records fair. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 17	0600	*4.7	*1.35				
No flow many days.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	e.00	.00	.00	2.7	.91	.08	.00	.00
2	.00	.00	.00	.00	e.00	.00	.00	3.0	.84	.08	.00	.00
3	.00	.00	.00	.00	e.00	.00	.00	3.1	.77	.08	.00	.00
4	.00	.00	.00	.00	e.00	.00	.00	3.0	.69	.06	.00	.00
5	.00	.00	.00	.00	e.00	.00	.00	3.0	.64	.04	.00	.00
6	.00	.00	.00	.00	e.00	.00	.00	3.3	.66	.01	.00	.00
7	.00	.00	.00	.00	e.00	.00	.00	3.4	.54	.00	.00	.00
8	.00	.00	.00	.00	e.00	.00	.02	3.7	.48	.00	.00	.00
9	.00	.00	.00	.00	e.00	.00	.06	4.1	.41	.00	.00	.00
10	.00	.00	.00	.00	e.00	.00	.24	3.8	.40	.00	.00	.00
11	.00	.00	.00	.00	e.00	.00	.39	4.0	.40	.04	.00	.00
12	.00	.00	.00	.00	e.00	.00	.58	4.0	.39	.00	.00	.00
13	.00	.00	.00	.00	e.00	.00	.72	3.8	.39	.00	.00	.00
14	.00	.00	.00	.00	e.00	.00	1.1	3.8	.40	.00	.00	.00
15	.00	.00	.00	.00	e.00	.00	1.5	4.0	.39	.01	.00	.00
16	.00	.00	.00	e.00	e.00	.00	2.0	4.1	.38	.01	.00	.00
17	.00	.00	.00	e.00	e.00	.00	2.1	4.2	.37	.01	.00	.00
18	.00	.00	.00	e.00	e.00	.00	2.2	4.0	.36	.00	.00	.00
19	.00	.00	.00	e.00	e.00	.00	2.3	3.8	.34	.01	.00	.00
20	.00	.00	.00	e.00	e.00	.00	2.4	3.5	.28	.00	.00	.00
21	.00	.00	.00	e.00	e.00	.00	2.4	3.4	.21	.00	.00	.00
22	.00	.00	.00	e.00	e.00	.00	2.3	2.9	.19	.00	.00	.00
23	.00	.00	.00	e.00	e.00	.00	2.2	2.5	.13	.00	.00	.00
24	.00	.00	.00	e.00	e.00	.00	2.0	2.2	.12	.00	.00	.00
25	.00	.00	.00	e.00	e.00	.00	1.9	1.9	.13	.00	.00	.00
26	.00	.00	.00	e.00	e.00	.00	1.8	1.7	.13	.00	.00	.00
27	.00	.00	.00	e.00	.00	.00	1.8	1.5	.12	.00	.00	.00
28	.00	.00	.00	e.00	.00	.00	2.0	1.5	.11	.00	.00	.00
29	.00	.00	.00	e.00	.00	.00	2.2	1.4	.09	.00	.00	.00
30	.00	.00	.00	e.00	---	.00	2.4	1.2	.07	.00	.00	.00
31	.00	---	.00	e.00	---	.00	---	1.0	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	36.61	93.5	11.34	0.43	0.00	0.00
MEAN	.0000	.0000	.0000	.0000	.0000	.0000	1.22	3.02	.38	.014	.0000	.0000
MAX	.00	.00	.00	.00	.00	.00	2.4	4.2	.91	.08	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	1.0	.07	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	73	185	22	.9	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	.99	.73	.88	.66	.76	2.46	7.34	13.1	9.43	3.26	1.65	1.21																
MAX	4.23	2.84	6.26	2.94	3.56	12.6	33.4	41.2	35.6	11.8	7.56	5.25																
(WY)	1984	1984	1967	1984	1984	1986	1969	1983	1983	1983	1983	1983																
MIN	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.22	.38	.014	.0000	.0000																
(WY)	1965	1965	1965	1965	1965	1965	1991	1991	1992	1992	1966	1966																

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1965 - 1992
ANNUAL TOTAL	78.24	141.88	
ANNUAL MEAN	.21	.39	3.40
HIGHEST ANNUAL MEAN			9.65
LOWEST ANNUAL MEAN			.21
HIGHEST DAILY MEAN	3.9 Jun 9	4.2 May 17	75 May 30 1983
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1964
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1964
INSTANTANEOUS PEAK FLOW		4.7 May 17	366 Dec 6 1966
INSTANTANEOUS PEAK STAGE		1.35 May 17	4.10 Dec 6 1966
ANNUAL RUNOFF (AC-FT)	155	281	2460
10 PERCENT EXCEEDS	.39	1.9	10
50 PERCENT EXCEEDS	.00	.00	.95
90 PERCENT EXCEEDS	.00	.00	.00

HOT CREEK AND RAILROAD (NORTHERN PART) VALLEYS

10247200 BIG CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°11'13", long 115°45'18", in NW 1/4 SE 1/4 sec.23, T.4 N., R.55 E., Nye County, Hydrologic Unit 16060012, in Humboldt National Forest, on left bank, 0.5 mi upstream from abandoned Big Creek Ranch, and 39.8 mi southeast of Warm Springs.

DRAINAGE AREA.--12 mi².

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,630 ft above sea level, from topographic map. Prior to July 16, 1991 at datum 3.25 ft higher.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s, May 3, gage height, 4.66 ft, from rating curve extended above 2.0 ft³/s, on basis of slope-conveyance study of peak flow; minimum daily, 0.20 ft³/s, September 21-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.34	.38	.48	.48	.61	4.3	16	3.4	1.1	.65	.25
2	.35	.33	.38	.48	.48	.61	4.8	14	3.2	1.2	.56	.25
3	.33	.35	.38	.48	.48	.65	5.1	12	3.0	1.1	.54	.25
4	.33	.33	.35	.48	.48	2.1	5.5	13	2.8	1.0	.54	.25
5	.31	.31	.37	.51	.48	4.1	6.0	12	2.7	1.0	.53	.25
6	.32	.31	.38	.51	.47	3.8	6.1	12	2.5	.97	.51	.25
7	.33	.31	.38	.48	.47	3.6	7.1	11	2.7	.94	.50	.25
8	.33	.29	.38	.48	.48	3.4	6.9	11	2.7	.94	.47	.25
9	.35	.31	.38	.48	.48	3.3	8.2	11	2.4	.94	.45	.25
10	.35	.36	.39	.48	.50	3.3	10	12	2.2	.90	e.40	.24
11	.35	.40	.43	.48	.51	3.3	10	9.3	2.2	.95	e.38	.24
12	.34	.41	.43	.48	.54	3.5	11	11	2.0	1.0	e.34	.24
13	.33	.43	.43	.48	.54	4.3	10	10	2.2	.93	e.32	.24
14	.34	.43	.43	.48	.54	5.4	11	10	2.1	.89	.31	.23
15	.34	.47	.43	.48	.58	5.4	10	8.9	2.0	.89	.31	.22
16	.35	.48	.40	.48	.58	5.2	13	8.4	2.0	.82	.31	.22
17	.35	.48	.40	.48	.55	5.0	12	8.1	1.9	.80	.31	.22
18	.36	.46	.40	.48	.54	4.7	11	7.6	1.7	.84	.30	.22
19	.38	.46	.49	.48	.54	4.4	9.1	7.5	1.6	.80	.27	.22
20	.37	.45	.51	.48	.54	4.2	8.7	7.1	1.5	.79	.27	.22
21	.33	.43	.51	.48	.54	4.2	6.3	7.0	1.4	.74	.27	.20
22	.27	.43	.51	.48	.54	4.1	6.4	6.5	1.4	.72	.27	.20
23	.24	.43	.51	.48	.57	4.0	6.0	5.8	1.3	.71	.27	.20
24	.27	.41	.51	.48	.58	3.9	5.7	5.2	1.3	.68	.27	.20
25	.29	.38	.51	.48	.58	3.8	5.9	4.6	1.2	.68	.27	.20
26	.27	.38	.50	.48	.58	3.8	6.3	4.6	1.2	.68	.27	.20
27	.30	.37	.48	.46	.61	3.8	8.5	4.5	1.1	.65	.27	.20
28	.32	.38	.48	.46	.61	3.8	12	4.2	1.1	.63	.27	.20
29	.34	.40	.48	.46	.61	3.8	13	4.1	1.1	.61	.27	.20
30	.35	.39	.48	.46	---	3.8	14	4.1	1.0	.61	.25	.20
31	.35	---	.48	.48	---	4.0	---	3.6	---	.62	.25	---
TOTAL	10.19	11.71	13.57	14.86	15.48	113.87	253.9	266.1	58.9	26.13	11.20	6.76
MEAN	.33	.39	.44	.48	.53	3.67	8.46	8.58	1.96	.84	.36	.23
MAX	.38	.48	.51	.51	.61	5.4	14	16	3.4	1.2	.65	.25
MIN	.24	.29	.35	.46	.47	.61	4.3	3.6	1.0	.61	.25	.20
AC-FT	20	23	27	29	31	226	504	528	117	52	22	13

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1992	1992	1992	1992	1992	1992	1991	1992	1991	1992
MEAN	.33	.39	.44	.48	.53	3.67	4.54	4.88	3.06	.80	.39	.27
MAX	.33	.39	.44	.48	.53	3.67	8.46	8.58	4.16	.84	.42	.31
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1991	1992	1991	1991
MIN	.33	.39	.44	.48	.53	3.67	.62	1.17	1.96	.77	.36	.23
(WY)	1992	1992	1992	1992	1992	1992	1991	1991	1992	1991	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	802.67		
ANNUAL MEAN	2.19	2.19	
HIGHEST ANNUAL MEAN		2.19	1992
LOWEST ANNUAL MEAN		2.19	1992
HIGHEST DAILY MEAN	16	May 1	1992
LOWEST DAILY MEAN	.20	Sep 21	1991
ANNUAL SEVEN-DAY MINIMUM	.20	Sep 21	1991
INSTANTANEOUS PEAK FLOW	22	May 3	1992
INSTANTANEOUS PEAK STAGE	4.66	May 3	1992
ANNUAL RUNOFF (AC-FT)	1590		1590
10 PERCENT EXCEEDS	7.1		6.0
50 PERCENT EXCEEDS	.51		.56
90 PERCENT EXCEEDS	.27		.27

STONE CABIN VALLEY

111

10249190 WILLOW CREEK NEAR WARM SPRINGS, NV

LOCATION.--Lat 38°34'35", long 116°35'05", in SE 1/4 SE 1/4 sec.6, T.8 N., R.43 E., Nye County, Hydrologic Unit 16060011, in Toiyabe National Forest, on left bank, about 3 mi north of Toiyabe National Forest boundary, and 30 mi northwest of Warm Springs.

DRAINAGE AREA.--16.4 mi².

PERIOD OF RECORD.--October 1977 to September 1992 (discontinued).

REVISED RECORDS.--1986: daily discharges.

GAGE.--Water-stage recorder. Elevation of gage is 6,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. No flow occurs many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6.3 ft³/s, April 11, gage height, 1.76 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	2.7	1.7	.31	.10	.00	.00
2	.00	.00	.00	.00	.00	.00	3.5	1.7	.28	.02	.00	.00
3	.00	.00	.00	.00	.00	.00	4.0	1.6	.25	.01	.00	.00
4	.00	.00	.00	.00	.00	.00	4.6	1.4	.22	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	4.3	1.4	.19	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	3.8	1.3	.21	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	3.6	1.3	.30	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	4.0	1.3	.26	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	3.6	1.2	.20	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	3.5	1.1	.16	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	4.0	.93	.12	.03	.00	.00
12	.00	.00	.00	.00	.00	.00	3.3	.88	.12	.51	.00	.00
13	.00	.00	.00	.00	.00	.00	3.0	.84	.19	.06	.00	.00
14	.00	.00	.00	.00	.00	.01	2.9	.79	.24	.03	.00	.00
15	.00	.00	.00	.00	.00	.01	2.8	.75	.29	.03	.00	.00
16	.00	.00	.00	.00	.00	.02	2.8	.71	.35	.06	.00	.00
17	.00	.00	.00	.00	.00	.02	2.6	.62	.19	.01	.00	.00
18	.00	.00	.00	.00	.00	.03	2.8	.58	.13	.01	.00	.00
19	.00	.00	.00	.00	.00	.09	2.6	.58	.07	.00	.00	.00
20	.00	.00	.00	.00	.00	.19	2.3	.55	.03	.00	.00	.00
21	.00	.00	.00	.00	.00	.21	2.3	.50	.02	.00	.00	.00
22	.00	.00	.00	.00	.00	.27	2.4	.50	.01	.00	.00	.00
23	.00	.00	.00	.00	.00	.40	2.1	.47	.01	.00	.00	.00
24	.00	.00	.00	.00	.00	.56	1.9	.46	.01	.00	.00	.00
25	.00	.00	.00	.00	.00	.80	1.9	.45	.01	.00	.00	.00
26	.00	.00	.00	.00	.00	1.1	1.8	.43	.01	.00	.00	.00
27	.00	.00	.00	.00	.00	1.2	1.8	.40	.01	.00	.00	.00
28	.00	.00	.00	.00	.00	1.4	1.7	.37	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	1.6	1.7	.40	.00	.00	.00	.00
30	.00	.00	.00	.00	---	1.9	1.7	.41	.00	.00	.00	.00
31	.00	---	.00	.00	---	2.2	---	.37	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	12.01	86.0	25.99	4.19	0.87	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.39	2.87	.84	.14	.028	.000	.000
MAX	.00	.00	.00	.00	.00	2.2	4.6	1.7	.35	.51	.00	.00
MIN	.00	.00	.00	.00	.00	.00	1.7	.37	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	24	171	52	8.3	1.7	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	1978	1978	1978	1978	1982	1991	1991	1991	1991	1986	1981	1981
MEAN	.10	.15	.086	.095	.23	1.67	5.03	4.74	1.34	.22	.19	.11
MAX	.76	.70	.53	.63	.92	11.2	32.6	32.9	10.2	1.30	1.12	.68
(WY)	1984	1988	1984	1984	1984	1978	1978	1983	1983	1983	1983	1984
MIN	.000	.000	.000	.000	.000	.000	.011	.015	.000	.000	.000	.000
(WY)	1978	1978	1978	1978	1982	1991	1991	1991	1991	1986	1981	1981

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1978 - 1992

ANNUAL TOTAL	2.34	129.06	
ANNUAL MEAN	.006	.35	
HIGHEST ANNUAL MEAN			1.16
LOWEST ANNUAL MEAN			5.91
HIGHEST DAILY MEAN	.88	Jul 23	56
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			92
INSTANTANEOUS PEAK STAGE			2.70
ANNUAL RUNOFF (AC-FT)	4.6	256	843
10 PERCENT EXCEEDS	.00	1.5	1.7
50 PERCENT EXCEEDS	.00	.00	.06
90 PERCENT EXCEEDS	.00	.00	.00

BIG SMOKY VALLEY (NORTHERN PART)

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 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above sea level, from topographic map. August 22, 1975 to June 25, 1985 at site 40 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. 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 CURRENT YEAR.--Maximum discharge, 8.8 ft³/s, October 1, gage height, 1.67 ft; minimum daily, 3.6 ft³/s, several days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	6.5	6.2	5.3	4.2	4.5	4.7	6.5	6.8	6.5	5.0	3.8
2	8.4	6.5	6.2	5.2	4.2	4.5	4.7	6.7	6.8	6.5	5.0	3.8
3	8.4	6.5	6.2	5.0	4.3	4.6	4.7	6.8	6.8	6.4	5.0	3.8
4	8.3	6.5	6.2	5.0	4.5	5.0	4.9	6.8	6.7	6.2	5.0	4.1
5	8.0	6.6	6.2	4.9	4.5	5.0	5.0	7.5	6.5	6.2	5.0	4.0
6	8.0	6.8	6.1	4.5	4.5	5.0	5.1	7.6	6.8	6.2	5.0	4.0
7	8.0	6.8	5.8	4.5	4.5	4.7	5.3	7.8	6.8	6.2	4.9	3.8
8	8.0	6.8	5.8	4.5	4.5	4.7	5.3	7.6	6.5	6.2	4.7	3.8
9	8.0	7.1	5.5	4.5	4.4	4.7	5.3	7.6	6.5	6.5	4.7	3.8
10	8.0	7.2	5.5	4.5	4.4	4.7	5.3	7.6	6.5	6.5	4.7	3.8
11	7.8	7.2	5.5	4.5	4.5	4.9	5.3	7.6	6.5	6.5	4.7	3.8
12	7.6	7.2	5.5	4.5	4.5	5.0	5.4	7.6	6.5	6.5	4.7	3.8
13	7.6	7.1	5.5	4.5	4.5	5.0	5.3	7.6	6.5	6.5	4.7	3.8
14	7.6	6.8	5.5	4.5	4.2	5.0	5.3	7.6	6.5	6.3	4.6	3.8
15	7.6	6.8	5.5	4.5	4.2	5.0	5.4	7.6	6.5	6.2	4.5	3.8
16	7.6	6.5	5.5	4.5	4.1	4.9	5.5	7.9	6.5	6.1	4.5	3.7
17	7.6	6.5	5.5	4.5	4.0	4.7	5.5	8.0	6.8	5.8	4.5	3.6
18	7.4	6.5	5.3	4.5	4.0	4.7	5.5	8.0	6.6	5.8	4.5	3.7
19	7.2	6.5	5.3	4.5	4.0	5.3	5.5	8.0	6.3	5.8	4.5	3.8
20	7.2	6.5	5.3	4.5	4.0	5.3	5.5	7.3	6.2	5.8	4.5	3.8
21	7.2	6.5	5.3	4.5	4.0	5.3	5.5	6.5	6.2	5.8	4.4	3.8
22	7.2	6.5	5.3	4.5	4.2	5.3	5.7	6.7	6.2	5.7	4.2	3.8
23	7.2	6.5	5.3	4.5	4.3	5.3	5.8	6.8	6.2	5.5	4.2	3.6
24	7.2	6.5	5.3	4.5	4.5	5.3	5.8	6.8	6.2	5.5	4.1	3.6
25	6.9	6.5	5.3	4.5	4.5	5.3	5.8	6.9	6.2	5.3	4.0	3.6
26	6.8	6.4	5.3	4.5	4.4	5.1	6.0	7.2	6.2	5.3	4.0	3.6
27	6.8	6.2	5.3	4.5	4.5	5.4	6.2	7.2	6.2	5.3	4.0	3.6
28	6.8	6.2	5.3	4.5	4.5	5.3	6.2	7.2	6.5	5.3	4.0	3.6
29	6.8	6.2	5.3	4.3	4.5	5.3	6.2	6.9	6.5	5.2	4.0	3.6
30	6.8	6.2	5.3	4.2	---	5.3	6.4	6.8	6.5	5.0	4.0	3.6
31	6.8	---	5.3	4.2	---	5.0	---	6.8	---	5.0	3.8	---
TOTAL	233.4	198.6	172.4	141.6	125.4	155.1	164.1	225.5	194.5	183.6	139.4	112.7
MEAN	7.53	6.62	5.56	4.57	4.32	5.00	5.47	7.27	6.48	5.92	4.50	3.76
MAX	8.6	7.2	6.2	5.3	4.5	5.4	6.4	8.0	6.8	6.5	5.0	4.1
MIN	6.8	6.2	5.3	4.2	4.0	4.5	4.7	6.5	6.2	5.0	3.8	3.6
AC-FT	463	394	342	281	249	308	325	447	386	364	276	224

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	MEAN	6.48	5.78	5.12	4.73	4.57	5.10	7.88	18.2	21.8	13.5	9.40	7.48
MAX	12.9	12.7	10.3	9.62	8.86	11.6	45.3	106	73.7	30.8	19.6	13.6	
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1975	1983	1984	1984	
MIN	3.17	3.14	2.85	2.64	2.75	2.96	2.99	4.71	6.10	5.92	4.24	3.76	
(WY)	1967	1967	1967	1967	1982	1967	1967	1968	1981	1992	1972	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1967 - 1992

ANNUAL TOTAL	2748.7	2046.3	9.19
ANNUAL MEAN	7.53	5.59	29.3
HIGHEST ANNUAL MEAN			1984
LOWEST ANNUAL MEAN			4.65
HIGHEST DAILY MEAN	18	8.6	240
LOWEST DAILY MEAN	3.7	3.6	1.7
ANNUAL SEVEN-DAY MINIMUM	3.7	3.6	2.0
INSTANTANEOUS PEAK FLOW		8.8	385
INSTANTANEOUS PEAK STAGE		1.70	3.58
INSTANTANEOUS LOW FLOW		3.4	1.4
ANNUAL RUNOFF (AC-FT)	5450	4060	6660
10 PERCENT EXCEEDS	12	7.2	14
50 PERCENT EXCEEDS	6.5	5.3	6.2
90 PERCENT EXCEEDS	4.1	4.0	3.7

BIG SMOKY VALLEY (NORTHERN PART)

113

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV
(Hydrologic Bench-Mark 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 mi², approximately.

WATER-DISCHARGE RECORDS

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 sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	0500	*33	*2.15	No other peak greater than base discharge.			
Minimum daily, 0.55 ft ³ /s, Sept. 12.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	e1.0	e1.6	1.8	5.2	5.5	24	10	4.2	e1.5	1.4
2	1.3	1.7	1.2	e1.7	e1.7	5.2	5.6	23	9.8	4.1	e1.5	1.2
3	1.2	1.7	1.4	1.3	e1.7	5.2	6.0	22	9.8	3.7	e1.6	1.1
4	1.1	2.0	1.6	1.1	e1.7	5.3	6.6	21	9.5	3.4	e1.5	2.4
5	1.1	2.0	1.5	1.2	e1.6	5.2	7.3	22	9.2	3.2	e1.5	1.8
6	.99	1.8	e1.4	1.1	e1.8	5.3	7.4	24	8.9	2.9	e1.4	1.5
7	.98	1.8	e1.3	1.2	e1.8	5.2	7.6	26	8.2	3.0	e1.4	1.3
8	1.0	1.8	e1.3	e1.2	e1.7	5.3	7.9	29	7.9	2.8	e1.3	1.0
9	1.1	2.0	e1.2	e1.3	e1.6	5.0	8.1	31	7.5	2.6	e1.3	.85
10	1.2	2.0	e1.3	e1.8	e1.5	4.6	8.6	31	7.1	2.4	e1.4	.71
11	1.2	1.9	1.4	e1.4	e1.7	4.5	9.7	28	6.8	2.7	e1.5	.57
12	1.3	1.8	1.5	e1.2	e1.8	4.4	11	26	6.7	3.3	e1.4	.55
13	1.4	1.8	e1.8	e1.6	1.9	4.5	11	26	6.6	3.1	e1.4	.64
14	1.4	1.9	e2.0	e1.4	1.8	4.7	11	25	6.9	2.9	e1.3	.66
15	1.5	1.8	e2.0	e1.5	1.9	4.7	12	25	7.2	2.8	e1.2	.68
16	1.5	1.8	e2.0	e1.9	2.1	4.7	12	23	7.1	2.4	e1.1	.68
17	1.5	1.8	e1.9	e1.5	1.9	4.8	12	22	6.4	2.2	e1.1	.65
18	1.6	1.8	e2.0	e1.4	2.1	4.6	14	20	5.8	2.2	e1.2	1.3
19	1.6	1.5	e2.0	e1.5	2.1	3.9	14	19	5.6	e2.1	e1.2	1.3
20	1.6	1.6	e2.0	e1.7	2.5	3.4	13	18	5.5	e2.0	e1.1	1.1
21	1.6	1.7	e2.0	e1.6	3.3	3.3	12	17	5.2	e2.0	e1.0	1.0
22	1.6	1.7	e1.9	e1.8	5.1	3.4	12	16	4.8	e2.0	e1.0	.89
23	1.6	1.5	e1.8	e2.0	5.3	3.4	12	14	4.6	e1.9	e.98	.83
24	1.6	1.6	e1.9	e2.2	4.7	3.3	11	13	4.6	e1.8	e.94	.79
25	1.7	1.5	e2.0	e2.2	4.7	3.3	12	13	5.1	e1.9	e.92	1.0
26	1.8	1.5	e2.1	e1.8	4.8	3.4	13	13	5.1	e1.9	e.84	1.1
27	1.7	1.6	e2.0	e2.0	5.0	3.7	15	13	4.4	e1.8	.82	1.0
28	1.6	1.5	e1.9	e1.7	5.3	3.9	18	13	4.0	e1.8	.71	1.0
29	1.7	e1.2	e1.7	e2.0	5.4	4.2	20	12	4.1	e1.7	.79	.95
30	1.6	e1.1	e1.6	e2.3	---	4.7	22	11	4.2	e1.6	1.2	.97
31	1.8	---	e1.5	e2.2	---	5.2	---	11	---	e1.6	1.3	---
TOTAL	44.27	51.1	52.2	50.4	80.3	137.5	337.3	631	198.6	78.0	37.40	30.92
MEAN	1.43	1.70	1.68	1.63	2.77	4.44	11.2	20.4	6.62	2.52	1.21	1.03
MAX	1.8	2.0	2.1	2.3	5.4	5.3	22	31	10	4.2	1.6	2.4
MIN	.98	1.1	1.0	1.1	1.5	3.3	5.5	11	4.0	1.6	.71	.55
AC-FT	88	101	104	100	159	273	669	1250	394	155	74	61

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1965	2.48	5.37	1984	1.25	1987
1966	2.66	5.58	1984	1.37	1991
1967	2.39	5.80	1984	1.06	1991
1968	2.31	6.25	1984	.92	1991
1969	2.56	5.66	1984	1.17	1991
1970	4.35	10.2	1983	1.74	1991
1971	9.10	22.3	1969	3.31	1970
1972	24.5	92.0	1983	4.03	1990
1973	16.8	72.3	1983	4.17	1990
1974	4.90	15.2	1983	1.37	1966
1975	2.70	11.1	1983	.96	1987
1976	2.28	6.24	1983	.51	1987

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1965 - 1992
ANNUAL TOTAL	1200.17	1728.99	
ANNUAL MEAN	3.29	4.72	6.43
HIGHEST ANNUAL MEAN			20.1
LOWEST ANNUAL MEAN			2.40
HIGHEST DAILY MEAN	20 Jun 6	31 May 9	338 May 29 1983
LOWEST DAILY MEAN	.35 Aug 27	.55 Sep 12	.35 Aug 27 1991
ANNUAL SEVEN-DAY MINIMUM	.41 Aug 26	.63 Sep 11	.40 Sep 19 1987
INSTANTANEOUS PEAK FLOW		33 May 10	510 May 29 1983
INSTANTANEOUS PEAK STAGE		2.15 May 10	4.39 May 29 1983
INSTANTANEOUS LOW FLOW		.43 Sep 12	.11 Sep 4 1972
ANNUAL RUNOFF (AC-FT)	2380	3430	4660
10 PERCENT EXCEEDS	8.6	12	14
50 PERCENT EXCEEDS	1.7	1.9	2.9
90 PERCENT EXCEEDS	.85	1.1	1.4

BIG SMOKY VALLEY (NORTHERN PART)

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: May 1966 to September 1968, January 1970 to September 1977, September 1978 to September 1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum daily, 18.0°C, July 24, 1979; minimum daily, freezing point on several days in many years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED CENT SATUR- ATION	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 19...	1300	1.5	117	7.6	0.5	2.0	0.60	10.9	98	K1	K3
FEB 13...	1010	1.8	116	8.0	1.0	1.0	0.60	10.2	92	<1	K3
MAY 19...	1145	20	80	7.8	20.0	9.0	2.5	8.9	97	K2	K23
AUG 26...	1045	1.1	116	8.1	20.0	10.0	0.60	8.7	94	<2	E4

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 19...	48	17	1.4	6.0	0.4	0.80	66	54	5.6	2.2	0.20
FEB 13...	48	17	1.4	5.9	0.4	0.70	67	55	6.7	1.1	0.10
MAY 19...	31	11	0.86	5.2	0.4	0.70	41	34	3.0	1.8	0.20
AUG 26...	51	18	1.4	6.5	0.4	0.80	70	58	4.9	1.9	0.20

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 19...	19	80	85	0.11	<0.010	<0.010	<0.050	<0.050	0.020	0.010
FEB 13...	18	82	84	0.11	<0.010	<0.010	<0.050	<0.050	0.010	0.010
MAY 19...	17	68	60	0.09	<0.010	<0.010	<0.050	<0.050	0.010	0.040
AUG 26...	21	76	89	0.10	<0.010	<0.010	<0.050	<0.050	0.010	0.010

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHOS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOS DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHOS DIS- SOLVED (MG/L AS PO4)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)
NOV 19...	<0.20	<0.010	--	<0.010	<0.010	0.010	0.03	<10	5	<3
FEB 13...	<0.20	<0.010	--	<0.010	<0.010	<0.010	--	10	5	<3
MAY 19...	<0.20	0.030	--	0.030	<0.010	<0.010	--	160	4	<3
AUG 26...	<0.20	0.020	0.06	<0.010	0.020	0.020	0.06	<10	4	<3

BIG SMOKY VALLEY (NORTHERN PART)

115

10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)
NOV 19...	7	5	<1	<10	<1	<1	<1.0	100	<6	--
FEB 13...	13	9	2	<10	<1	<1	<1.0	99	<6	--
MAY 19...	62	6	2	<10	1	<1	<1.0	69	<6	1.4
AUG 26...	3	6	1	<10	<1	<1	<1.0	110	<6	2.0

DATE	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 19...	--	--	--	--	--	--	--	2	0.01	91
FEB 13...	--	--	--	--	--	--	--	5	0.02	79
MAY 19...	1.3	0.7	2.5	0.7	2.4	<0.02	0.42	7	0.38	89
AUG 26...	<0.6	1.5	0.7	1.3	0.7	0.03	1.7	1	0.00	89

K: NON-IDEAL COLONY COUNT

PAHRUMP VALLEY

116

10251890 PEAK SPRING CANYON CREEK NEAR CHARLESTON PEAK, NV

LOCATION.--Lat 36°14'40", long 115°43'09", in SW 1/4 NE 1/4 sec.6, T.20 S., R.56 E., Clark County, Hydrologic Unit 16060015, on left bank, 200 ft upstream of Carpenter Road, 11 mi east of State Highway 160, and 14.5 mi east of Pahrump.

DRAINAGE AREA.--3.09 mi².

PERIOD OF RECORD.--November 1977 to September 1983, October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,900 ft above sea level, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft³/s, April 30, gage height, 8.17 ft; minimum daily, 0.37 ft³/s, December 9, 30, 31, January 2, but may have been less during periods of estimated daily discharge.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.64	e.38	.38	.44	2.8	4.2	16	6.4	2.2	1.6	.98
2	.83	.64	e.40	e.37	.44	2.4	4.5	15	6.5	2.1	1.6	.96
3	.82	.64	.41	.41	.44	2.0	4.9	15	6.9	2.0	1.6	.95
4	.81	.64	.41	.41	.41	1.7	6.7	14	6.7	2.0	1.6	.94
5	.78	.64	.41	e.38	.41	1.7	8.8	14	6.5	1.9	1.7	.92
6	.76	.66	.42	e.39	.47	1.9	10	14	6.0	1.9	1.6	.90
7	.76	.67	.44	.40	.49	1.9	10	11	5.3	1.8	1.6	.85
8	.76	.65	.42	e.39	.45	1.7	10	11	4.7	1.8	1.6	.80
9	.73	.65	.37	.38	.44	1.5	10	12	4.4	1.8	1.6	.77
10	.72	.64	.38	.39	.46	1.8	10	12	4.2	1.8	1.6	.77
11	.72	.64	.40	.43	.48	2.4	10	12	4.0	1.7	1.6	.77
12	.71	.62	.38	e.40	.50	2.7	11	12	3.8	1.7	1.6	.77
13	.71	.60	.38	e.41	.48	3.6	11	12	3.7	1.7	1.6	.77
14	.68	.64	.38	e.40	.46	4.3	11	11	3.5	1.7	1.6	.76
15	.68	.64	.38	e.41	.50	4.5	11	11	3.3	1.7	1.5	.77
16	.68	.60	.38	.41	.49	4.4	9.9	11	3.2	1.7	1.5	.74
17	.67	.59	.38	.41	.51	4.2	9.7	10	3.1	1.7	1.5	.70
18	.66	.59	.43	.41	.51	3.9	9.9	10	3.2	1.7	1.4	.71
19	.64	.58	.44	.41	.55	3.4	9.8	10	3.0	1.7	1.4	.70
20	.65	.55	.42	.41	.73	3.0	9.4	9.7	3.0	1.7	1.3	.68
21	.64	.58	.41	.41	.96	2.9	9.5	9.1	2.9	1.6	1.3	.67
22	.64	.59	.41	.40	1.3	2.6	9.4	8.1	2.9	1.6	1.2	.67
23	.64	.55	.41	.38	1.9	2.5	9.4	6.9	2.8	1.6	1.2	.67
24	.64	.55	.41	.38	1.6	2.2	10	6.1	2.8	1.6	1.2	.66
25	.64	.55	.40	.39	1.7	2.5	11	6.4	2.7	1.6	1.2	.62
26	.74	.55	.39	.40	1.9	2.5	13	7.2	2.6	1.6	1.2	.59
27	.80	.55	.38	.38	2.2	2.7	15	8.3	2.5	1.6	1.1	.59
28	.71	.55	.40	.39	2.7	3.0	16	8.3	2.5	1.6	1.1	.59
29	.68	.55	.39	.41	3.1	3.0	16	8.1	2.5	1.6	1.1	.59
30	.68	e.40	e.37	.41	---	3.2	16	7.5	2.4	1.6	1.0	.58
31	.68	---	e.37	.42	---	3.3	---	6.8	---	1.6	.99	---
TOTAL	22.09	17.94	12.35	12.37	27.02	86.2	307.1	325.5	118.0	53.9	43.69	22.44
MEAN	.71	.60	.40	.40	.93	2.78	10.2	10.5	3.93	1.74	1.41	.75
MAX	.83	.67	.44	.43	3.1	4.5	16	16	6.9	2.2	1.7	.98
MIN	.64	.40	.37	.37	.41	1.5	4.2	6.1	2.4	1.6	.99	.58
AC-FT	44	36	24	25	54	171	609	646	234	107	87	45

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1992, BY WATER YEAR (WY)

	MEAN	.66	.55	.43	.51	.91	1.76	4.94	7.10	3.83	1.58	1.24	.86
MAX	1.28	.86	.90	1.15	1.57	4.95	11.8	17.8	11.6	4.19	4.36	2.07	
(WY)	1985	1983	1983	1983	1985	1978	1978	1983	1978	1983	1983	1983	
MIN	.29	.26	.14	.15	.14	.29	.91	1.32	.73	.42	.32	.32	
(WY)	1986	1990	1991	1990	1990	1987	1990	1981	1990	1989	1989	1985	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1978 - 1992
ANNUAL TOTAL	473.68	1048.60	
ANNUAL MEAN	1.30	2.87	1.83
HIGHEST ANNUAL MEAN			4.35
LOWEST ANNUAL MEAN			.52
HIGHEST DAILY MEAN	7.2 Jun 7	16 Apr 28	35 May 27 1983
LOWEST DAILY MEAN	.14 Jan 8	.37 Dec 9	.10 Dec 22 1990
ANNUAL SEVEN-DAY MINIMUM	.14 Jan 24	.38 Dec 27	.11 Dec 20 1990
INSTANTANEOUS PEAK FLOW		17 Apr 30	228 Aug 17 1983
INSTANTANEOUS PEAK STAGE		8.17 Apr 30	8.68 Aug 17 1983
ANNUAL RUNOFF (AC-FT)	940	2080	1330
10 PERCENT EXCEEDS	3.7	9.9	5.2
50 PERCENT EXCEEDS	.71	1.2	.86
90 PERCENT EXCEEDS	.18	.41	.30

WALKER LAKE BASIN

117

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 mi², approximately.

PERIOD OF RECORD.--August 1928 to current year. Occasional readings prior to August 1928.

GAGE.--Nonrecording gage. Datum of gage is above sea level (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.

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, 2,372,000 acre-ft, January 25, 1982, elevation, 3,952.9 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft, adjustment of 1912, was observed September 27, 1908, by Geological Survey (contents, 8,622,000 acre-ft, table now in use).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,403,000 acre-ft, October 3, elevation 3953.8 ft; minimum observed, 2,286,000 acre-ft, August 28, elevation 3950.4 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents acre-feet)
Sept. 30.	3,953.8	--	--
Oct. 31.	3,953.2	2,382,000	-21,000
Nov. 30.	3,952.9	2,372,000	-10,000
Dec. 31.	3,952.7	2,365,000	-7,000
CAL YR 1991.	--	--	-123,000
Jan. 31.	3,952.5	2,358,000	-7,000
Feb. 29.	3,952.5	2,358,000	0
Mar. 31.	3,952.4	2,355,000	-3,000
Apr. 30.	3,952.2	2,348,000	-7,000
May. 31.	3,951.8	2,334,000	-14,000
June 30.	3,951.4	2,320,000	-14,000
July 31.	3,951.0	2,306,000	-14,000
Aug. 31.	3,950.3	2,282,000	-24,000
Sept. 30.	3,949.9	2,268,000	-14,000
WTR YR 1992.	--	--	-135,000

NOTE: Monthend elevations are interpolated from readings made during the year.

WALKER LAKE BASIN

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 mi².

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 sea level (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.

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 contents observed October 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,430 acre-ft, May 28, elevation, 7,208.12 ft; minimum observed, 128 acre-ft, October 3, elevation, 7,200.46 ft.

MONTHEND ELEVATION AND CONTENTS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,200.53	148	--
Oct. 31.	7,200.68	190	+42
Nov. 30.	7,201.68	470	+280
Dec. 31.	7,203.69	1040	+570
CAL YR 1991.	--	--	+51
Jan. 31.	7,205.52	1,600	+560
Feb. 28.	7,206.84	2,020	+420
Mar. 31.	7,207.34	2,180	+160
Apr. 30.	7,207.84	2,340	+160
May 31.	7,208.03	2,400	+60
June 30.	7,206.94	2,050	-350
July 31.	7,202.98	834	-1,216
Aug. 31.	7,201.46	408	-426
Sept. 30.	7,200.87	243	-165
WTR YR 1992.	--	--	+95

NOTE: Monthend elevations and contents are interpolated from readings made during the year.

WALKER LAKE BASIN

119

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 mi².

PERIOD OF RECORD.--December 1961 to current year.

GAGE.--Non-recording gage. Datum of gage is 7,205.45 ft above sea level (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.

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, 2,440 acre-ft, April 28, elevation, 7,196.10 ft; minimum observed, 740 acre-ft, November 4, elevation 7,191.85 ft.

MONTHEND ELEVATION AND CONTENTS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	7,192.30	920	--
Oct. 31.	7,191.88	750	-170
Nov. 30.	7,192.80	1120	+370
Dec. 31.	7,193.12	1250	+130
CAL YR 1991.	--	--	+583
Jan. 31.	7,193.53	1410	+160
Feb. 28.	7,194.59	1840	+430
Mar. 31.	7,194.88	1,950	+110
Apr. 30.	7,196.02	2,410	+460
May 31.	7,195.08	2,030	-380
June 30.	7,195.10	2,040	+10
July 31.	7,194.70	1,880	-160
Aug. 31.	7,193.34	1,340	-540
Sept. 30.	7,192.95	1,180	-160
WTR YR 1992.	--	--	+260

NOTE: Monthend elevations and contents are interpolated from readings made during the year.

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.

PERIOD OF RECORD.--October 1953 to September 1975, May to September 1992.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Upper and Lower Twin Lakes. No flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September, 112 ft³/s, May 11, 12, gage height, 2.96 ft; minimum daily, 14.0 ft³/s, September 23-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

e Estimated

MEAN	20.8	7.61	4.93	9.51	13.1	14.3	47.9	101	183	154	96.1	51.2
MAX	37.5	25.0	21.9	39.0	63.4	25.5	79.4	187	349	337	144	89.0
(WY)	1970	1968	1968	1970	1963	1970	1959	1969	1969	1967	1969	1974
MIN	9.80	.67	.000	.000	.000	.000	22.3	59.1	68.2	62.0	35.1	15.9
(WY)	1956	1958	1954	1954	1954	1955	1975	1955	1992	1992	1992	1992

WATER YEARS 1954 - 1992

ANNUAL MEAN	60.0		
HIGHEST ANNUAL MEAN	99.5		1969
LOWEST ANNUAL MEAN	33.8		1961
HIGHEST DAILY MEAN	478	Jun 20	1963
LOWEST DAILY MEAN	.00	Nov 3	1953
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 3	1953
INSTANTANEOUS PEAK FLOW	492	Jun 20	1963
INSTANTANEOUS PEAK STAGE	4.62	Jun 6	1969
ANNUAL RUNOFF (AC-FT)	43460		
10 PERCENT EXCEEDS	149		
50 PERCENT EXCEEDS	26		
90 PERCENT EXCEEDS	.20		

WALKER LAKE BASIN

121

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 mi².

PERIOD OF RECORD.--March 1926 to current year. Monthend 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 sea level (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.

EXTREMES FOR CURRENT YEAR.--Maximum recorded contents, 10,590 acre-ft, March 14, elevation, 6,444.33 ft; minimum 1550 acre-feet, September 30, elevation, 6,431.48 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)

6,425	334	6,440	6,240
6,430	1,130	6,445	11,380
6,435	2,920	6,450	18,780

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1710	2270	4580	6140	7340	10080	9800	8520	7000	4210	2470	2330
2	1700	2330	4630	6180	7400	10140	9800	8460	7030	4180	2410	2360
3	1690	2400	4700	6220	7450	10220	9790	8390	7010	4120	2330	2350
4	1670	2470	4750	6270	7490	10250	9730	8320	6930	4030	2270	2360
5	1670	2540	4800	6330	7560	10250	9720	8260	6830	3970	2210	2350
6	1660	2620	4870	6370	7640	10220	9690	8280	6760	3890	2160	2340
7	1660	2700	4910	6420	7710	10240	9680	8360	6710	3820	2090	2320
8	1650	2770	4970	6430	7770	10270	9690	8440	6640	3720	2030	2310
9	1650	2860	5020	6490	7840	10310	9660	8420	6540	3630	1960	2300
10	1650	2950	5060	6510	7920	10290	9650	8420	6420	3510	1910	2280
11	1650	3030	5130	6570	8030	10320	9580	8370	6340	3410	1870	2260
12	1650	3120	5160	6570	8090	10340	9520	8250	6190	3380	1880	2230
13	1650	3180	5210	6610	8180	10350	9430	8080	6040	3370	1900	2210
14	1650	3240	5270	6650	8240	10390	9340	7920	5920	3330	1940	2180
15	1650	3320	5340	6690	8310	10370	9290	7780	5780	3310	2000	2170
16	1640	3410	5410	6740	8410	10330	9250	7650	5670	3320	2070	2170
17	1640	3540	5490	6770	8450	10260	9210	7570	5540	3420	2110	2160
18	1630	3640	5570	6810	8540	10220	9190	7460	5430	3440	2150	2150
19	1620	3740	5600	6850	8630	10160	9180	7340	5340	3440	2170	2130
20	1620	3860	5620	6870	8780	10070	9170	7270	5240	3410	2190	2110
21	1620	3960	5650	6910	9010	10000	9110	7240	5160	3370	2200	2090
22	1620	4070	5700	6930	9190	9960	9020	7170	5050	3280	2190	2050
23	1610	4150	5740	6980	9310	9960	8980	7130	4940	3200	2190	2020
24	1640	4250	5790	7010	9430	9920	8910	7100	4840	3130	2210	1960
25	1660	4340	5820	7050	9540	9890	8840	7090	4740	3050	2210	1910
26	1870	4430	5890	7080	9650	9870	8810	7060	4640	2960	2220	1830
27	2000	4450	5930	7150	9770	9850	8770	7010	4510	2890	2230	1760
28	2050	4530	5990	7170	9880	9810	8710	6990	4430	2810	2230	1690
29	2100	4490	6010	7210	9980	9800	8630	7000	4290	2740	2240	1620
30	2150	4560	6070	7240	---	9790	8550	6990	4250	2650	2280	1550
31	2210	---	6100	7290	---	9800	---	7010	---	2570	2300	---
MAX	2210	4560	6100	7290	9980	10390	9800	8520	7030	4210	2470	2360
MIN	1610	2270	4580	6140	7340	9790	8550	6990	4250	2570	1870	1550
#	6433.39	6437.78	6439.82	6441.18	6443.80	6443.64	6442.46	6440.87	6437.30	6434.25	6433.62	6431.48
##	+490	+2350	+1540	+1120	+2760	-180	-1250	-1540	-2760	-1680	-270	-750
CAL YR 1991	MAX 6100	MIN 1210	##	+4820								
WTR YR 1992	MAX 10390	MIN 1550	##	+170								

Elevation, in feet above sea level, at end of month.

Change in contents, in acre-feet.

WALKER LAKE BASIN

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 mi².

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 sea level, 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 fair. Diversions for irrigation of meadow pasturelands near Bridgeport. Flow regulated by Bridgeport Reservoir (station 10292500).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 137 ft³/s, May 13-16, gage height, 3.28 ft; minimum daily, 21 ft³/s, February 1-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	28	33	30	21	22	27	51	60	76	57	34
2	42	24	33	31	21	27	27	61	60	73	51	34
3	42	23	33	30	21	34	27	65	69	69	50	37
4	42	22	33	30	21	53	27	61	86	67	44	42
5	42	22	33	31	21	66	27	51	89	67	41	42
6	42	22	33	31	21	66	27	47	94	67	47	42
7	42	22	33	31	21	58	27	48	94	70	46	42
8	42	22	33	31	21	41	29	59	105	77	46	41
9	42	22	33	31	21	44	31	74	126	82	45	40
10	42	23	33	32	21	47	37	86	115	81	45	40
11	42	23	33	32	21	41	48	100	115	74	41	40
12	42	23	33	32	21	38	61	127	115	65	38	40
13	42	23	28	31	21	31	57	137	120	62	38	40
14	42	23	23	31	21	31	44	137	131	62	37	38
15	42	23	23	31	21	31	47	136	131	62	35	31
16	42	23	23	31	21	34	39	117	128	58	31	31
17	42	23	23	31	22	41	24	82	123	53	31	31
18	42	23	22	31	22	41	36	83	117	53	31	37
19	41	23	26	31	22	47	42	76	108	53	32	39
20	41	23	32	31	22	67	42	63	96	52	32	39
21	41	24	32	31	22	56	44	59	96	51	32	39
22	41	24	31	31	22	32	50	59	93	56	32	42
23	41	24	31	31	22	32	50	57	88	60	32	47
24	38	24	31	32	22	32	50	50	92	53	32	47
25	36	24	30	32	22	32	50	50	96	56	32	53
26	37	24	30	32	22	30	50	54	96	59	33	62
27	37	24	30	32	22	27	56	60	95	59	34	62
28	38	29	30	32	22	27	71	60	96	60	34	61
29	38	35	30	32	22	27	70	60	91	59	34	60
30	34	34	30	32	---	27	64	60	83	59	33	60
31	29	---	30	29	---	27	---	60	---	59	33	---
TOTAL	1248	726	931	966	622	1209	1281	2290	3008	1954	1179	1293
MEAN	40.3	24.2	30.0	31.2	21.4	39.0	42.7	73.9	100	63.0	38.0	43.1
MAX	42	35	33	32	22	67	71	137	131	82	57	62
MIN	29	22	22	29	21	22	24	47	60	51	31	31
AC-FT	2480	1440	1850	1920	1230	2400	2540	4540	5970	3880	2340	2560

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1992, BY WATER YEAR (WY)

	MEAN	58.6	28.3	34.7	35.2	44.2	86.1	174	252	309	298	237	152
MAX	301	325	398	260	200	417	721	880	1001	797	638	406	
(WY)	1984	1983	1984	1942	1963	1983	1952	1938	1938	1967	1983	1983	
MIN	7.35	1.10	2.50	.50	.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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1922 - 1992	
ANNUAL TOTAL	19661		16707		142	
ANNUAL MEAN	53.9		45.6		443	
HIGHEST ANNUAL MEAN					37.5	
LOWEST ANNUAL MEAN					1983	
HIGHEST DAILY MEAN	205	Jun 17	137	May 13	1360	Jun 20 1963
LOWEST DAILY MEAN	22	Nov 4	21	Feb 1	.20	Nov 2 1955
ANNUAL SEVEN-DAY MINIMUM	22	Nov 3	21	Feb 1	.20	Nov 2 1955
INSTANTANEOUS PEAK FLOW			137	May 13	1390	Jun 19 1963
INSTANTANEOUS PEAK STAGE			3.28	May 13	4.95	Jan 22 1943
ANNUAL RUNOFF (AC-FT)	39000		33140		102900	
10 PERCENT EXCEEDS	112		82		341	
50 PERCENT EXCEEDS	38		38		91	
90 PERCENT EXCEEDS	23		22		6.6	

WALKER LAKE BASIN

123

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 mi², approximately.

PERIOD OF RECORD.--January 1947 to current year (irrigation season only, since 1979).

GAGE.--Water-stage recorder. Datum of gage is 4,574.10 ft above sea level. 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 fair. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500). Annual mean listed below represents average discharge for water years 1948-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 126 ft³/s, July 11, gage height, 3.17 ft; minimum daily during period April to September, 16 ft³/s, August 5, September 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	34	46	34	62	22	24
2	---	---	---	---	---	---	33	40	32	57	22	22
3	---	---	---	---	---	---	32	37	31	55	22	20
4	---	---	---	---	---	---	32	42	34	51	18	20
5	---	---	---	---	---	---	33	38	41	47	16	21
6	---	---	---	---	---	---	32	34	51	45	18	22
7	---	---	---	---	---	---	32	33	58	40	19	21
8	---	---	---	---	---	---	32	31	62	38	21	21
9	---	---	---	---	---	---	30	34	63	39	23	21
10	---	---	---	---	---	---	30	39	80	46	25	19
11	---	---	---	---	---	---	31	53	84	66	27	19
12	---	---	---	---	---	---	34	58	71	42	29	19
13	---	---	---	---	---	---	45	77	70	30	29	18
14	---	---	---	---	---	---	50	91	78	25	29	18
15	---	---	---	---	---	---	44	97	104	25	31	19
16	---	---	---	---	---	---	41	100	119	26	35	18
17	---	---	---	---	---	---	39	97	119	27	32	16
18	---	---	---	---	---	---	31	66	113	26	25	16
19	---	---	---	---	---	---	25	60	108	22	23	16
20	---	---	---	---	---	---	31	54	95	20	22	18
21	---	---	---	---	---	---	33	45	79	19	20	19
22	---	---	---	---	---	---	33	40	74	18	19	19
23	---	---	---	---	---	---	35	e39	67	17	19	19
24	---	---	---	---	---	---	38	38	56	20	20	22
25	---	---	---	---	---	---	39	34	54	21	21	27
26	---	---	---	---	---	---	40	33	57	20	21	29
27	---	---	---	---	---	---	38	33	59	21	20	38
28	---	---	---	---	---	---	39	35	58	23	19	44
29	---	---	---	---	---	---	46	38	60	22	17	46
30	---	---	---	---	---	---	45	38	63	22	28	47
31	---	---	---	---	---	---	---	35	---	21	25	---
TOTAL	---	---	---	---	---	---	1077	1535	2074	1013	717	698
MEAN	---	---	---	---	---	---	35.9	49.5	69.1	32.7	23.1	23.3
MAX	---	---	---	---	---	---	50	100	119	66	35	47
MIN	---	---	---	---	---	---	25	31	31	17	16	16
AC-FT	---	---	---	---	---	---	2140	3040	4110	2010	1420	1380

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1992, BY WATER YEAR (WY)

	MEAN	68.1	40.4	46.9	49.7	65.0	80.0	179	250	316	280	219	156
MAX	173	133	178	259	320	363	755	905	1420	802	708	446	
(WY)	1957	1966	1951	1970	1963	1969	1969	1969	1986	1967	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

WATER YEARS 1948 - 1992

ANNUAL MEAN	141	
HIGHEST ANNUAL MEAN	401	1969
LOWEST ANNUAL MEAN	38.7	1961
HIGHEST DAILY MEAN	2580	Jun 4 1986
LOWEST DAILY MEAN	2.3	Mar 12 1977
ANNUAL SEVEN-DAY MINIMUM	3.6	Mar 20 1948
ANNUAL RUNOFF (AC-FT)	102500	
10 PERCENT EXCEEDS	367	
50 PERCENT EXCEEDS	104	
90 PERCENT EXCEEDS	24	

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, 50 ft downstream from Little Walker River, 160 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

REMARKS.--Records good 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 Reservoir, capacity, 1,200 acre-ft, 7 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,120 ft³/s and maximum (*):

Minimum daily, 17 ft³/s, Sept. 30.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	35	e58	e39	35	69	109	512	402	166	56	34
2	25	36	e56	e41	e34	66	128	435	398	132	54	33
3	25	38	e52	e39	e34	64	159	454	358	114	51	31
4	24	39	e50	40	e34	60	196	464	334	104	49	33
5	24	43	e47	39	e34	62	186	490	309	95	47	32
6	23	52	e47	e37	35	61	177	537	284	89	45	29
7	23	54	48	e36	36	61	189	724	250	84	43	28
8	23	55	e48	e39	35	60	209	712	241	78	39	27
9	23	65	e48	e38	33	57	216	665	252	75	35	26
10	23	72	e49	e37	34	55	221	534	225	73	34	25
11	23	64	e48	e37	33	57	242	552	204	72	33	24
12	24	58	e47	e38	34	60	231	561	196	272	39	23
13	24	55	e46	e38	36	63	281	557	178	231	38	23
14	23	51	e45	e36	36	64	291	563	165	167	39	23
15	22	46	e44	e36	36	66	290	553	167	144	53	22
16	22	49	e44	e36	38	64	261	545	158	140	48	22
17	22	65	e45	e37	42	61	438	540	154	178	38	21
18	22	51	43	e37	39	58	477	522	148	134	35	22
19	22	59	37	e36	40	59	364	483	141	118	32	21
20	22	74	e38	e37	51	60	359	390	135	107	30	20
21	22	79	e45	e36	63	59	399	346	139	100	e32	20
22	22	64	50	e36	79	60	348	332	133	93	e31	19
23	24	60	e42	e36	63	57	305	337	129	87	e31	19
24	23	61	e41	38	59	58	379	354	150	83	e30	18
25	25	59	e40	38	61	60	465	375	152	80	e29	18
26	78	57	46	e39	63	63	505	381	136	75	e28	19
27	44	58	e44	e39	65	69	526	419	124	73	26	19
28	38	49	e42	42	71	77	594	517	117	69	26	18
29	41	38	e42	e50	71	87	574	487	118	66	27	18
30	36	e52	e39	e64	---	93	633	404	160	64	31	17
31	33	---	e41	45	---	97	---	388	---	60	33	---
TOTAL	851	1638	1412	1216	1324	2007	9752	15133	6057	3423	1162	704
MEAN	27.5	54.6	45.5	39.2	45.7	64.7	325	488	202	110	37.5	23.5
MAX	78	79	58	64	79	97	633	724	402	272	56	34
MIN	22	35	37	36	33	55	109	332	117	60	26	17
AC-FT	1690	3250	2800	2410	2630	3980	19340	30020	12010	6790	2300	1400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1992, BY WATER YEAR (WY)

MEAN	55.7	70.1	73.6	68.0	74.6	102	293	746	922	466	144	72.4
MAX	219	539	448	204	246	369	600	1655	2066	1383	663	246
(WY)	1983	1951	1951	1956	1963	1986	1938	1969	1983	1983	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

WALKER LAKE BASIN

125

10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CA--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1938 - 1992	
ANNUAL TOTAL	59545		44679			
ANNUAL MEAN	163		122		254	
HIGHEST ANNUAL MEAN					537	1983
LOWEST ANNUAL MEAN					65.3	1977
HIGHEST DAILY MEAN	1440	Jun 11	724	May 7	3800	Nov 21 1950
LOWEST DAILY MEAN	17	Jan 26	17	Sep 30	9.7	Sep 11 1977
ANNUAL SEVEN-DAY MINIMUM	22	Oct 15	18	Sep 24	10	Sep 5 1977
INSTANTANEOUS PEAK FLOW			820	May 8	6220	Nov 20 1950
INSTANTANEOUS PEAK STAGE			3.18	May 8	8.10	Nov 20 1950
INSTANTANEOUS LOW FLOW			8.8	Feb 14	4.0	Nov 18 1948
ANNUAL RUNOFF (AC-FT)	118100		88620		184100	
10 PERCENT EXCEEDS	453		383		785	
50 PERCENT EXCEEDS	48		54		88	
90 PERCENT EXCEEDS	24		24		34	

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA

LOCATION.--Lat 38°30'55", long 119°27'15", in NW 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, 0.2 mi downstream from Rock Creek, and 5 mi southeast of Coleville.

DRAINAGE AREA.--250 mi².

PERIOD OF RECORD.--October 1902 to July 1908 (published as West Fork of Walker River near Coleville, 1903, 1905-8 and as Walker River (West Fork) near Coleville, 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year. Monthly discharge only for some periods published in WSP 1314.

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 sea level, from topographic map. Prior to July 31, 1908, nonrecording gage at site 0.5 mi upstream at different datum. March 1, 1909, to August 31, 1910, nonrecording gage, and June 18, 1915, to August 15, 1919, water-stage recorder near present site at different datums. August 16, 1919, to March 31, 1938, water-stage recorder at site 1,000 ft upstream at different datum. May 26, 1957, to September 10, 1963, water-stage recorder at site 10 ft downstream at datum 0.38 ft lower.

REMARKS.--Records good 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 Reservoir, capacity, 1,200 acre-ft, 17 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,120 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	0500	*794	*2.54				
Minimum daily, 23 ft ³ /s, Sept. 24, 25, 28-30.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	45	68	e45	44	85	116	565	374	183	64	39
2	32	45	59	e45	44	82	138	483	376	153	62	36
3	31	46	57	e45	40	80	166	492	342	132	59	35
4	31	47	53	e44	44	76	235	499	322	120	56	35
5	31	51	52	e44	45	79	220	520	304	111	54	36
6	31	59	55	e43	45	78	208	551	284	104	53	35
7	30	62	54	e43	45	80	218	719	260	100	51	33
8	29	64	52	40	44	76	242	706	243	96	49	e32
9	30	71	49	e43	42	73	251	663	257	92	44	e31
10	31	80	51	e41	43	69	249	526	237	90	43	e30
11	31	75	55	e43	42	71	268	534	218	87	42	e29
12	30	68	50	e45	43	75	257	547	207	234	44	e28
13	29	64	51	e43	44	79	291	538	194	266	48	e28
14	29	61	51	e40	43	79	302	544	180	194	48	e28
15	29	53	50	e42	46	82	309	527	180	164	59	e27
16	28	55	48	e43	43	81	287	513	177	156	63	e27
17	28	72	e47	e45	46	76	391	510	169	201	49	e26
18	28	59	e48	e44	47	73	503	497	166	157	45	e27
19	28	59	46	e44	49	73	386	469	160	137	41	e26
20	28	73	45	e43	55	76	371	394	154	121	40	e25
21	28	83	e52	e44	65	76	416	351	154	113	38	e25
22	28	68	e50	e45	84	75	386	329	147	103	36	e24
23	28	63	e48	e46	79	75	340	330	143	99	36	e24
24	29	64	48	e45	73	77	352	343	159	95	36	e23
25	29	61	48	e46	75	e78	406	359	167	90	34	e23
26	74	58	e47	e46	78	e79	482	369	154	82	33	e24
27	66	59	47	e45	81	83	523	387	137	78	32	e24
28	50	53	48	e45	85	90	543	473	130	77	31	e23
29	53	44	45	e54	86	98	616	465	130	76	33	e23
30	47	47	45	e66	---	103	688	387	165	75	37	e23
31	43	---	44	e54	---	106	---	371	---	70	40	---
TOTAL	1071	1809	1563	1401	1600	2483	10160	14961	6290	3856	1400	849
MEAN	34.5	60.3	50.4	45.2	55.2	80.1	339	483	210	124	45.2	28.3
MAX	74	83	68	66	86	106	688	719	376	266	64	39
MIN	28	44	44	40	40	69	116	329	130	70	31	23
AC-FT	2120	3590	3100	2780	3170	4930	20150	29680	12480	7650	2780	1680

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1992, BY WATER YEAR (WY)

MEAN	66.1	70.1	66.1	66.7	78.0	114	292	757	934	443	144	76.9
MAX	236	214	270	189	280	403	636	1756	2055	1404	676	262
(WY)	1983	1974	1965	1980	1963	1986	1910	1969	1983	1983	1983	1982
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

WALKER LAKE BASIN

127

10296500 WEST WALKER RIVER NEAR COLEVILLE, CA--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1903 - 1992	
ANNUAL TOTAL	69172		47443		271	
ANNUAL MEAN	190		130		563	1983
HIGHEST ANNUAL MEAN					74.5	1977
LOWEST ANNUAL MEAN					2950	May 29 1983
HIGHEST DAILY MEAN	1580	Jun 11	719	May 7	14	Jul 24 1924
LOWEST DAILY MEAN	21	Jan 26	23	Sep 24	14	Aug 28 1924
ANNUAL SEVEN-DAY MINIMUM	24	Jan 26	23	Sep 24	6500	Dec 11 1937
INSTANTANEOUS PEAK FLOW			794	May 8	unknown	Dec 11 1937
INSTANTANEOUS PEAK STAGE			2.54	May 8	5.0	Dec 3 1924
INSTANTANEOUS LOW FLOW						
ANNUAL RUNOFF (AC-FT)	137200		94100		196300	
10 PERCENT EXCEEDS	503		375		793	
50 PERCENT EXCEEDS	58		61		92	
90 PERCENT EXCEEDS	30		30		36	

WALKER RIVER BASIN

10296650 WEST WALKER RIVER ABOVE TOPAZ LAKE AT TOPAZ, CA

LOCATION.--Lat 38°36'39", long 119°31'00", in NW 1/4 SW 1/4 sec.24, T.9 N., R.22 E., Mono County, Hydrologic Unit 16050302, at bridge 500 ft east of U.S. Highway 395 on Topaz Lane, and about 3 mi northwest of Coleville.

DRAINAGE AREA.--293 mi².

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--In April 1990, station was incorporated into the Douglas County Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
AUG 25...	1045	39	180	19.0	14.0	49	14	3.3	17	1	6.3
DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
AUG 25...	9.8	6.1	0.30	118	101	0.16	<0.001	<0.005	0.009	0.006	28

WALKER LAKE BASIN

129

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 read once daily. Datum of gage is above sea level. 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). Useable 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.

EXTREMES FOR CURRENT YEAR.--Maximum contents 12,580 acre-ft, April 21, elevation, 4,975.66 ft; no contents, October 1 to November 12.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,967	0	4,975	11,520
4,968	490	4,980	19,760
4,970	3,580	4,985	28,310

RESERVOIR STORAGE (AC-FT) WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1580	4640	7750	11260	12210	12240	9340	e6210	4850	1890
2	.00	.00	1680	4740	7850	11370	12240	12050	9500	e6180	4750	1840
3	.00	.00	1750	4850	7940	11470	12180	11860	9540	e6150	4630	1740
4	.00	.00	1860	4930	8020	11520	12130	11680	9500	e6100	4500	1710
5	.00	.00	1950	4970	8130	11550	12080	11550	9440	e6060	4360	1640
6	.00	.00	1840	5180	8240	11610	12020	11470	9380	e6040	4250	1580
7	.00	.00	2140	5290	8350	11640	11970	11660	9330	e6010	4160	1520
8	.00	.00	2250	5370	8480	11660	11920	11900	9260	e5960	3970	1490
9	.00	.00	2340	5460	8580	11710	11890	11920	9220	e5920	3770	1440
10	.00	.00	2400	5600	8660	11730	11840	11630	9070	e5900	3600	1380
11	.00	.00	2500	5660	8820	11790	11810	11370	8930	e5870	3410	1340
12	.00	.00	2560	5730	8930	11840	11710	11110	8720	e5840	3260	1280
13	.00	61	2680	5850	9040	11840	11690	10920	8510	e5770	3130	1210
14	.00	184	2760	5960	9120	11840	11710	10680	8320	e5740	3010	1150
15	.00	199	2850	6090	9300	11820	11760	10440	8200	e5710	2990	1110
16	.00	260	2980	6170	9340	11840	11740	10240	8100	e5700	2850	1060
17	.00	413	3100	6260	9460	11820	11820	10160	7970	e5650	2760	1040
18	.00	459	3210	6370	9570	11810	12210	10080	7910	e5600	2650	1030
19	.00	551	3300	6450	9520	11770	12420	10020	7830	e5570	2570	1010
20	.00	659	3400	6550	9810	11760	12520	9820	7770	e5540	2420	1010
21	.00	767	3490	6640	9920	11730	12520	9600	7690	e5510	2290	998
22	.00	844	3600	6740	10080	11760	12490	9330	7640	e5460	2220	998
23	.00	921	3720	6820	10230	11760	12360	9060	7500	e5430	2200	906
24	.00	998	3800	6930	10370	11790	12260	8770	7380	e5400	2170	921
25	.00	1110	3900	7050	10500	11840	12200	8550	7230	e5370	2140	875
26	.00	1030	4040	7130	10640	11890	12260	8470	7070	e5330	2090	859
27	.00	1260	4130	7230	10790	11900	12340	8420	6910	5260	2060	859
28	.00	1400	4250	7310	10970	11950	12240	8640	6640	5190	2050	844
29	.00	1430	4360	7450	11110	11970	12230	8930	6530	5110	1970	859
30	.00	1510	4440	7510	---	12020	12280	9090	6250	5040	1970	844
31	.00	---	4530	7650	---	12120	---	9180	---	4960	1940	---
MAX	.00	1510	4530	7650	11110	12120	12520	12240	9540	6210	4850	1890
MIN	.00	.00	1580	4640	7750	11260	11690	8420	6250	4960	1940	844
#	4967.24	4968.66	4970.61	4972.59	4974.75	4975.37	4975.47	4973.55	4971.70	4970.88	4968.94	4968.23
##	0	+1510	+3020	+3120	+3460	+1010	+160	-3100	-2930	-1290	-3020	-1096
CAL YR 1991	MAX 21610	MIN .00	##	+2240								
WTR YR 1992	MAX 12580	MIN .00	##	+844								

Elevation, in feet above sea level, at end of month.

Change in contents, in acre-feet.

e Estimated

WALKER LAKE BASIN

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 Hoyer Bridge, 2 mi upstream from head of Saroni Canal, and 4 mi southwest of Wellington.

DRAINAGE AREA.--497 mi².

WATER-DISCHARGE RECORDS

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 sea level, 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.--No estimated daily discharges. Records good. 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 519 ft³/s, May 10, gage height, 4.79 ft; minimum daily, 21 ft³/s, several days in October and January.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	58	36	22	22	24	36	374	211	126	88	62
2	44	45	34	23	22	24	40	375	206	125	86	63
3	42	40	34	23	22	33	88	367	247	120	84	61
4	41	40	34	23	23	46	90	366	224	115	82	58
5	37	40	35	23	23	54	97	372	216	120	81	56
6	33	41	37	23	23	55	114	385	210	148	80	54
7	31	44	39	24	23	54	115	378	184	124	78	53
8	28	41	36	26	23	49	115	401	162	120	81	52
9	27	38	34	25	23	49	114	460	165	116	102	51
10	26	40	39	26	23	54	119	516	171	88	99	49
11	26	42	40	26	23	43	126	503	157	79	95	48
12	27	43	41	24	23	42	135	492	150	70	93	46
13	28	44	37	24	23	42	136	484	149	86	91	46
14	28	44	32	22	23	41	144	482	157	80	92	44
15	28	46	32	21	23	40	151	480	159	84	89	43
16	27	47	31	21	23	41	158	461	163	90	90	44
17	26	48	26	21	23	48	148	425	145	90	91	43
18	25	54	26	21	23	49	167	399	129	93	88	43
19	25	56	27	22	23	48	177	371	120	87	84	33
20	25	53	26	22	23	50	180	350	110	85	76	32
21	25	49	25	21	23	51	233	333	110	92	55	32
22	24	49	26	22	24	37	234	319	95	93	52	32
23	22	47	25	23	24	37	234	318	102	104	51	31
24	21	47	28	22	24	37	234	331	112	90	50	30
25	21	47	26	22	25	38	234	319	127	88	50	31
26	39	45	24	22	26	39	244	294	145	86	49	31
27	77	43	24	21	24	40	251	267	141	84	48	32
28	63	37	23	21	24	38	342	249	137	83	47	32
29	60	36	23	22	24	39	359	234	133	82	48	32
30	61	36	22	22	---	45	371	224	128	81	51	31
31	59	---	22	22	---	35	---	217	---	82	52	---
TOTAL	1090	1340	944	702	675	1322	5186	11546	4665	3011	2303	1295
MEAN	35.2	44.7	30.5	22.6	23.3	42.6	173	372	155	97.1	74.3	43.2
MAX	77	58	41	26	26	55	371	516	247	148	102	63
MIN	21	36	22	21	22	24	36	217	95	70	47	30
AC-FT	2160	2660	1870	1390	1340	2620	10290	22900	9250	5970	4570	2570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1992, BY WATER YEAR (WY)

	MEAN	78.8	45.0	46.0	40.2	44.5	82.3	266	675	480	278	149
MAX	286	332	399	200	229	477	730	1303	1949	1413	721	390
(WY)	1984	1983	1983	1984	1969	1983	1982	1969	1983	1983	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1910 - 1992

ANNUAL TOTAL	44972	34079	
ANNUAL MEAN	123	93.1	238
HIGHEST ANNUAL MEAN			620
LOWEST ANNUAL MEAN			61.0
HIGHEST DAILY MEAN	510	516	2250
LOWEST DAILY MEAN	19	21	3.6
ANNUAL SEVEN-DAY MINIMUM	20	21	3.8
INSTANTANEOUS PEAK FLOW		519	2310
INSTANTANEOUS PEAK STAGE		4.79	8.75
ANNUAL RUNOFF (AC-FT)	89200	67600	172400
10 PERCENT EXCEEDS	388	234	614
50 PERCENT EXCEEDS	50	48	103
90 PERCENT EXCEEDS	22	23	20

WALKER RIVER BASIN

131

10297500 WEST WALKER RIVER AT HOYE BRIDGE, NEAR WELLINGTON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, 1990 to current year.

REMARKS.--In April 1990, station was incorporated into the Douglas County Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	
AUG 25...	1225	50	208	23.5	18.0	60	17	4.3	18	1	2.1	
DATE		SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
AUG 25...	11	10	0.50	110	112	0.15	<0.001	<0.005	0.011	0.004	6	

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 mi².

PERIOD OF RECORD.--August 1914 to March 1925, January 1947 to current year (irrigation season only, since 1979).
August 1914 to May 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above sea level, 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.--No estimated daily discharge. Records good. 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. Annual mean listed below represents average discharge for water years 1915-24, 1948-78.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period April to September, 408 ft³/s, May 10, 11, gage height, 2.39 ft; minimum daily during period April to September, 33 ft³/s, April 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	36	321	158	92	76	55
2	---	---	---	---	---	---	33	323	146	88	81	61
3	---	---	---	---	---	---	48	318	162	86	80	61
4	---	---	---	---	---	---	73	297	148	85	83	58
5	---	---	---	---	---	---	75	302	140	85	83	53
6	---	---	---	---	---	---	89	313	139	103	83	54
7	---	---	---	---	---	---	91	307	126	100	80	53
8	---	---	---	---	---	---	93	302	110	88	77	53
9	---	---	---	---	---	---	94	315	108	95	91	52
10	---	---	---	---	---	---	93	401	112	85	94	52
11	---	---	---	---	---	---	100	388	106	65	85	50
12	---	---	---	---	---	---	105	377	97	60	83	48
13	---	---	---	---	---	---	106	377	94	59	84	48
14	---	---	---	---	---	---	110	370	96	73	84	47
15	---	---	---	---	---	---	115	363	100	69	85	47
16	---	---	---	---	---	---	123	359	102	71	90	47
17	---	---	---	---	---	---	120	335	101	68	88	47
18	---	---	---	---	---	---	121	312	93	68	87	48
19	---	---	---	---	---	---	135	294	88	71	82	44
20	---	---	---	---	---	---	135	265	80	70	78	39
21	---	---	---	---	---	---	176	240	74	77	67	38
22	---	---	---	---	---	---	199	223	73	78	57	37
23	---	---	---	---	---	---	195	213	69	81	55	36
24	---	---	---	---	---	---	191	220	64	87	54	35
25	---	---	---	---	---	---	187	224	69	83	53	35
26	---	---	---	---	---	---	192	200	84	81	51	35
27	---	---	---	---	---	---	210	189	96	80	50	36
28	---	---	---	---	---	---	262	167	99	80	49	37
29	---	---	---	---	---	---	304	159	96	79	48	37
30	---	---	---	---	---	---	315	164	94	76	51	37
31	---	---	---	---	---	---	---	166	---	71	52	---
TOTAL	---	---	---	---	---	---	4126	8804	3124	2454	2261	1380
MEAN	---	---	---	---	---	---	138	284	104	79.2	72.9	46.0
MAX	---	---	---	---	---	---	315	401	162	103	94	61
MIN	---	---	---	---	---	---	33	159	64	59	48	35
AC-FT	---	---	---	---	---	---	8180	17460	6200	4870	4480	2740

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1992, BY WATER YEAR (WY)

MEAN	71.6	67.9	75.5	62.5	79.9	95.4	206	418	585	338	165	104
MAX	203	178	493	178	277	450	528	1102	1718	1133	568	290
(WY)	1917	1951	1951	1970	1969	1969	1982	1969	1983	1983	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

WATER YEARS 1915 - 1992

ANNUAL MEAN	187	
HIGHEST ANNUAL MEAN	409	1969
LOWEST ANNUAL MEAN	56.4	1977
HIGHEST DAILY MEAN	2450	Dec 24 1955
LOWEST DAILY MEAN	10	Aug 23 1962
ANNUAL SEVEN-DAY MINIMUM	13	Aug 7 1920
INSTANTANEOUS PEAK FLOW	2700	Dec 24 1955
INSTANTANEOUS PEAK STAGE	7.42	Dec 24 1955
INSTANTANEOUS LOW FLOW	3.8	Jan 22 1962
ANNUAL RUNOFF (AC-FT)	135800	
10 PERCENT EXCEEDS	459	
50 PERCENT EXCEEDS	113	
90 PERCENT EXCEEDS	35	

WALKER LAKE BASIN

133

10301500 WALKER RIVER NEAR WABUSKA, NV
(National Stream-Quality Accounting Network Station)

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 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1902 to December 1904, January 1905 to July 1908 (fragmentary), January 1920 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 sea level, 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 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 122 ft³/s, May 20, gage height, 4.52 ft; maximum gage height, 4.76 ft, May 28; minimum daily discharge, 4.7 ft³/s, April 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	16	e15	12	19	36	10	31	46	46	29	45
2	32	31	e14	12	16	38	8.3	34	53	56	31	48
3	30	33	e14	11	14	37	6.0	39	45	57	38	48
4	31	30	e13	12	14	14	5.3	43	41	58	41	47
5	32	24	14	15	19	7.3	5.8	32	37	43	36	60
6	30	17	16	e13	13	6.6	6.2	39	28	44	32	55
7	30	14	16	11	10	6.9	5.4	34	23	34	32	40
8	30	14	17	8.4	8.9	8.6	4.7	38	22	45	26	34
9	30	16	18	9.3	8.3	10	5.3	39	42	23	23	30
10	29	13	16	10	7.7	57	10	36	55	31	28	25
11	27	11	e12	e9.0	8.1	50	14	63	57	70	36	22
12	27	13	e11	e7.7	7.6	47	18	71	41	57	28	27
13	27	15	e10	e9.0	7.3	35	24	57	25	63	26	32
14	27	14	e9.0	9.4	7.5	27	31	59	25	41	27	36
15	27	15	e8.4	12	7.4	23	38	61	32	50	27	36
16	13	14	e7.8	13	7.9	19	50	47	58	62	33	37
17	8.8	15	e7.4	10	9.1	17	56	53	83	70	47	34
18	7.7	15	e7.4	e9.0	12	16	46	45	94	44	64	34
19	7.8	16	e7.4	e8.0	11	15	31	96	89	43	63	28
20	9.7	19	e6.6	e9.0	11	13	38	116	94	44	66	34
21	11	21	e6.6	e8.4	13	10	51	92	90	46	57	29
22	9.7	25	e7.0	8.4	21	11	62	60	79	43	48	25
23	9.3	26	e8.6	8.6	16	9.3	40	34	50	40	40	17
24	9.1	24	e8.0	8.4	16	11	29	23	44	29	36	14
25	8.2	24	e8.4	7.9	15	22	27	17	27	38	34	15
26	8.4	23	e9.0	8.2	20	17	26	15	14	40	32	16
27	11	21	e10	9.3	32	14	25	89	12	43	30	19
28	15	21	e11	9.8	32	15	30	96	18	33	27	23
29	25	e18	e12	10	34	14	44	80	29	30	28	28
30	21	e17	e13	9.0	---	13	32	62	48	22	35	38
31	16	---	14	11	---	13	---	42	---	22	34	---
TOTAL	632.7	575	347.6	308.8	417.8	632.7	779.0	1643	1401	1367	1134	976
MEAN	20.4	19.2	11.2	9.96	14.4	20.4	26.0	53.0	46.7	44.1	36.6	32.5
MAX	33	33	18	15	34	57	62	116	94	70	66	60
MIN	7.7	11	6.6	7.7	7.3	6.6	4.7	15	12	22	23	14
AC-FT	1250	1140	689	613	829	1250	1550	3260	2780	2710	2250	1940

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1992, BY WATER YEAR (WY)

	MEAN	79.9	92.0	115	116	131	154	163	240	488	252	94.7	72.9
MAX	585	704	854	508	414	949	1344	1262	2255	1467	922	357	
(WY)	1984	1983	1984	1984	1969	1983	1952	1969	1983	1983	1983	1983	1983
MIN	.000	1.53	6.12	7.17	14.0	10.6	10.0	6.00	5.00	.23	.000	.000	
(WY)	1932	1932	1978	1978	1930	1931	1924	1924	1924	1931	1924	1924	1924

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1903 - 1992
ANNUAL TOTAL	9520.7	10214.6	
ANNUAL MEAN	26.1	27.9	165
HIGHEST ANNUAL MEAN			832 1983
LOWEST ANNUAL MEAN			12.9 1931
HIGHEST DAILY MEAN	78 Apr 14	116 May 20	2740 Jun 6 1986
LOWEST DAILY MEAN	3.0 Jan 1	4.7 Apr 8	.00 Aug 1 1924
ANNUAL SEVEN-DAY MINIMUM	3.8 Mar 14	5.5 Apr 3	.00 Aug 1 1924
INSTANTANEOUS PEAK FLOW		122 May 20	3280 Jul 10 1906
INSTANTANEOUS PEAK STAGE		4.76 May 28	5.90 Jul 10 1906
ANNUAL RUNOFF (AC-FT)	18880	20260	119300
10 PERCENT EXCEEDS	45	56	372
50 PERCENT EXCEEDS	28	24	73
90 PERCENT EXCEEDS	7.7	8.4	16

WALKER LAKE BASIN

135

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1968 to September 1969.

SPECIFIC CONDUCTANCE: October 1968 to September 1976.

WATER TEMPERATURE: October 1968 to September 1976.

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 792 microsiemens, December 12, 1972; minimum daily, 183 microsiemens, June 26, 1969.

WATER TEMPERATURE: Maximum daily, 34.5°C, July 24, 1975; minimum daily, freezing point on several days during winter months of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 10...	1200	29	360	8.3	27.0	15.0	6.3	9.0	106	42	120
DEC 17...	1152	7.4	420	8.2	3.5	0.0	4.6	11.7	95	K2	110
FEB 20...	1115	11	460	8.3	19.5	9.0	4.1	10.2	104	K3	K29
APR 29...	1310	35	273	8.2	30.0	23.0	15	7.6	105	230	650
AUG 25...	1345	34	290	8.3	27.0	22.0	6.0	8.7	116	18	22

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR- BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 10...	110	30	7.4	38	2	4.1	150	12	128	46	20
DEC 17...	120	35	8.0	44	2	3.7	180	--	147	48	19
FEB 20...	130	37	8.6	50	2	4.5	186	--	153	57	21
APR 29...	75	21	5.3	25	1	3.4	121	--	99	22	12
AUG 25...	82	23	5.8	27	1	3.5	124	--	102	27	11

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED TOTAL (MG/L AS N)
OCT 10...	0.60	17	228	249	0.31	0.010	<0.010	<0.050	<0.050	0.010	0.020
DEC 17...	0.70	22	279	269	0.38	<0.010	<0.010	0.067	0.076	0.010	<0.010
FEB 20...	0.70	20	300	291	0.41	<0.010	<0.010	<0.050	<0.050	0.010	0.010
APR 29...	0.60	9.6	160	159	0.22	<0.010	<0.010	<0.050	<0.050	0.020	0.030
AUG 25...	0.50	14	164	173	0.22	0.010	<0.010	<0.050	<0.050	0.020	0.020

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
OCT 10...	0.30	0.080	0.060	0.060	0.050	10	35	<3	10	39
DEC 17...	<0.20	0.070	0.040	0.040	0.050	--	--	--	--	--
FEB 20...	<0.20	0.050	0.010	0.050	0.030	<10	43	<3	8	37
APR 29...	0.30	0.070	0.040	0.040	0.030	<10	28	<3	7	30
AUG 25...	0.30	0.060	0.030	0.050	0.030	10	26	<3	4	29

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 10...	7	<10	<1	<1	<1.0	290	<6	24	1.9	91
DEC 17...	--	--	--	--	--	--	--	20	0.40	88
FEB 20...	24	<10	<1	<1	<1.0	350	<6	10	0.31	91
APR 29...	15	<10	<1	<1	<1.0	220	<6	41	3.9	96
AUG 25...	7	<10	<1	<1	<1.0	230	<6	15	1.4	91

K: NON-IDEAL COLONY COUNT

CARSON RIVER BASIN

137

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, and 1.5 mi north-northeast of Markleeville.

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 sea level, 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.

EXTREMES FOR CURRENT PERIOD.--Peak discharges above base of 1,300 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2100	*948	*3.83				
Minimum daily, 29 ft ³ /s, Sept. 8, 24.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	59	65	e52	64	157	234	555	232	116	62	50
2	55	60	e87	e51	63	146	286	486	220	100	66	e46
3	45	63	e80	e52	60	142	346	468	198	91	62	e44
4	44	65	e76	e54	e61	137	404	462	185	91	60	40
5	44	70	e72	e62	e62	139	365	463	175	84	60	34
6	43	79	e68	e69	64	142	327	496	169	80	50	31
7	43	79	e79	e69	65	136	339	588	166	77	47	30
8	49	83	e72	e63	67	128	366	593	159	73	46	29
9	51	108	e64	e61	66	122	380	559	151	65	47	34
10	51	118	e64	e56	66	118	369	472	139	63	57	47
11	51	94	e64	e54	67	122	405	466	130	70	57	46
12	52	80	67	e53	71	130	370	455	129	103	62	36
13	51	74	e64	e54	71	138	495	439	127	109	76	31
14	50	71	e66	e52	68	146	478	440	126	96	68	31
15	44	60	e66	e50	72	144	449	417	140	93	59	31
16	40	58	67	e54	64	135	386	414	136	81	48	33
17	40	96	66	e56	67	128	682	427	130	83	45	40
18	39	79	71	e54	69	123	662	385	130	74	46	38
19	39	73	66	e52	79	124	494	359	120	68	e46	35
20	39	90	61	e50	162	123	485	317	109	66	e42	33
21	39	128	e59	e50	163	122	525	282	102	63	e38	32
22	39	106	e62	e56	220	126	463	268	95	60	e38	31
23	39	92	e60	e62	171	123	409	258	94	61	e39	30
24	39	92	e62	e60	143	122	422	256	103	60	e36	29
25	39	88	e66	e59	139	132	491	262	102	60	e36	30
26	317	86	e72	e62	147	147	559	260	98	60	e35	32
27	101	86	e64	67	156	158	579	257	89	59	e39	31
28	68	76	e62	66	170	183	617	279	83	59	e42	31
29	70	74	e58	65	169	204	713	257	89	67	e44	30
30	59	68	e62	70	---	221	687	243	130	67	59	30
31	51	---	e56	67	---	210	---	256	---	66	59	---
TOTAL	1788	2455	2068	1802	2906	4428	13787	12139	4056	2365	1571	1045
MEAN	57.7	81.8	66.7	58.1	100	143	460	392	135	76.3	50.7	34.8
MAX	317	128	87	70	220	221	713	593	232	116	76	50
MIN	39	58	56	50	60	118	234	243	83	59	35	29
AC-FT	3550	4870	4100	3570	5760	8780	27350	24080	8050	4690	3120	2070

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1992, BY WATER YEAR (WY)

	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	
MEAN	83.4	117	142	169	208	264	529	1082	948	363	140	88.4																						
MAX	346	476	718	545	917	983	1121	2447	2996	1428	477	239																						
(WY)	1983	1984	1965	1980	1986	1986	1982	1969	1983	1983	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1960 - 1992
ANNUAL TOTAL	64951	50410	
ANNUAL MEAN	178	138	345
HIGHEST ANNUAL MEAN			809
LOWEST ANNUAL MEAN			83.7
HIGHEST DAILY MEAN	1110	May 25	7360
LOWEST DAILY MEAN	31	Jan 6	12
ANNUAL SEVEN-DAY MINIMUM	36	Jan 6	12
INSTANTANEOUS PEAK FLOW			948
INSTANTANEOUS PEAK STAGE			3.83
INSTANTANEOUS LOW FLOW			29
ANNUAL RUNOFF (AC-FT)	128800	99990	249800
10 PERCENT EXCEEDS	481	391	909
50 PERCENT EXCEEDS	74	71	143
90 PERCENT EXCEEDS	43	39	50

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°50'50", long 119°42'10", in SW 1/4 NE 1/4 sec.2, T.11 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on left bank, 0.1 mi downstream from Horseshoe Bend, 2 mi east of Mud Lake Reservoir, 4.5 mi downstream from Bryant Creek, and 7 mi southeast of Gardnerville.

DRAINAGE AREA.--356 mi².

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. Monthly discharge only for some periods published in WSP 1314.

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 4,985.11 ft above sea level (levels by Bureau of Reclamation). Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums.

REMARKS.--Records good 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 18	0100	*956	*2.64				
Minimum daily, 29 ft ³ /s, Sept. 24, 25.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	65	129	e64	72	158	222	568	231	119	64	56
2	57	70	125	e62	67	149	273	474	223	103	65	51
3	49	73	118	e66	61	143	330	455	198	93	64	44
4	44	75	91	e70	62	139	412	440	185	91	62	41
5	44	80	80	79	67	138	371	441	175	87	61	38
6	43	91	85	72	72	143	323	467	168	81	50	33
7	42	94	90	e70	72	140	321	576	166	78	48	31
8	46	94	85	68	74	131	350	594	162	76	46	30
9	51	120	82	e68	74	124	362	567	152	66	48	30
10	51	137	83	e67	72	120	345	458	140	61	54	44
11	54	119	e84	e68	77	123	387	445	133	67	57	48
12	55	98	84	e70	74	128	349	441	127	92	62	43
13	54	89	e83	e69	80	139	446	416	129	110	74	32
14	53	89	e82	e66	75	148	460	424	130	108	71	30
15	49	76	e81	e67	81	150	434	403	143	106	64	30
16	38	64	78	e71	69	144	365	384	149	88	53	31
17	33	103	83	76	69	136	585	420	136	89	47	39
18	33	108	82	e66	76	130	725	375	141	78	47	45
19	33	79	75	62	83	130	487	346	131	70	46	39
20	33	103	78	65	134	130	456	309	119	66	41	35
21	34	143	e78	e65	165	128	511	276	110	65	37	34
22	33	131	e78	65	218	134	455	258	102	63	37	32
23	35	108	e78	66	181	131	389	245	95	63	38	30
24	39	111	e79	e72	148	129	392	241	106	63	38	29
25	37	106	e80	e70	139	132	445	242	104	61	35	29
26	305	102	e80	e68	145	151	528	249	100	61	34	32
27	166	102	e80	66	151	157	562	243	92	59	39	33
28	90	93	78	73	165	177	597	262	84	57	41	31
29	83	79	73	65	167	201	697	255	87	64	42	31
30	75	84	76	63	---	228	728	233	117	67	58	30
31	64	---	66	74	---	216	---	252	---	67	61	---
TOTAL	1882	2886	2624	2113	2990	4527	13307	11759	4135	2419	1584	1081
MEAN	60.7	96.2	84.6	68.2	103	146	444	379	138	78.0	51.1	36.0
MAX	305	143	129	79	218	228	728	594	231	119	74	56
MIN	33	64	66	62	61	120	222	233	84	57	34	29
AC-FT	3730	5720	5200	4190	5930	8980	26390	23320	8200	4800	3140	2140

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1890 - 1992, BY WATER YEAR (WY)

MEAN	85.6	132	165	175	208	278	599	1155	978	377	138	93.1
MAX	328	1110	1127	594	947	1038	1140	2540	3056	1789	597	415
(WY)	1983	1951	1951	1970	1986	1986	1969	1890	1983	1890	1890	1890
MIN	31.2	37.9	43.2	47.8	45.7	67.8	185	205	138	62.9	29.5	19.4
(WY)	1989	1991	1991	1937	1991	1977	1977	1977	1992	1977	1977	1977

CARSON RIVER BASIN

139

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1890 - 1992	
ANNUAL TOTAL	67520		51307			
ANNUAL MEAN	185		140		377	
HIGHEST ANNUAL MEAN					857	1983
LOWEST ANNUAL MEAN					91.6	1977
HIGHEST DAILY MEAN	1160	May 25	728	Apr 30	12200	Dec 23 1955
LOWEST DAILY MEAN	31	Sep 18	29	Sep 24	11	Sep 4 1977
ANNUAL SEVEN-DAY MINIMUM	33	Oct 17	31	Sep 23	12	Sep 2 1977
INSTANTANEOUS PEAK FLOW			956	Apr 18	16700	Dec 23 1955
INSTANTANEOUS PEAK STAGE			2.64	Apr 18	11.88	Dec 23 1955
INSTANTANEOUS LOW FLOW			27	Sep 8	7.8	Nov 20 1977
ANNUAL RUNOFF (AC-FT)	133900		101800		273100	
10 PERCENT EXCEEDS	486		378		1010	
50 PERCENT EXCEEDS	85		82		154	
90 PERCENT EXCEEDS	43		39		58	

CARSON RIVER BASIN

10309000 EAST FORK CARSON RIVER NEAR GARDNERVILLE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, 1990 to current year.

REMARKS.--In April 1990, station was incorporated into the Douglas County Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	
AUG 26...	1200	35	254	23.5	16.0	71	20	5.0	23	1	2.9	
DATE		SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
AUG 26...	38	11	0.20	136	146	0.18	<0.001	<0.005	0.011	0.003	57	

CARSON RIVER BASIN

141

10309050 PINE NUT CREEK NEAR GARDNERVILLE, NV

LOCATION.--Lat 38°51'34", long 119°34'02", in NE 1/4 SE 1/4 sec.36, T.11 N., R.22 E., Douglas County, Hydrologic Unit 16050201, on right bank, 11.5 mi southeast of Gardnerville.

DRAINAGE AREA.--10.14 mi².

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,340 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft³/s, July 15, gage height, 4.32 ft; minimum daily, 0.07 ft³/s, July 9, August 21, 22, 25, 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.17	.37	.53	.50	.55	.53	.52	.18	.14	.09	.09
2	.10	.16	.38	.58	.42	.54	.50	.51	.16	.14	.09	.09
3	.10	.16	.41	.60	.40	.50	.52	.44	.16	.11	.09	.09
4	.10	.16	.40	.59	.53	.49	.52	.43	.12	.10	.09	.09
5	.10	.16	.35	.59	.57	.50	.50	.43	.12	.09	.09	.08
6	.10	.15	.37	.57	.65	.50	.49	.43	.13	.08	.09	.09
7	.10	.15	.36	.60	.65	.50	.44	.42	.14	.08	.09	.08
8	.11	.15	.41	.48	.61	.50	.45	.38	.13	.08	.09	.08
9	.11	.22	.38	.45	.58	.47	.45	.34	.12	.07	.09	.08
10	.11	.23	.41	.50	.60	.39	.47	.33	.11	.08	.09	.08
11	.11	.23	.39	.46	.54	.40	.47	.32	.10	.11	.09	.09
12	.11	.21	.38	.41	.65	.40	.50	.32	.11	.14	.08	.09
13	.11	.23	.41	.52	.61	.43	.50	.33	.15	.13	.09	.09
14	.11	.30	.41	.56	.53	.42	.53	.31	.19	.12	.08	.09
15	.11	.29	.41	.51	.54	.53	.61	.32	.31	1.6	.10	.10
16	.11	.28	.41	.45	.48	.54	.60	.33	.22	.19	.10	.10
17	.11	.45	.44	.45	.60	.51	.60	.30	.16	.15	.09	.10
18	.11	.48	.45	.37	.64	.48	.60	.28	.20	.12	.08	.12
19	.11	.36	.44	.33	.66	.47	.63	.28	.16	.09	.08	.10
20	.12	.48	.37	.38	.79	.54	.65	.31	.13	.09	.08	.09
21	.12	.50	.47	.45	.92	.49	.66	.28	.11	.08	.07	.09
22	.12	.49	.57	.45	.93	.58	.66	.26	.10	.09	.07	.09
23	.13	.50	.60	.42	.83	.55	.66	.22	.10	.09	.08	.09
24	.13	.52	.61	.43	.80	.54	.62	.23	.13	.09	.08	.10
25	.13	.42	.53	.41	.92	.58	.59	.24	.13	.09	.07	.11
26	.30	.43	.50	.41	.68	.58	.62	.23	.11	.09	.07	.11
27	.18	.54	.52	.44	.57	.55	.66	.23	.10	.09	.07	.11
28	.18	.47	.52	.43	.56	.50	.49	.20	.11	.09	.08	.10
29	.19	.53	.50	.41	.55	.54	.48	.19	.12	.09	.10	.10
30	.19	.55	.49	.47	---	.59	.53	.18	.13	.09	.11	.10
31	.18	---	.47	.50	---	.65	---	.18	---	.09	.11	---
TOTAL	3.99	9.97	13.73	14.75	18.31	15.81	16.53	9.77	4.24	4.69	2.68	2.82
MEAN	.13	.33	.44	.48	.63	.51	.55	.32	.14	.15	.086	.094
MAX	.30	.55	.61	.60	.93	.65	.66	.52	.31	1.6	.11	.12
MIN	.10	.15	.35	.33	.40	.39	.44	.18	.10	.07	.07	.08
AC-FT	7.9	20	27	29	36	31	33	19	8.4	9.3	5.3	5.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1980	.67	2.03	1984	.13	1992
1981	1.31	5.70	1984	.25	1991
1982	1.13	3.33	1984	.36	1991
1983	.99	2.05	1984	.33	1991
1984	1.68	6.78	1986	.42	1991
1985	2.22	10.2	1986	.51	1992
1986	2.05	5.04	1983	.55	1992
1987	2.02	9.44	1983	.32	1992
1988	1.26	7.26	1983	.14	1992
1989	.92	7.78	1983	.074	1981
1990	1.12	11.6	1983	.079	1991
1991	.37	1.18	1983	.094	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1980 - 1992

ANNUAL TOTAL	140.16	117.29	
ANNUAL MEAN	.38	.32	1.29
HIGHEST ANNUAL MEAN			4.29
LOWEST ANNUAL MEAN			.32
HIGHEST DAILY MEAN	1.5 Apr 4	1.6 Jul 15	60 Mar 8 1986
LOWEST DAILY MEAN	.05 Aug 11	.07 Jul 9	.05 Jul 27 1981
ANNUAL SEVEN-DAY MINIMUM	.06 Aug 7	.07 Aug 21	.05 Aug 3 1981
INSTANTANEOUS PEAK FLOW		33 Jul 15	165 Mar 8 1986
INSTANTANEOUS PEAK STAGE		4.32 Jul 15	4.32 Jul 15 1992
INSTANTANEOUS LOW FLOW		.05 Jul 9	.02 Jul 9 1981
ANNUAL RUNOFF (AC-FT)	278	233	934
10 PERCENT EXCEEDS	.76	.59	2.6
50 PERCENT EXCEEDS	.35	.31	.70
90 PERCENT EXCEEDS	.08	.09	.15

CARSON RIVER BASIN

10309070 BUCKEYE CREEK NEAR MINDEN, NV

LOCATION.--Lat 38°58'59", long 119°34'23", in NE 1/4 NW 1/4 sec.24, T.13 N., R.21 E., Douglas County, Hydrologic Unit 16050201, on left bank, 10.5 mi east of Minden.

DRAINAGE AREA.--46.3 mi².

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft above sea level, from topographic map.

REMARKS.--Records poor. No diversions above station. No flow, many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s, July 15, gage height, 5.22 ft, from rating curve extended above 20 ft³/s on basis of step-backwater method and slope-area computation at gage height 8.13 ft; no flow, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.07	.04	e.02	e.04	.02	.11	.08	.00	.00	.00	.00
2	.05	.07	e.03	e.02	.05	.02	.09	.07	.00	.00	.00	.00
3	.05	.07	.02	e.02	e.04	.01	.07	.06	.00	.00	.00	.00
4	.05	.07	.02	e.02	e.04	.01	.08	.06	.00	.00	.00	.00
5	.05	.07	.02	e.02	e.04	.01	.08	.06	.00	.00	.00	.00
6	.05	.07	e.02	e.02	e.04	.01	.08	.06	.00	.00	.00	.00
7	.05	.07	e.02	e.02	e.04	.02	.07	.05	.00	.00	.00	.00
8	.06	.07	e.02	e.02	e.03	.01	.07	.06	.00	.00	.00	.00
9	.06	.09	e.02	e.01	e.03	.01	.06	.05	.00	.00	.00	.00
10	.07	.08	e.02	e.01	.03	.01	.06	.05	.00	.00	.00	.00
11	.07	.08	e.02	e.01	e.03	.01	.06	.04	.00	.00	.00	.00
12	.07	.08	e.02	e.01	e.03	.01	.09	.04	.00	.00	.00	.00
13	.07	.08	e.02	e.01	e.02	.01	.08	.05	.00	.00	.00	.00
14	.07	.10	e.02	e.01	.02	.01	.08	.06	.00	.32	.00	.00
15	.08	.09	e.02	e.01	e.02	.01	.09	.06	.00	2.5	.00	.00
16	.08	.08	e.02	e.01	.02	.02	.09	.06	.00	.21	.00	.00
17	.08	.09	e.02	e.01	.02	.01	.07	.07	.00	.03	.00	.00
18	.08	.09	e.02	e.01	.02	.01	.07	.05	.00	.02	.00	.00
19	.08	.08	e.02	e.01	e.02	.01	.07	.04	.00	.01	.00	.00
20	.08	.08	e.02	e.01	e.02	.02	.07	.04	.00	.00	.00	.00
21	.08	.08	e.02	e.01	e.02	.02	.06	.05	.00	.00	.00	.00
22	.08	.08	e.02	e.01	e.02	.04	.08	.03	.00	.00	.00	.00
23	.08	.08	e.02	e.01	.02	.02	.08	.02	.00	.00	.00	.00
24	.09	.08	e.02	e.01	.02	.02	.08	.01	.00	.00	.00	.00
25	.09	.08	e.02	e.01	.02	.02	.07	.01	.00	.00	.00	.00
26	4.3	.07	e.02	e.01	.02	.02	.07	.02	.00	.00	.00	.00
27	.14	.09	e.02	e.01	.01	.02	.06	.01	.00	.00	.00	.00
28	.09	.07	e.02	e.01	.02	.02	.06	.01	.00	.00	.00	.00
29	.09	.08	e.02	e.02	.02	.02	.05	.00	.00	.00	.00	.00
30	.08	.04	e.02	e.02	---	.12	.07	.00	.00	.00	.00	.00
31	.07	---	e.02	e.03	---	.16	---	.00	---	.00	.00	---
TOTAL	6.49	2.33	0.65	0.43	0.77	0.73	2.22	1.27	0.00	3.09	0.00	0.00
MEAN	.21	.078	.021	.014	.027	.024	.074	.041	.000	.10	.000	.000
MAX	4.3	.10	.04	.03	.05	.16	.11	.08	.00	2.5	.00	.00
MIN	.05	.04	.02	.01	.01	.01	.05	.00	.00	.00	.00	.00
AC-FT	13	4.6	1.3	.9	1.5	1.4	4.4	2.5	.00	6.1	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1992, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	.21	.20	.27	.25	1.80	1.72	1.25	.89	.51	.24	.37	.18	
MAX	.47	.96	1.64	1.46	13.3	9.86	7.08	6.07	4.23	1.54	3.66	.60	
(WY)	1984	1984	1984	1983	1986	1986	1983	1983	1983	1988	1984	1985	
MIN	.004	.009	.007	.008	.021	.024	.042	.008	.000	.000	.000	.000	
(WY)	1981	1981	1991	1991	1991	1992	1990	1990	1990	1981	1992	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1980 - 1992

ANNUAL TOTAL	51.59	17.98	
ANNUAL MEAN	.14	.049	
HIGHEST ANNUAL MEAN			.65
LOWEST ANNUAL MEAN			2.58
HIGHEST DAILY MEAN	21	4.3	.029
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		51	1070
INSTANTANEOUS PEAK STAGE		5.22	8.13
ANNUAL RUNOFF (AC-FT)	102	36	469
10 PERCENT EXCEEDS	.09	.08	1.1
50 PERCENT EXCEEDS	.03	.02	.07
90 PERCENT EXCEEDS	.00	.00	.00

CARSON RIVER BASIN

143

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'10", long 119°49'55", 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, and 3.8 mi downstream from Willow Creek.

DRAINAGE AREA.--65.4 mi².

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. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft above sea level. 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.

REMARKS.--Records fair, except 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 11, 1937, reached a stage of 8.0 ft, present datum, from floodmarks, discharge, 3,500 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2200	*304	*2.61				
Minimum daily, 7.9 ft ³ /s, several days in Sept.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	20	21	17	41	132	151	50	32	34	15
2	13	18	19	21	16	39	142	129	47	41	23	13
3	13	19	19	21	17	38	156	124	44	44	13	16
4	13	19	18	21	17	38	147	121	43	30	12	22
5	13	19	17	20	16	39	119	121	43	24	11	21
6	13	20	19	20	16	36	106	129	42	23	11	17
7	13	21	19	20	16	36	110	144	42	22	11	15
8	13	21	18	21	16	34	118	149	43	22	11	17
9	13	25	18	e20	17	33	120	140	39	21	11	19
10	13	28	19	21	18	34	115	112	37	21	11	18
11	13	23	18	21	17	35	122	109	36	24	11	15
12	13	21	19	21	17	38	115	109	34	43	17	12
13	13	21	18	e20	17	41	178	103	34	29	32	9.1
14	13	20	19	20	17	45	154	106	35	25	22	8.6
15	13	19	18	20	17	43	143	97	38	37	21	8.5
16	13	19	18	20	17	41	120	90	42	36	17	8.3
17	13	25	19	20	17	39	227	86	50	39	13	8.3
18	13	18	19	20	18	39	201	82	46	27	12	8.7
19	13	19	17	21	17	40	149	78	44	20	11	8.5
20	13	24	20	21	21	40	142	74	42	18	11	8.2
21	13	32	20	16	24	39	150	65	34	17	10	8.2
22	14	26	20	e16	35	41	130	61	30	16	11	7.9
23	14	23	20	e16	37	42	112	58	27	16	11	7.9
24	14	23	20	16	42	45	113	58	30	15	11	7.9
25	15	22	20	15	41	47	123	59	31	15	13	7.9
26	41	21	19	15	41	56	139	60	28	15	18	7.9
27	28	20	20	15	41	71	140	59	26	14	19	8.0
28	19	18	20	16	43	86	153	60	25	14	18	7.9
29	19	17	20	15	43	104	177	54	26	18	16	7.9
30	17	17	20	16	---	109	201	53	35	20	15	7.9
31	16	---	22	16	---	109	---	52	---	30	17	---
TOTAL	470	635	592	582	688	1518	4254	2893	1123	768	474	347.6
MEAN	15.2	21.2	19.1	18.8	23.7	49.0	142	93.3	37.4	24.8	15.3	11.6
MAX	41	32	22	21	43	109	227	151	50	44	34	22
MIN	13	17	17	15	16	33	106	52	25	14	10	7.9
AC-FT	932	1260	1170	1150	1360	3010	8440	5740	2230	1520	940	689

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 1992, BY WATER YEAR (WY)

MEAN	25.7	40.0	47.4	44.2	50.6	68.9	197	349	235	91.2	43.8	28.7
MAX	79.1	321	347	140	258	283	390	791	996	433	213	120
(WY)	1983	1951	1951	1970	1963	1986	1986	1969	1983	1983	1983	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

CARSON RIVER BASIN

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1901 - 1992	
ANNUAL TOTAL	20403		14344.6		109	
ANNUAL MEAN	55.9		39.2		244	1983
HIGHEST ANNUAL MEAN					26.1	1977
LOWEST ANNUAL MEAN					3000	Feb 1 1963
HIGHEST DAILY MEAN	415	May 8	227	Apr 17	5.3	Sep 2 1977
LOWEST DAILY MEAN	10	Jan 31	7.9	Sep 22	5.4	Sep 5 1977
ANNUAL SEVEN-DAY MINIMUM	11	Jan 26	304	Apr 17	4890	Feb 1 1963
INSTANTANEOUS PEAK FLOW			2.61	Apr 17	9.00	Feb 1 1963
INSTANTANEOUS PEAK STAGE			7.9	Sep 22	5.0	Dec 28 1961
INSTANTANEOUS LOW FLOW					78970	
ANNUAL RUNOFF (AC-FT)	40470		28450		271	
10 PERCENT EXCEEDS	177		112		42	
50 PERCENT EXCEEDS	20		13		17	
90 PERCENT EXCEEDS	13					

CARSON RIVER BASIN

145

10310200 WEST FORK CARSON RIVER AT PAYNESVILLE, CA

LOCATION.--Lat 38°48'32", long 119°46'34", in NW 1/4 NE 1/4 sec.19, T.11 N., R.20 E., Alpine County, Hydrologic Unit 16050201, at Diamond Valley Road bridge, 600 ft east of State Route 88, at Paynesville, CA.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1992.

REMARKS.--In August 1992, station was incorporated into the Douglas County Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
AUG 26...	1020	16	91	14.5	11.5	33	9.4	2.3	5.0	0.4	2.2

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
AUG 26...	2.4	1.6	<0.10	48	50	0.06	<0.001	0.022	0.010	0.009	92

CARSON RIVER BASIN

10310300 FREDERICKSBURG CANYON CREEK NEAR FREDERICKSBURG, CA

LOCATION.--Lat 38°49'38", long 119°47'56", in SE 1/4 SW 1/4 sec.12, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, on left bank, 1 mi west of Fredericksburg, and 6 mi north of Woodfords.

DRAINAGE AREA.--3.71 mi².

PERIOD OF RECORD.--December 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,520 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. No diversions above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.6 ft³/s, October 26, gage height 2.25 ft; minimum daily, 0.92 ft³/s, July 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	1.3	1.4	1.4	1.2	1.8	2.7	1.2	1.1	1.1	1.3
2	1.3	1.3	1.4	1.4	1.4	1.2	1.8	2.6	1.2	1.1	1.1	1.3
3	1.3	1.2	1.3	1.4	1.4	1.3	1.9	2.5	1.2	1.1	1.1	1.2
4	1.2	1.3	1.2	1.4	1.4	1.3	1.9	2.5	1.1	1.0	1.1	1.2
5	1.2	1.3	1.3	1.5	1.3	1.3	1.8	2.3	1.2	1.0	1.1	1.2
6	1.2	1.3	1.3	1.4	1.3	1.3	1.8	2.4	1.2	1.0	1.1	1.2
7	1.3	1.3	1.3	1.4	1.3	1.3	1.9	2.4	1.2	1.0	1.1	1.2
8	1.4	1.4	1.3	1.5	1.3	1.3	1.9	2.3	1.2	.97	1.1	1.2
9	1.4	1.6	1.3	1.6	1.3	1.3	1.9	2.2	1.1	.96	1.1	1.2
10	1.4	1.5	1.3	1.6	1.3	1.3	2.1	2.1	1.1	.99	1.2	1.1
11	1.4	1.4	1.3	1.6	1.3	1.3	2.1	1.9	1.1	1.2	1.2	1.3
12	1.4	1.4	1.4	1.5	1.3	1.3	2.0	1.9	1.1	1.2	1.2	1.3
13	1.4	1.4	1.3	1.6	1.3	1.3	2.1	1.8	1.2	1.0	1.2	1.3
14	1.4	1.4	1.3	1.6	1.3	1.3	2.1	1.8	1.2	1.0	1.2	1.3
15	1.4	1.4	1.3	1.6	1.3	1.3	2.0	1.7	1.4	1.0	1.2	1.4
16	1.4	1.4	1.3	1.6	1.2	1.3	2.1	1.8	1.4	1.0	1.2	1.3
17	1.4	1.5	1.3	1.6	1.2	1.3	2.9	1.7	1.3	.96	1.2	1.3
18	1.4	1.4	1.3	1.6	1.2	1.4	2.3	1.6	1.2	.92	1.1	1.4
19	1.5	1.4	1.3	1.6	1.2	1.3	2.2	1.6	1.1	.92	1.2	1.4
20	1.6	1.6	1.3	1.5	1.2	1.3	2.3	1.7	1.1	.96	1.3	1.4
21	1.6	1.4	1.3	1.6	1.3	1.4	2.3	1.6	1.0	1.0	1.2	1.4
22	1.6	1.4	1.3	1.5	1.5	1.3	2.2	1.5	1.0	1.0	1.3	1.4
23	1.7	1.4	1.3	1.4	1.3	1.3	2.1	1.4	1.0	1.1	1.3	1.3
24	1.6	1.3	1.3	1.4	1.2	1.3	2.2	1.4	1.1	1.1	1.3	1.3
25	1.7	1.3	1.3	1.4	1.2	1.4	2.3	1.5	1.1	1.1	1.3	1.4
26	2.4	1.3	1.4	1.3	1.2	1.4	2.4	1.5	1.1	1.0	1.3	1.4
27	1.4	1.4	1.4	1.3	1.2	1.4	2.5	1.4	1.0	1.0	1.3	1.3
28	1.3	1.4	1.4	1.4	1.2	1.5	2.7	1.4	1.0	1.0	1.2	1.3
29	1.3	1.3	1.4	1.4	1.2	1.6	2.9	1.4	1.1	1.0	1.3	1.3
30	1.2	1.3	1.4	1.4	---	1.7	2.9	1.4	1.1	1.1	1.3	1.3
31	1.2	---	1.4	1.4	---	1.7	---	1.3	---	1.1	1.4	---
TOTAL	44.2	41.2	41.0	45.9	37.2	41.9	65.4	57.3	34.3	31.88	37.3	38.9
MEAN	1.43	1.37	1.32	1.48	1.28	1.35	2.18	1.85	1.14	1.03	1.20	1.30
MAX	2.4	1.6	1.4	1.6	1.5	1.7	2.9	2.7	1.4	1.2	1.4	1.4
MIN	1.2	1.2	1.2	1.3	1.2	1.2	1.8	1.3	1.0	.92	1.1	1.1
AC-FT	88	82	81	91	74	83	130	114	68	63	74	77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	1.49	1.61	1.55	1.43
MAX	1.75	1.89	2.00	1.81
(WY)	1990	1990	1990	1990
MIN	1.30	1.37	1.32	1.18
(WY)	1991	1992	1992	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	575.9	516.48	1.62
ANNUAL MEAN	1.58	1.41	1.85
HIGHEST ANNUAL MEAN			1.41
LOWEST ANNUAL MEAN			1.41
HIGHEST DAILY MEAN	3.7 May 25	2.9 Apr 17	5.7 May 9 1989
LOWEST DAILY MEAN	1.1 Jan 21	.92 Jul 18	.92 Jul 18 1992
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 13	.97 Jul 14	.97 Jul 14 1992
INSTANTANEOUS PEAK FLOW		3.6 Oct 26	6.5 May 8 1989
INSTANTANEOUS PEAK STAGE		2.25 Oct 26	2.37 May 8 1989
ANNUAL RUNOFF (AC-FT)	1140	1020	1170
10 PERCENT EXCEEDS	2.4	1.9	2.8
50 PERCENT EXCEEDS	1.4	1.3	1.6
90 PERCENT EXCEEDS	1.2	1.1	1.2

CARSON RIVER BASIN

147

10310350 MILLER SPRING NEAR SHERIDAN, NV

LOCATION.--Lat 38°52'43", long 119°49'07", in NE 1/4 NW 1/4 sec.26, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank, 1.25 mi south of Sheridan, 3 mi southwest of Centerville, and 6 mi southwest of Minden.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,780 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.1 ft³/s, October 26, gage height 2.28 ft; minimum daily, 0.26 ft³/s, October 1-7 and June 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.41	.38	.35	.39	.37	.39	.35	.31	.30	.40	.52
2	.26	.41	.38	.35	.39	.37	.39	.35	.29	.30	.40	.47
3	.26	.41	.37	.37	.39	.37	.39	.35	.29	.30	.40	.46
4	.26	.41	.39	.37	.39	.37	.39	.35	.29	.30	.40	.47
5	.26	.41	.39	.37	.39	.37	.39	.36	.29	.30	.41	.47
6	.26	.42	.37	.37	.39	.37	.37	.35	.29	.27	.41	.46
7	.26	.43	.40	.37	.39	.37	.38	.35	.29	.28	.42	.46
8	.28	.43	.39	.37	.39	.37	.39	.35	.29	.29	.42	.46
9	.28	.43	.38	.37	.39	.37	.38	.35	.27	.29	.42	.46
10	.28	.43	.37	.37	.39	.37	.37	.34	.27	.30	.42	.47
11	.29	.43	.34	.38	.39	.37	.36	.33	.28	.33	.42	.47
12	.29	.43	.34	.39	.39	.37	.38	.33	.28	.33	.43	.47
13	.30	.43	.34	.39	.39	.37	.37	.33	.29	.31	.44	.46
14	.30	.44	.34	.40	.39	.37	.37	.35	.30	.33	.44	.45
15	.30	.44	.34	.40	.39	.38	.37	.34	.31	.33	.45	.44
16	.31	.44	.33	.39	.37	.39	.35	.35	.29	.36	.44	.43
17	.31	.46	.33	.39	.37	.38	.35	.35	.28	.37	.44	.44
18	.31	.45	.35	.39	.37	.39	.36	.35	.30	.37	.44	.46
19	.31	.45	.34	.39	.37	.39	.37	.37	.30	.38	.44	.45
20	.31	.45	.34	.39	.37	.38	.37	.37	.30	.38	.48	.45
21	.31	.45	.34	.39	.37	.37	.35	.36	.29	.38	.52	.44
22	.33	.45	.34	.39	.37	.37	.35	.35	.27	.37	.54	.43
23	.34	.45	.34	.39	.37	.37	.36	.33	.26	.37	.55	.44
24	.32	.45	.34	.39	.37	.37	.37	.33	.27	.38	.55	.45
25	.33	.44	.34	.39	.37	.38	.36	.32	.27	.38	.54	.46
26	.65	.43	.35	.37	.35	.39	.35	.30	.27	.38	.54	.46
27	.46	.42	.35	.38	.35	.39	.35	.31	.27	.37	.56	.44
28	.45	.39	.35	.39	.36	.39	.35	.31	.29	.38	.55	.44
29	.44	.39	.35	.39	.37	.39	.36	.31	.30	.38	.56	.44
30	.41	.39	.35	.39	---	.40	.36	.31	.30	.40	.55	.44
31	.41	---	.35	.39	---	.39	---	.31	---	.40	.53	---
TOTAL	10.14	12.87	11.01	11.83	10.98	11.70	11.05	10.51	8.60	10.61	14.51	13.66
MEAN	.33	.43	.36	.38	.38	.38	.37	.34	.29	.34	.47	.46
MAX	.65	.46	.40	.40	.39	.40	.39	.37	.31	.40	.56	.52
MIN	.26	.39	.33	.35	.35	.37	.35	.30	.26	.27	.40	.43
AC-FT	20	26	22	23	22	23	22	21	17	21	29	27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	.39	.45	.43	.46	.45	.46	.48	.46	.46	.45	.38	.38
MAX	.47	.51	.53	.60	.64	.62	.60	.63	.73	.72	.47	.46	
(WY)	1990	1990	1990	1990	1990	1990	1989	1990	1990	1990	1992	1992	
MIN	.33	.40	.36	.38	.35	.31	.33	.34	.29	.32	.30	.26	
(WY)	1992	1991	1992	1992	1991	1991	1991	1992	1992	1991	1991	1991	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	125.90	137.47	
ANNUAL MEAN	.34	.38	.43
HIGHEST ANNUAL MEAN			.57
LOWEST ANNUAL MEAN			.35
HIGHEST DAILY MEAN	.65 Oct 26	.65 Oct 26	.85 Jul 12 1990
LOWEST DAILY MEAN	.24 Sep 16	.26 Oct 1	.24 Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	.25 Sep 13	.26 Oct 1	.25 Sep 13 1991
INSTANTANEOUS PEAK FLOW		1.1 Oct 26	1.1 Jul 11 1990
INSTANTANEOUS PEAK STAGE		2.28 Oct 26	2.28 Oct 26 1991
ANNUAL RUNOFF (AC-FT)	250	273	313
10 PERCENT EXCEEDS	.42	.45	.62
50 PERCENT EXCEEDS	.34	.37	.40
90 PERCENT EXCEEDS	.27	.29	.30

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 mi².

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 sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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. The minimum daily discharge for period of record, 0.38 ft³/s, occurred October 9-11, 1979, August 21, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s, October 26, gage height, 1.37 ft; minimum daily, 0.49 ft³/s, September 12-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.2	1.1	1.2	e1.1	.95	1.4	1.3	.95	.75	.56	.56
2	.71	1.2	1.1	1.2	e1.1	.96	1.3	1.2	.97	.73	.58	.57
3	.69	1.2	1.2	1.2	e1.1	.97	1.4	1.1	.97	.73	.59	.58
4	.64	1.2	1.2	1.2	e1.1	.98	1.4	1.1	.94	.72	.61	.56
5	.63	1.2	1.1	1.2	e1.0	.99	1.4	1.1	.97	.73	.59	.58
6	.60	1.3	1.1	1.2	e1.0	1.1	1.3	1.1	1.0	.71	.58	.57
7	.60	1.3	1.1	1.2	e1.0	1.1	1.3	1.1	1.0	.72	.60	.56
8	.58	1.3	1.1	1.2	e1.0	1.3	1.4	1.1	.96	.72	.59	.59
9	.52	1.3	1.1	1.3	e1.0	1.2	1.4	1.1	.98	.72	.56	.55
10	.52	1.3	1.1	1.2	e1.0	1.2	1.4	1.1	.90	.72	.56	.51
11	.50	1.3	1.1	1.2	e1.0	1.2	1.3	1.1	.85	.75	.57	.50
12	.53	1.3	1.1	1.2	e1.0	1.2	1.5	1.1	.97	.89	.57	.49
13	.53	1.4	1.2	1.2	e1.0	1.2	1.5	1.1	1.0	.68	.58	.49
14	.55	1.5	1.2	1.2	e1.0	1.2	1.6	1.1	1.3	.66	.63	.49
15	.61	1.4	1.2	1.1	e1.0	1.1	1.6	1.1	1.8	.65	.64	.49
16	.68	1.4	1.1	1.1	e1.0	1.2	1.4	1.1	1.3	.63	.63	.50
17	.75	1.9	1.1	1.1	e1.0	1.2	1.5	1.1	1.3	.65	.59	.64
18	.83	1.3	1.1	e1.1	e1.0	1.2	1.4	1.1	1.2	.64	.58	.64
19	.86	1.2	1.1	e1.1	e1.0	1.2	1.4	1.1	1.2	.64	.56	.60
20	.91	1.3	1.1	e1.1	e1.0	1.2	1.3	1.0	1.1	.63	.56	.60
21	.98	1.2	1.1	e1.3	e1.1	1.3	1.3	1.0	1.1	.63	.58	.58
22	.88	1.2	1.2	e1.2	e1.3	1.4	1.3	1.0	1.1	.64	.59	.57
23	.82	1.2	1.1	e1.1	e1.2	1.3	1.3	1.0	1.1	.65	.60	.61
24	.85	1.2	1.1	e1.1	e1.2	1.3	1.3	1.0	1.3	.66	.61	.63
25	.98	1.2	1.2	e1.1	e1.2	1.4	1.3	1.0	.95	.65	.60	.65
26	6.1	1.2	1.2	e1.0	1.2	1.4	1.3	1.0	.77	.65	.61	.66
27	1.4	1.2	1.1	e1.0	1.1	1.4	1.3	.83	.73	.64	.60	.63
28	1.3	1.1	1.2	e1.1	1.1	1.5	1.3	.90	.77	.62	.62	.62
29	1.2	1.1	1.2	e1.1	.98	1.4	1.3	.90	.78	.60	.63	.63
30	1.2	1.1	1.2	e1.1	---	1.8	1.3	.91	.77	.59	.67	.67
31	1.2	---	1.2	e1.1	---	1.8	---	.94	---	.59	.58	---
TOTAL	29.94	38.2	35.3	35.7	30.78	38.65	41.2	32.68	31.03	20.99	18.42	17.32
MEAN	.97	1.27	1.14	1.15	1.06	1.25	1.37	1.05	1.03	.68	.59	.58
MAX	6.1	1.9	1.2	1.3	1.3	1.8	1.6	1.3	1.8	.89	.67	.67
MIN	.50	1.1	1.1	1.0	.98	.95	1.3	.83	.73	.59	.56	.49
AC-FT	59	76	70	71	61	77	82	65	62	42	37	34

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1992, BY WATER YEAR (WY)

	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1.45	1.81	1.62	1.85	1.83	1.98	2.06	2.52	2.30	1.83	1.63	1.39															
MAX	3.48	3.49	3.64	3.40	3.72	3.86	3.35	4.73	6.84	5.30	7.29	4.20															
(WY)	1970	1969	1971	1970	1970	1970	1983	1967	1983	1969	1969	1970															
MIN	.69	.83	.90	.98	1.04	1.06	1.21	.98	.72	.67	.59	.56															
(WY)	1980	1980	1980	1989	1991	1977	1977	1990	1990	1989	1992	1979															

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1966 - 1992

ANNUAL TOTAL	418.83	370.21	
ANNUAL MEAN	1.15	1.01	
HIGHEST ANNUAL MEAN			1.90
LOWEST ANNUAL MEAN			3.57
HIGHEST DAILY MEAN	6.1 Oct 26	6.1 Oct 26	18 Feb 16 1982
LOWEST DAILY MEAN	.50 Oct 11	.49 Sep 12	.38 Oct 9 1979
ANNUAL SEVEN-DAY MINIMUM	.53 Oct 8	.50 Sep 10	.45 Oct 5 1979
INSTANTANEOUS PEAK FLOW		21 Oct 26	63 Aug 5 1971
INSTANTANEOUS PEAK STAGE		1.37 Oct 26	2.78 Aug 5 1971
ANNUAL RUNOFF (AC-FT)	831	734	1380
10 PERCENT EXCEEDS	1.8	1.3	3.3
50 PERCENT EXCEEDS	1.1	1.1	1.5
90 PERCENT EXCEEDS	.67	.58	.83

149

LOCATION.--Lat 39°06'48", long 119°47'50", in NE 1/4 NW 1/4 sec.1, T.14 N., R.19 E., on left bank, 3 mi upstream from mouth, and 3.5 mi southwest of Carson City.

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 sea level, from topographic map.

REMARKS.--Records good except for periods of backwater conditions, November 11-15, February 27 through March 6, March 30 through April 8, April 16 through May 29, July 7 through September 22, which are fair, and estimated daily discharges, which are poor. A few small diversions for irrigation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s, October 26, gage height, 1.62 ft; maximum gage height, 3.07 ft, February 27, backwater conditions; minimum daily, 0.42 ft³/s, August 3, 6, 8, 22.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.4	3.6	2.7	e3.1	e3.5	3.2	1.7	1.0	1.1	.60	1.0
2	1.1	2.2	2.8	e2.7	e3.1	e3.5	3.2	1.6	.97	1.3	.60	.99
3	1.1	2.1	2.6	2.7	e3.2	e3.5	3.2	1.5	.94	1.6	.42	.99
4	1.2	2.0	2.5	2.7	e3.1	e3.5	3.2	1.4	1.1	1.5	.44	1.1
5	1.0	2.0	2.5	2.8	e3.1	e3.7	3.2	1.4	1.3	1.4	.43	1.1
6	1.1	1.9	2.5	2.8	e3.1	e3.7	3.2	1.4	1.3	1.5	.42	1.0
7	1.2	2.0	2.7	3.0	e3.2	3.6	3.2	1.4	1.4	1.6	.46	1.1
8	1.3	2.1	2.6	2.9	e3.2	3.5	3.2	1.5	1.4	1.1	.42	.88
9	1.3	2.4	2.6	3.3	e3.1	3.4	3.0	1.4	1.3	.99	.46	.90
10	1.3	2.3	2.7	3.0	e3.0	3.3	2.9	1.3	1.3	1.0	.47	1.3
11	1.2	2.3	2.7	3.0	e3.1	3.3	3.0	1.3	1.3	1.0	.74	1.4
12	1.4	2.0	2.7	3.1	e3.1	3.3	3.0	1.3	1.4	1.1	.99	e1.4
13	1.4	2.0	2.7	3.2	e3.1	3.3	3.2	1.5	1.5	.97	1.0	e1.3
14	1.4	2.6	2.7	3.0	e3.1	3.2	3.2	1.4	2.1	.83	.87	e1.2
15	1.4	2.3	2.7	2.9	e3.1	3.2	3.4	1.5	2.3	.98	.98	e1.0
16	1.2	2.3	2.6	3.0	e3.0	3.3	3.2	1.6	2.1	.82	.99	.81
17	.96	3.8	2.8	3.2	e2.9	3.3	3.3	1.6	2.2	.71	.89	.99
18	.97	3.1	3.1	3.3	e3.1	3.2	3.2	1.4	2.3	.56	.88	1.0
19	1.1	2.8	2.9	3.4	e3.3	3.2	3.1	1.4	2.1	.57	.87	.60
20	1.2	3.4	2.9	e3.3	e3.5	3.1	3.1	1.7	1.9	.84	.86	.59
21	1.2	3.1	e2.9	e3.2	e3.7	3.1	3.0	1.6	1.8	.82	.67	1.1
22	1.2	2.8	e2.9	e3.1	e4.3	3.9	2.6	1.4	1.3	.79	.42	1.5
23	1.4	2.6	2.9	e3.1	e4.7	3.6	2.2	1.4	1.3	.81	.56	.99
24	1.6	2.6	2.8	e3.1	e4.3	3.4	2.2	1.4	1.4	.80	.64	.85
25	1.6	2.6	2.8	e3.2	e4.0	3.3	2.1	1.2	1.2	.77	.66	1.0
26	7.0	2.4	2.8	e3.1	e4.0	3.3	1.9	1.2	.95	.76	.66	1.2
27	3.5	2.9	2.8	e3.1	e4.0	3.1	1.8	1.2	.95	.67	.68	1.2
28	2.8	2.6	2.8	e3.1	e4.0	3.2	1.8	1.1	1.2	.64	.82	1.1
29	2.8	2.5	2.8	e3.1	e3.8	3.2	1.7	1.1	1.3	.62	.90	1.1
30	2.6	2.4	2.8	e3.1	---	3.2	1.6	1.1	1.1	.58	1.1	.92
31	2.6	---	2.7	e3.1	---	3.2	---	1.1	---	.52	1.0	---
TOTAL	52.33	74.5	85.9	94.3	99.3	104.1	84.1	43.1	43.71	29.25	21.90	31.61
MEAN	1.69	2.48	2.77	3.04	3.42	3.36	2.80	1.39	1.46	.94	.71	1.05
MAX	7.0	3.8	3.6	3.4	4.7	3.9	3.4	1.7	2.3	1.6	1.1	1.5
MIN	.96	1.9	2.5	2.7	2.9	3.1	1.6	1.1	.94	.52	.42	.59
AC=FT	104	148	170	187	197	206	167	85	87	58	43	63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1992, BY WATER YEAR (WY)

MEAN	2.84	4.23	5.54	5.84	6.65	6.89	8.50	7.20	4.19	2.48	2.06	2.17
MAX	6.54	11.2	15.3	12.0	10.2	11.6	30.9	26.8	15.0	8.09	5.75	5.73
(WY)	1953	1951	1951	1953	1951	1952	1952	1952	1952	1952	1952	1952
MIN	1.54	1.89	2.31	2.13	3.24	3.36	2.80	1.39	1.46	.94	.71	1.05
(WY)	1961	1962	1962	1962	1991	1992	1992	1992	1992	1992	1992	1992

WATER YEARS 1948 - 1992

ANNUAL TOTAL	895.45		764.10					
ANNUAL MEAN	2.45		2.09			4.90		
HIGHEST ANNUAL MEAN						11.2		1952
LOWEST ANNUAL MEAN						2.09		1992
HIGHEST DAILY MEAN	11	Mar 4	7.0	Oct 26		78		Dec 23 1955
LOWEST DAILY MEAN	.77	Jul 23	.42	Aug 3		.42		Aug 3 1992
ANNUAL SEVEN-DAY MINIMUM	.86	Jul 29	.44	Aug 3		.44		Aug 3 1992
INSTANTANEOUS PEAK FLOW			14	Oct 26		130		Feb 20 1968
INSTANTANEOUS PEAK STAGE			1.62	Oct 26		2.15		Feb 20 1968
ANNUAL RUNOFF (AC-FT)	1780		1520			3550		
10 PERCENT EXCEEDS	3.7		3.3			9.2		
50 PERCENT EXCEEDS	2.6		2.0			3.7		
90 PERCENT EXCEEDS	1.1		.82			1.4		

10311000 CARSON RIVER NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'30", long 119°42'40", 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, and 5 mi southeast of Carson City Post Office.

DRAINAGE AREA.--886 mi².

WATER-DISCHARGE RECORDS

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 sea level. 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.--No estimated daily discharges. Records fair. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 27	0700	*552	*3.57				

Minimum daily, 0.0 ft³/s, Sept. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	93	128	99	145	214	237	301	79	24	5.7	5.1
2	34	85	123	105	137	203	218	245	70	47	13	.85
3	23	91	142	110	129	196	200	224	68	37	5.2	.26
4	8.0	89	151	130	110	194	232	204	49	16	4.6	.32
5	15	81	145	137	100	196	295	187	37	26	6.0	.00
6	23	82	142	138	108	201	226	195	36	40	6.3	2.6
7	9.4	92	149	128	122	205	162	223	29	36	3.8	8.6
8	29	96	158	127	124	197	142	272	38	25	4.4	4.5
9	28	102	153	105	117	187	165	288	59	11	7.5	5.1
10	35	133	150	92	122	154	159	250	53	11	6.8	4.4
11	44	147	147	115	123	141	145	207	53	5.6	3.9	1.8
12	54	131	145	129	143	145	159	206	36	8.7	2.8	7.2
13	63	115	110	124	143	153	159	225	43	24	10	9.3
14	61	104	107	113	136	157	248	207	50	53	15	1.8
15	62	106	116	123	123	168	255	189	69	44	13	3.6
16	47	99	127	123	133	176	173	183	98	25	14	4.9
17	36	103	110	133	122	152	132	184	99	9.7	8.4	6.8
18	26	195	112	136	114	129	425	183	66	19	4.3	13
19	23	182	121	143	113	137	345	159	62	12	3.8	16
20	35	156	111	124	122	146	289	144	52	5.1	2.3	17
21	52	159	84	112	183	144	269	126	42	20	4.6	21
22	53	184	86	148	214	135	265	117	62	7.2	3.5	17
23	57	173	126	136	238	151	218	105	52	9.5	2.9	8.8
24	62	161	125	130	194	121	181	90	44	10	3.5	19
25	66	165	118	140	173	134	201	82	26	8.8	.58	22
26	99	160	123	155	168	122	278	81	23	5.1	.19	19
27	369	158	126	144	172	125	311	80	15	11	.55	8.4
28	231	160	117	137	182	128	299	79	8.1	7.1	3.8	11
29	162	150	124	147	203	127	309	86	9.1	7.3	.27	5.5
30	134	142	123	136	---	146	374	81	20	7.2	1.6	3.5
31	112	---	113	136	---	237	---	74	---	7.3	7.7	---
TOTAL	2068.4	3894	3912	3955	4213	5021	7071	5277	1447.2	579.6	169.99	248.33
MEAN	66.7	130	126	128	145	162	236	170	48.2	18.7	5.48	8.28
MAX	369	195	158	155	238	237	425	301	99	53	15	22
MIN	8.0	81	84	92	100	121	132	74	8.1	5.1	.19	.00
AC-FT	4100	7720	7760	7840	8360	9960	14030	10470	2870	1150	337	490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1992, BY WATER YEAR (WY)

MEAN	98.2	217	297	337	386	388	594	1152	938	245	56.5	46.6
MAX	527	1693	1992	1087	2115	1573	1467	3129	4099	1569	657	281
(WY)	1983	1951	1951	1980	1986	1986	1982	1969	1983	1983	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1940 - 1992

ANNUAL TOTAL	53606.6		37856.52			
ANNUAL MEAN	147		103		396	
HIGHEST ANNUAL MEAN					1142	1983
LOWEST ANNUAL MEAN					58.5	1977
HIGHEST DAILY MEAN	1150	May 26	425	Apr 18	20400	Dec 24 1955
LOWEST DAILY MEAN	4.9	Sep 28	.00	Sep 5	.00	Sep 5 1992
ANNUAL SEVEN-DAY MINIMUM	12	Aug 8	1.5	Aug 24	1.5	Aug 24 1992
INSTANTANEOUS PEAK FLOW			552	Oct 27	30000	Dec 24 1955
INSTANTANEOUS PEAK STAGE			3.57	Oct 27	16.00	Dec 24 1955
ANNUAL RUNOFF (AC-FT)	106300		75090		286700	
10 PERCENT EXCEEDS	344		204		1040	
50 PERCENT EXCEEDS	98		110		180	
90 PERCENT EXCEEDS	17		5.6		20	

CARSON RIVER BASIN

10311000 CARSON RIVER NEAR CARSON CITY, NV--Continued

151

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1977-84, 1990 to current year.

REMARKS.--In April 1990, station was incorporated into the Douglas County Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
AUG 25...	1455	1.0	682	27.0	170	52	9.2	75	3	1.9	160

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
AUG 25...	29	1.3	442	415	0.60	<0.001	<0.005	0.030	0.195	7

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, 2.9 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA--1.83 mi².

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,530 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Periodic regulation for municipal use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.3 ft³/s, November 20, gage height 2.55 ft; minimum daily, 0.06 ft³/s, May 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.32	.44	.31	.23	.32	.41	.22	.16	.27	.11	.25
2	.48	.20	.25	.32	.31	.31	.41	.14	.23	.29	.11	.25
3	.48	.20	.24	.28	.32	.31	.41	.24	.23	.26	.24	.25
4	.39	.19	.29	.25	.31	.31	.41	.24	.23	.13	.30	.23
5	.20	.18	.29	.31	.31	.33	.39	.24	.19	.22	.25	.14
6	.21	.29	.25	.31	.31	.36	.38	.25	.09	.30	.23	.16
7	.38	.36	.20	.29	.29	.34	.38	.26	.09	.32	.17	.30
8	.50	.30	.31	.29	.22	.36	.38	.21	.17	.32	.11	.27
9	.56	.26	.32	.29	.31	.37	.38	.12	.23	.34	.12	.28
10	.40	.37	.31	.26	.31	.37	.37	.24	.23	.31	.22	.28
11	.27	.36	.31	.25	.33	.37	.37	.24	.25	.17	.22	.25
12	.18	.36	.32	.31	.33	.37	.38	.23	.26	.17	.24	.17
13	.18	.78	.26	.31	.34	.36	.38	.24	.12	.23	.24	.29
14	.27	1.0	.22	.31	.31	.37	.38	.24	.14	.28	.25	.29
15	.35	.36	.29	.31	.33	.39	.37	.19	.27	.28	.13	.27
16	.35	.30	.29	.33	.32	.39	.36	.08	.42	.27	.15	.27
17	.35	1.3	.30	.29	.33	.38	.35	.07	.61	.23	.16	.30
18	.30	1.8	.34	.24	.33	.38	.21	.07	.43	.11	.25	.28
19	.20	1.9	.33	.30	.35	.38	.33	.07	.23	.11	.25	.15
20	.20	2.1	.33	.31	.42	.39	.33	.12	.13	.20	.25	.15
21	.28	2.2	.28	.31	.42	.40	.32	.19	.13	.26	.27	.22
22	.37	.94	.31	.29	.41	.42	.30	.16	.22	.26	.15	.27
23	.39	.29	.31	.30	.34	.41	.30	.06	.27	.26	.14	.28
24	.41	.69	.29	.27	.33	.41	.25	.07	.29	.22	.19	.39
25	.35	.44	.30	.22	.34	.41	.19	.14	.29	.12	.28	.49
26	.23	.26	.31	.27	.34	.41	.32	.20	.24	.12	.25	.14
27	.15	.38	.27	.25	.32	.41	.33	.21	.13	.19	.26	.22
28	.14	.38	.25	.29	.31	.43	.33	.21	.14	.23	.23	.28
29	.27	.24	.31	.29	.32	.43	.32	.19	.24	.23	.14	.27
30	.36	.24	.31	.30	---	.47	.29	.08	.31	.23	.15	.26
31	.38	---	.31	.26	---	.45	---	.08	---	.19	.21	---
TOTAL	10.06	18.99	9.14	8.92	9.44	11.81	10.33	5.30	6.97	7.12	6.27	7.65
MEAN	.32	.63	.29	.29	.33	.38	.34	.17	.23	.23	.20	.25
MAX	.56	2.2	.44	.33	.42	.47	.41	.26	.61	.34	.30	.49
MIN	.14	.18	.20	.22	.22	.31	.19	.06	.09	.11	.11	.14
AC-FT	20	38	18	18	19	23	20	11	14	14	12	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	.56	.72	.53	.52	.44	.52	.44	.28	.48	.48	.45	.44
MAX	.92	.99	.79	.75	.64	.69	.68	.42	1.06	1.05	.97	.89	
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1989	1989	1989	1989	
MIN	.32	.54	.29	.29	.33	.38	.22	.17	.23	.23	.20	.25	
(WY)	1992	1991	1992	1992	1992	1992	1989	1992	1992	1992	1992	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	134.58	112.00	
ANNUAL MEAN	.37	.31	.44
HIGHEST ANNUAL MEAN			.61
LOWEST ANNUAL MEAN			.31
HIGHEST DAILY MEAN	2.2 Nov 21	2.2 Nov 21	2.4 Nov 13 1989
LOWEST DAILY MEAN	.11 Aug 2	.06 May 23	.06 May 23 1992
ANNUAL SEVEN-DAY MINIMUM	.17 Aug 2	.11 May 17	.11 May 17 1992
INSTANTANEOUS PEAK FLOW		2.3 Nov 20	3.6 Nov 13 1989
INSTANTANEOUS PEAK STAGE		2.55 Nov 20	2.86 Nov 13 1989
ANNUAL RUNOFF (AC-FT)	267	222	316
10 PERCENT EXCEEDS	.55	.41	.93
50 PERCENT EXCEEDS	.31	.29	.38
90 PERCENT EXCEEDS	.20	.15	.21

CARSON RIVER BASIN

153

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.12 E., Carson City, Hydrologic Unit 16050201, 2.9 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,530 ft above sea level, from topographic map.

REMARKS.--Records fair except for periods of estimated daily discharges, which are poor. Periodic diversions for municipal use. Minimum daily, 0.03 ft³/s occurred several days September 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.6 ft³/s, June 16 and 17, gage height, 2.05 ft; minimum daily, 0.08 ft³/s, November 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.42	e.47	e.55	.67	.46	.33	.54	.56	.38	.51	.31
2	.33	.54	e.50	e.51	.53	.50	.33	.67	.40	.33	.51	.30
3	.35	.53	.53	.58	.53	.53	.33	.46	.40	.34	.38	.27
4	.46	.53	.53	.65	.53	.53	.33	.46	.40	.51	.26	.33
5	.65	.40	.53	.60	.53	.48	.36	.46	.47	.38	.27	.46
6	.60	.33	.53	.60	.53	.46	.33	.43	.65	.26	.36	.49
7	.43	.41	.68	.60	.60	.46	.33	.40	.66	.21	.42	.30
8	.30	.52	.62	.53	.68	.42	.33	.48	.51	.21	.54	.27
9	.21	.33	.53	.53	.53	.40	.39	.61	.42	.21	.56	.27
10	.41	.32	.53	.59	.53	.39	.40	.46	.39	.30	.43	.27
11	.55	.27	.53	.62	.53	.40	.40	.43	.37	.53	.36	.32
12	.64	.15	.53	.53	.53	.40	.40	.40	.35	.62	.37	.43
13	.64	.08	.53	.53	.53	.40	.40	.40	.60	.47	.38	.27
14	.58	.31	.69	.53	.53	.37	.40	.40	.67	.33	.47	.33
15	.46	.46	.69	.53	.53	.33	.40	.47	.48	.33	.56	.30
16	.46	.34	.53	.53	.53	.33	.39	.71	1.3	.33	.50	.27
17	.46	.27	.53	.59	.52	.33	.45	.75	1.6	.38	.39	.27
18	.49	.31	.53	.63	.53	.33	.60	.75	.10	.56	.31	.37
19	.56	.31	.53	.60	.53	.33	.40	.75	.33	.56	.30	.48
20	.53	.27	.53	.60	.57	.30	.40	.65	.46	.43	.30	.46
21	.43	.33	.62	.60	.56	.27	.40	.50	.45	.33	.35	.35
22	.35	.43	.59	.60	.56	.31	.40	.54	.34	.33	.48	.27
23	.33	.12	.53	.60	.53	.29	.40	.74	.27	.33	.50	.27
24	.27	.37	.53	.65	.52	.27	.48	.73	.27	.38	.40	.30
25	.37	.53	.53	.72	.47	.27	.68	.58	.27	.54	.32	.42
26	.79	.55	.53	.67	.46	.27	.48	.46	.32	.53	.29	.49
27	.68	.48	e.56	.67	.46	.27	.46	.46	.46	.41	.30	.40
28	.60	.56	e.60	.62	.46	.27	.46	.46	.46	.33	.34	.33
29	.45	.59	e.53	.60	.46	.27	.46	.54	.41	.33	.48	.31
30	.33	.60	e.53	.60	---	.29	.46	.75	.31	.31	.52	.31
31	.33	---	e.54	.66	---	.33	---	.73	---	.37	.40	---
TOTAL	14.37	11.66	17.16	18.42	15.47	11.26	12.38	17.17	14.68	11.86	12.56	10.22
MEAN	.46	.39	.55	.59	.53	.36	.41	.55	.49	.38	.41	.34
MAX	.79	.60	.69	.72	.68	.53	.68	.75	1.6	.62	.56	.49
MIN	.21	.08	.47	.51	.46	.27	.33	.40	.10	.21	.26	.27
AC-FT	29	23	34	37	31	22	25	34	29	24	25	20

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

MEAN	.50	.43	.49	.47	.44	.47	.62	.72	.54	.53	.51	.43
MAX	.62	.50	.55	.59	.53	.58	1.02	1.09	.80	.86	.87	.73
(WY)	1990	1990	1992	1992	1992	1991	1989	1989	1989	1989	1989	1989
MIN	.43	.39	.41	.39	.36	.36	.41	.50	.38	.38	.38	.24
(WY)	1991	1991	1991	1991	1991	1992	1992	1990	1990	1992	1991	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	167.31	167.21	
ANNUAL MEAN	.46	.46	.46
HIGHEST ANNUAL MEAN			.47 1990
LOWEST ANNUAL MEAN			.44 1991
HIGHEST DAILY MEAN	.99 Mar 5	1.6 Jun 17	1.7 Mar 19 1989
LOWEST DAILY MEAN	.03 Sep 17	.08 Nov 13	.00 Feb 25 1990
ANNUAL SEVEN-DAY MINIMUM	.13 Sep 17	.27 Nov 11	.13 Sep 17 1991
INSTANTANEOUS PEAK FLOW		2.6 Jun 16	2.6 Jun 16 1992
INSTANTANEOUS PEAK STAGE		2.05 Jun 16	2.05 Jun 16 1992
ANNUAL RUNOFF (AC-FT)	332	332	330
10 PERCENT EXCEEDS	.69	.62	.90
50 PERCENT EXCEEDS	.46	.46	.46
90 PERCENT EXCEEDS	.27	.29	.31

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 mi².

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,180 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversion for municipal use above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.5 ft³/s, May 22, gage height, 4.33 ft; minimum daily, 0.05 ft³/s, October 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.37	.55	.78	.55	.50	.31	.29	.24	.22	.20	.12
2	.12	.52	.51	.67	.43	.50	.30	.36	.20	.22	.22	.12
3	.12	.54	.47	.56	.48	.50	.30	.28	.20	.16	.18	.14
4	.14	.54	.40	.62	.50	.49	.28	.27	.19	.26	.12	.17
5	.22	.52	.40	.65	.50	.44	.28	.26	.20	.13	.07	.23
6	.23	.44	.44	.65	.50	.47	.29	.26	.27	.17	.16	.23
7	.18	.39	.54	.65	.56	.43	.29	.22	.20	.16	.19	.16
8	.10	.41	.50	.59	.63	.42	.28	.22	.24	.14	.25	.13
9	.05	.53	.44	.59	.54	.42	.30	.30	.19	.12	.25	.10
10	.11	.39	.46	.64	.54	.39	.30	.26	.19	.16	.19	.10
11	.20	.39	.46	.57	.54	.37	.30	.24	.21	.26	.13	.12
12	.27	.41	.50	.47	.63	.37	.30	.21	.18	.28	.15	.19
13	.24	.37	.53	.48	.56	.37	.30	.21	.31	.24	.14	.14
14	.24	.30	.61	.51	.54	.37	.30	.19	.30	.16	.19	.13
15	.21	.45	.59	.50	.54	.31	.30	.25	.30	.17	.27	.12
16	.19	.65	.54	.50	.54	.32	.31	.29	.33	.16	.23	.12
17	.19	.74	.54	.56	.54	.35	.35	.27	.33	.16	.15	.13
18	.18	.68	.65	.64	.54	.33	.50	.33	.08	.23	.09	.15
19	.28	.56	.65	.50	.60	.32	.36	.34	.22	.23	.11	.20
20	.31	.54	.61	.50	.80	.31	.32	.32	.29	.18	.12	.19
21	.29	.53	.73	.54	.65	.33	.32	.25	.22	.12	.16	.14
22	.27	.48	.71	.53	.71	.34	.33	.29	.22	.13	.24	.09
23	.27	.58	.71	.51	.55	.31	.31	.16	.15	.13	.24	.10
24	.27	.33	.76	.55	.51	.30	.33	.11	.18	.13	.20	.13
25	.31	.48	.79	.69	.50	.29	.40	.12	.18	.24	.15	.20
26	.95	.63	.78	.61	.50	.28	.31	.11	.19	.20	.15	.24
27	.67	.75	.80	.56	.52	.30	.31	.13	.24	.16	.15	.20
28	.61	.78	.85	.53	.50	.30	.30	.17	.19	.12	.16	.18
29	.51	.78	.78	.50	.54	.30	.28	.23	.24	.10	.22	.17
30	.42	.68	.82	.50	---	.31	.27	.29	.19	.11	.22	.17
31	.38	---	.80	.53	---	.33	---	.22	---	.10	.18	---
TOTAL	8.66	15.76	18.92	17.68	16.04	11.37	9.43	7.45	6.67	5.35	5.48	4.61
MEAN	.28	.53	.61	.57	.55	.37	.31	.24	.22	.17	.18	.15
MAX	.95	.78	.85	.78	.80	.50	.50	.36	.33	.28	.27	.24
MIN	.05	.30	.40	.47	.43	.28	.27	.11	.08	.10	.07	.09
AC-FT	17	31	38	35	32	23	19	15	13	11	11	9.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	1984	1984	1984	1984	1986	1983	1982	1983	1983	1983	1983	1983
MEAN	1.58	1.54	1.41	1.37	1.96	1.75	1.63	1.36	1.89	1.80	1.62	1.41
MAX	5.69	5.41	5.13	4.35	6.86	4.41	4.33	4.53	8.29	8.01	7.04	4.97
(WY)	1984	1984	1984	1984	1986	1983	1982	1983	1983	1983	1983	1983
MIN	.28	.39	.33	.33	.43	.37	.31	.24	.22	.17	.18	.15
(WY)	1992	1991	1991	1991	1991	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1976 - 1992

ANNUAL TOTAL	141.78	127.42	
ANNUAL MEAN	.39	.35	1.63
HIGHEST ANNUAL MEAN			4.58 1983
LOWEST ANNUAL MEAN			.35 1992
HIGHEST DAILY MEAN	1.3 Mar 4	.95 Oct 26	42 Feb 17 1986
LOWEST DAILY MEAN	.05 Oct 9	.05 Oct 9	.05 Oct 9 1991
ANNUAL SEVEN-DAY MINIMUM	.14 Aug 24	.13 Sep 9	.13 Sep 9 1992
INSTANTANEOUS PEAK FLOW		8.5 May 22	150 Feb 19 1986
INSTANTANEOUS PEAK STAGE		4.33 May 22	5.44 Feb 19 1986
ANNUAL RUNOFF (AC-FT)	281	253	1180
10 PERCENT EXCEEDS	.65	.62	3.6
50 PERCENT EXCEEDS	.37	.30	1.0
90 PERCENT EXCEEDS	.18	.13	.33

CARSON RIVER BASIN

155

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'16", 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 mi².

PERIOD OF RECORD.--July 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,080 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.3 ft³/s, October 26, gage height, 1.63 ft; minimum daily, 0.47 ft³/s, August 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.79	1.2	e1.5	1.7	1.8	1.8	1.8	1.6	.83	.94	.49	.65
2	.75	1.2	1.5	1.6	1.9	1.7	1.8	1.7	.79	.87	.48	.69
3	.72	1.2	1.4	1.7	e1.8	1.7	1.9	1.6	.76	.79	.48	.74
4	.77	1.3	1.4	1.7	1.8	1.7	1.9	1.5	.71	.76	.50	.74
5	.76	1.3	1.4	1.8	1.9	1.7	1.8	1.4	.67	.75	.51	.63
6	.74	1.3	1.4	1.7	2.0	1.7	1.7	1.5	.68	.75	.50	.63
7	.72	1.4	1.5	1.7	2.1	1.6	1.7	1.6	.76	.74	.52	.64
8	.77	1.3	1.4	e1.7	2.1	1.6	1.8	1.6	.80	.72	.52	.60
9	.79	1.6	e1.4	e1.7	2.1	1.6	1.7	1.6	.72	.71	.53	.60
10	.79	1.5	e1.4	e1.7	2.1	1.5	1.7	1.5	.65	.67	.49	.59
11	.80	1.4	1.4	e1.7	2.1	1.5	1.7	1.5	.64	.69	.48	.57
12	.85	1.3	e1.4	e1.7	2.1	1.5	1.8	1.5	.69	.79	.50	.60
13	.82	1.3	1.4	e1.7	2.1	1.5	1.9	1.5	.78	.71	.57	.62
14	.82	1.3	1.4	1.7	2.1	1.6	1.8	1.5	1.1	.69	.60	.64
15	.83	1.3	1.4	1.7	2.1	1.5	1.7	1.4	1.2	.70	.62	.66
16	.80	1.3	1.4	1.8	2.1	1.5	1.8	1.5	.96	.64	.57	.65
17	.80	2.0	1.5	1.8	2.1	1.5	2.0	1.4	.85	.61	.53	.64
18	.85	1.7	1.6	1.8	2.1	1.4	1.9	1.4	.92	.58	.49	.75
19	.88	1.5	1.5	e1.8	2.1	1.4	1.7	1.4	.99	.55	.47	.68
20	.92	1.9	e1.5	e1.8	2.9	1.4	1.6	1.6	.94	.55	.49	.70
21	.92	1.9	e1.6	1.8	2.6	1.4	1.7	1.4	.88	.56	.52	.67
22	.92	1.7	1.6	1.8	2.8	1.6	1.6	1.3	.75	.57	.56	.64
23	.99	1.6	1.6	1.8	2.1	1.6	1.7	1.4	.76	.58	.59	.64
24	1.0	1.6	1.6	1.9	1.9	1.5	1.7	1.4	.87	.57	.59	.67
25	1.1	1.5	1.6	2.0	1.8	1.5	1.7	1.3	.87	.56	.55	.75
26	3.2	1.5	1.6	1.9	1.8	1.5	1.6	1.4	.82	.53	.51	.80
27	1.5	1.7	1.7	1.8	1.7	1.5	1.5	1.1	.77	.53	.50	.76
28	1.3	1.5	1.7	1.8	1.7	1.7	1.4	1.0	.88	.53	.51	.73
29	1.3	1.5	1.7	1.7	1.7	1.7	1.7	.97	.90	.51	.57	.70
30	1.3	e1.5	1.7	1.7	---	1.9	e1.8	.91	.98	.50	.72	.71
31	1.2	---	1.7	1.8	---	2.1	---	.88	---	.48	.69	---
TOTAL	30.70	44.3	46.9	54.5	59.5	49.4	52.1	43.36	24.92	20.13	16.65	20.09
MEAN	.99	1.48	1.51	1.76	2.05	1.59	1.74	1.40	.83	.65	.54	.67
MAX	3.2	2.0	1.7	2.0	2.9	2.1	2.0	1.7	1.2	.94	.72	.80
MIN	.72	1.2	1.4	1.6	1.7	1.4	1.4	.88	.64	.48	.47	.57
AC-FT	61	88	93	108	118	98	103	86	49	40	33	40

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1992, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.49	2.76	2.73	2.78	3.20	3.41	3.86	5.05	4.92	3.11	2.38	2.17					
MAX	6.03	7.57	6.81	5.76	8.82	7.48	6.38	11.8	19.6	12.6	9.25	6.49					
(WY)	1984	1984	1984	1984	1986	1986	1982	1984	1983	1983	1983	1983					
MIN	.99	1.37	1.51	1.66	1.65	1.59	1.74	1.40	.83	.65	.54	.67					
(WY)	1992	1991	1992	1991	1991	1992	1992	1992	1992	1992	1992	1992					

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1976 - 1992

ANNUAL TOTAL	583.57	462.55	
ANNUAL MEAN	1.60	1.26	3.25
HIGHEST ANNUAL MEAN			7.77
LOWEST ANNUAL MEAN			1.26
HIGHEST DAILY MEAN	8.0	Mar 4	3.2
LOWEST DAILY MEAN	.72	Oct 3	.47
ANNUAL SEVEN-DAY MINIMUM	.75	Oct 2	.49
INSTANTANEOUS PEAK FLOW			7.3
INSTANTANEOUS PEAK STAGE			1.63
ANNUAL RUNOFF (AC-FT)	1160	917	2360
10 PERCENT EXCEEDS	2.4	1.8	6.2
50 PERCENT EXCEEDS	1.6	1.4	2.3
90 PERCENT EXCEEDS	.86	.57	1.2

CARSON RIVER BASIN

10311260 VICEE CANYON CREEK NEAR SAGEBRUSH RANCH NEAR CARSON CITY, NV

LOCATION.--Lat 39°11'02", long 119°40'53", in NW 1/4 sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050202, on left bank, 0.7 mi southwest of intersection of West Ormsby Boulevard and Combs Canyon Road.

DRAINAGE AREA.--1.83 mi².

PERIOD OF RECORD.--December 1983 to September 1985, September 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,000 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.75 ft³/s, April 27, gage height, 4.19 ft; no flow most days.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	e.20	.00	.25	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	e.10	.00	.13	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00
5	.00	.00	e.01	.00	.00	.00	.00	.21	.00	.00	.00	.00
6	.00	.00	e.02	.00	.00	.00	.00	.04	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	e.60	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	e.60	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
26	.01	.00	.00	.00	.00	.00	e.58	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	e.57	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	e.04	.00	.42	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	e.08	.00	.48	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.46	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.01	0.00	0.03	0.00	0.12	0.30	12.41	1.04	0.00	0.00	0.00	0.00
MEAN	.000	.000	.001	.000	.004	.010	.41	.034	.000	.000	.000	.000
MAX	.01	.00	.02	.00	.08	.20	.60	.25	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.02	.00	.06	.00	.2	.6	25	2.1	.00	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	.055	.051	.19	.16	.14	.17	.26	.25	.16	.031	.029	.020
MAX	.22	.20	.70	.61	.43	.47	.60	.79	.47	.13	.14	.10
(WY)	1985	1985	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
MIN	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000	.000	.000
(WY)	1990	1991	1991	1990	1991	1992	1991	1990	1990	1990	1990	1989

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1984 - 1992

ANNUAL TOTAL	16.63	13.91	
ANNUAL MEAN	.046	.038	.064
HIGHEST ANNUAL MEAN			.17 1985
LOWEST ANNUAL MEAN			.003 1990
HIGHEST DAILY MEAN	1.2 Jun 3	.60 Apr 9	1.7 Dec 27 1983
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Aug 3 1985
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Aug 3 1985
INSTANTANEOUS PEAK FLOW		.75 Apr 27	1.7 Dec 27 1983
INSTANTANEOUS PEAK STAGE		4.19 Apr 27	5.30 Mar 5 1991
ANNUAL RUNOFF (AC-FT)	33	28	47
10 PERCENT EXCEEDS	.01	.00	.49
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

CARSON RIVER BASIN

157

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 mi².

PERIOD OF RECORD.--January 1985 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,620 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No flow many days July to September 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90 ft³/s, March 30, gage height, 5.91 ft; minimum daily, 0.03 ft³/s, June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.19	.40	.47	e.62	.30	.73	.17	.08	.11	.11	.19
2	.08	.19	.46	e.62	e.53	.30	.54	.17	.09	.11	.11	.18
3	.11	.19	.56	e.62	.37	.31	.43	.19	.07	.11	.11	.17
4	.09	.18	.52	e.62	.43	.31	.38	.23	.04	.11	.12	.17
5	.09	.18	.58	e.62	.37	.39	.36	.27	.03	.11	.13	.17
6	.09	.18	.69	e.63	e.58	2.2	.34	.26	.05	.11	.12	.18
7	.09	.18	2.8	e.64	e.60	1.1	.33	.25	.06	.09	.13	.20
8	.09	.18	2.2	.45	e.63	.59	.32	.23	.07	.04	.13	.17
9	.09	.20	1.1	.54	e.68	.48	.31	.21	.07	.04	.15	.17
10	.09	.21	.76	.55	.41	.41	.30	.21	.07	.05	.16	.16
11	.09	.21	.69	e.68	3.5	.36	.31	.25	.07	.07	.16	.21
12	.09	.21	.66	e.65	1.0	.33	.31	.29	.07	.09	.17	.28
13	.09	.20	.52	e.63	.87	.35	.39	.23	.08	.10	.19	.30
14	.09	.23	.50	e.62	.43	.40	.38	.22	.15	.11	.18	.27
15	.09	.24	.55	e.61	4.1	.36	.39	.22	1.5	.10	.16	.28
16	.09	.23	.68	e.60	1.5	.35	.35	.22	1.6	.10	.18	.27
17	.09	12	e.61	e.60	.74	.36	.34	.22	.37	.10	.14	.22
18	.09	8.5	e.62	e.68	.41	.35	.32	.19	.64	.11	.18	.21
19	.10	1.5	e.64	e.58	.38	.30	.31	.11	1.1	.11	.18	.18
20	.10	1.0	e.68	e.51	1.8	.27	.33	.09	.22	.11	.19	.19
21	.13	.83	e.79	e.48	.87	.23	.33	.20	.12	.11	.18	.08
22	.14	.73	.62	e.46	3.0	2.0	.31	.12	.11	.11	.16	.06
23	.13	.69	.57	e.47	.48	.77	.29	.11	.11	.15	.17	.05
24	.14	.69	.52	e.48	.43	.33	.29	.10	.12	.13	.17	.04
25	.15	.67	e.54	e.50	.32	.26	.30	.10	.14	.12	.17	.05
26	9.0	.61	e.54	e.52	.31	.29	.28	.09	.12	.11	.14	.12
27	3.6	3.1	e.54	e.54	.31	.28	.27	.08	.11	.11	.11	.11
28	.32	1.9	e.54	e.58	.31	.23	.25	.07	.09	.13	.12	.12
29	.23	.99	e.55	e.62	.30	.22	.25	.08	.10	.10	.12	.11
30	.19	.56	e.58	.43	---	13	.14	.08	.10	.11	.22	.11
31	.19	---	.55	e.64	---	6.4	---	.08	---	.11	.23	---
TOTAL	16.02	36.97	22.56	17.64	26.28	33.83	10.18	5.34	7.55	3.17	4.79	5.02
MEAN	.52	1.23	.73	.57	.91	1.09	.34	.17	.25	.10	.15	.17
MAX	9.0	12	2.8	.68	4.1	13	.73	.29	1.6	.15	.23	.30
MIN	.06	.18	.40	.43	.30	.22	.14	.07	.03	.04	.11	.04
AC-FT	32	73	45	35	52	67	20	11	15	6.3	9.5	10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1992, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992
MEAN	2.86	3.20	3.10	3.94	15.3	5.74	2.78
MAX	11.8	7.98	9.46	10.7	91.9	24.5	11.5
(WY)	1987	1987	1986	1986	1986	1986	1986
MIN	.095	.24	.26	.32	.42	.35	.23
(WY)	1991	1991	1989	1991	1991	1988	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1986 - 1992

ANNUAL TOTAL	205.18	189.35	
ANNUAL MEAN	.56	.52	
HIGHEST ANNUAL MEAN			3.64
LOWEST ANNUAL MEAN			15.7
HIGHEST DAILY MEAN	18 Mar 4	13 Mar 30	.42 1991
LOWEST DAILY MEAN	.03 Aug 4	.03 Jun 5	701 Feb 17 1986
ANNUAL SEVEN-DAY MINIMUM	.04 Sep 17	.06 Jun 3	.00 Jul 1 1988
INSTANTANEOUS PEAK FLOW		90 Mar 30	.00 Jul 1 1988
INSTANTANEOUS PEAK STAGE		5.91 Mar 30	1110 Feb 19 1986
ANNUAL RUNOFF (AC-FT)	407	376	8.85 Feb 19 1986
10 PERCENT EXCEEDS	.77	.69	2640
50 PERCENT EXCEEDS	.31	.23	9.0
90 PERCENT EXCEEDS	.06	.09	.43
			.06

CARSON RIVER BASIN

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 16050201, on right bank, just downstream from Deer Run Road, 500 ft south of Brunswick Road, and 4 mi east of Carson City.

DRAINAGE AREA.--958 mi².

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 sea level, from topographic map.

REMARKS.--Records poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1955 is believed to have been approximately 30,000 ft³/s, based on slope-area measurement made at gaging station 5 mi upstream. Flood of February 1986, discharge approximately 13,000 ft³/s, gage height 17.38 ft, from rating extension above 17.01 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 27	1300	*462	*5.46				
Minimum daily, 0.50 ft ³ /s, Aug. 6.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	81	115	106	117	181	222	e240	44	11	2.9	3.1
2	5.5	89	111	107	113	182	216	e210	43	9.7	2.9	3.0
3	7.0	86	131	113	110	175	198	e190	40	10	2.9	2.7
4	6.3	73	138	126	97	169	205	e180	42	9.5	2.8	2.1
5	4.9	56	132	137	85	181	263	e170	34	7.6	1.4	2.3
6	5.6	59	135	132	89	e180	233	e180	27	11	.50	2.4
7	7.2	72	142	126	100	e170	182	e200	25	12	2.1	2.2
8	6.2	85	158	121	103	e170	159	e230	22	12	2.3	3.9
9	7.8	91	152	110	99	e150	178	e250	17	8.1	1.4	4.4
10	8.0	122	141	88	100	e130	185	e210	18	3.1	e1.3	4.4
11	8.1	147	137	107	104	e120	168	e210	16	2.2	e2.3	e4.5
12	7.8	139	141	112	114	e120	178	e210	13	2.3	e2.6	e4.4
13	12	125	130	108	116	e128	160	e210	9.8	.77	e1.8	e4.3
14	9.1	112	135	107	115	e121	233	e190	9.8	1.1	e2.4	e4.0
15	9.6	114	138	109	109	e130	263	e180	13	1.6	e4.4	e3.8
16	9.5	119	142	108	108	e140	213	e178	19	1.3	e5.4	e3.5
17	10	120	138	117	104	e130	158	e170	30	1.5	e6.1	e3.2
18	19	197	137	123	98	e110	e270	e150	38	1.4	e3.2	e3.0
19	32	192	141	115	93	e130	e310	e130	40	2.4	e2.8	e2.8
20	46	147	135	107	97	133	e265	e110	34	1.9	e2.0	e2.5
21	63	144	106	96	126	133	e250	e96	27	1.1	e3.0	e2.6
22	72	179	110	110	155	131	e230	e90	21	3.3	e2.5	e2.7
23	75	168	136	109	204	146	e180	e86	26	2.6	e3.3	e2.5
24	85	146	140	103	177	122	e160	e61	25	2.3	e2.8	e2.3
25	92	155	130	120	153	133	e190	e50	21	2.2	e2.6	e2.2
26	125	154	134	129	146	128	e220	e48	14	2.9	e1.7	e2.3
27	306	151	128	124	148	125	e250	e45	11	2.1	e1.0	e2.0
28	265	154	124	115	151	135	e260	e43	8.9	1.9	2.2	e1.7
29	172	142	129	119	166	132	e290	e59	6.9	2.3	1.4	e1.5
30	136	121	127	117	---	154	e320	50	8.9	2.2	3.9	e1.3
31	100	---	123	109	---	228	---	39	---	2.0	3.6	---
TOTAL	1718.2	3740	4116	3530	3497	4517	6609	4465	704.3	135.37	81.50	87.6
MEAN	55.4	125	133	114	121	146	220	144	23.5	4.37	2.63	2.92
MAX	306	197	158	137	204	228	320	250	44	12	6.1	4.5
MIN	4.9	56	106	88	85	110	158	39	6.9	.77	.50	1.3
AC-FT	3410	7420	8160	7000	6940	8960	13110	8860	1400	269	162	174

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1992, BY WATER YEAR (WY)

	180	365	392	428	472	444	685	1238	1125	399	99.4	74.4
MEAN	180	365	392	428	472	444	685	1238	1125	399	99.4	74.4
MAX	534	1086	987	1040	1134	1061	1407	2273	4319	1694	669	259
(WY)	1983	1984	1984	1980	1982	1983	1982	1983	1983	1983	1983	1983
MIN	18.5	44.6	57.7	83.4	64.8	146	200	144	23.5	4.37	2.63	2.63
(WY)	1991	1991	1991	1991	1991	1992	1991	1992	1992	1992	1992	1981

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1979 - 1992

ANNUAL TOTAL	52658.9	33200.97	
ANNUAL MEAN	144	90.7	501
HIGHEST ANNUAL MEAN			1178
LOWEST ANNUAL MEAN			90.7
HIGHEST DAILY MEAN	953	May 26	6770
LOWEST DAILY MEAN	3.1	Sep 6	.50
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 24	1.4
INSTANTANEOUS PEAK FLOW			462
INSTANTANEOUS PEAK STAGE			5.46
ANNUAL RUNOFF (AC-FT)	104400	65850	363200
10 PERCENT EXCEEDS	393	190	1260
50 PERCENT EXCEEDS	102	105	244
90 PERCENT EXCEEDS	7.0	2.3	9.7

159

LOCATION.--Lat 39°17'30", long 119°18'40", in SW 1/4 SE 1/4 sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, on right bank, 400 ft downstream from Buckland ditch, 2 mi west of Fort Churchill, and 4.5 mi upstream from Weeks Bridge on U.S. Highway 95 alternate.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 4,219.70 ft above sea level. Prior to April 25, 1924, nonrecording gage at site 7.8 mi upstream at different datum. April 25, 1924, to December 31, 1933, water-stage recorder at site 8 mi upstream at different datum. January 1, 1934, to September 30, 1957, water-stage recorder at present site at datum 1.36 ft higher (levels by Truckee-Carson Irrigation District). July 8, 1986, water-stage recorder at site 50 ft upstream at datum 5.0 ft higher.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

e Estimated

MEAN	60.5	176	272	314	383	382	550	1054	910	221	29.1	15.6
MAX	481	1653	2540	1487	2378	1415	1475	2923	4141	1497	613	238
(WY)	1983	1951	1951	1914	1986	1986	1916	1969	1983	1983	1983	1983
MIN	.000	.54	44.4	72.4	65.1	36.6	7.41	38.6	4.80	.000	.000	.000
(WY)	1925	1960	1960	1961	1991	1961	1977	1977	1992	1924	1924	1923

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV--Continued
(National Stream-Quality Accounting Network Station)

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1912 - 1992
ANNUAL TOTAL	41018.72	26282.65	
ANNUAL MEAN	112	71.8	363
HIGHEST ANNUAL MEAN			1111 1983
LOWEST ANNUAL MEAN			36.3 1977
HIGHEST DAILY MEAN	819 May 27	268 Apr 19	13400 Feb 19 1986
LOWEST DAILY MEAN	.00 Aug 2	.00 Aug 11	.00 Aug 27 1923
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 7	.00 Aug 18	.00 Aug 27 1923
INSTANTANEOUS PEAK FLOW		334 Apr 19	16600 Feb 19 1986
INSTANTANEOUS PEAK STAGE		4.59 Apr 19	8.35 Feb 19 1986
ANNUAL RUNOFF (AC-FT)	81360	52130	263200
10 PERCENT EXCEEDS	308	153	985
50 PERCENT EXCEEDS	75	94	170
90 PERCENT EXCEEDS	.07	.00	.02

CARSON RIVER BASIN

161

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV-Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to current year (published as Carson River near Silver Springs, station 10312020, October 1962 to September 1970).

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1962 to September 1969.

SPECIFIC CONDUCTANCE: October 1962 to June 1970 and February 1972 to September 1982.

WATER TEMPERATURE: October 1962 to June 1970 and February 1972 to September 1982.

REMARKS.--Water-quality data are collected from river at gage, or from Buckland Ditch, which leaves river 400 ft upstream from gage, depending on discharge. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Discharge data do not include ditch flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 840 microsiemens, September 13, 1973; minimum daily, 81 microsiemens, July 3, 1967.

WATER TEMPERATURE: Maximum daily, 29.0°C, August 7, 1972; minimum daily, freezing point on many days during winter months of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOC- CI FECAL, KF AGAR (COLS. PER 100 ML)
NOV 14...	1211	90	362	8.2	6.5	8.0	2.9	9.0	90	80	68
FEB 19...	1222	113	447	8.2	15.5	6.5	2.0	11.0	106	K2	K20
MAY 28...	1255	28	556	8.1	31.0	22.0	2.6	8.9	0	63	180
AUG 11...	1039	0.49	609	8.2	33.0	24.0	2.8	6.6	92	K23	120

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 14...	120	35	7.4	31	1	4.4	126	104	72	18	0.40
FEB 19...	140	42	8.3	39	1	3.9	140	115	83	17	0.50
MAY 28...	170	51	11	46	2	4.5	170	140	110	18	0.60
AUG 11...	180	49	14	60	2	5.8	174	143	140	20	0.50

DATE	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
NOV 14...	19	240	250	0.33	<0.010	<0.010	<0.050	<0.050	<0.010	<0.010
FEB 19...	22	299	285	0.41	<0.010	<0.010	<0.050	<0.050	0.010	0.010
MAY 28...	24	362	350	0.49	<0.010	<0.010	<0.050	0.055	0.010	0.020
AUG 11...	28	396	404	0.54	<0.010	<0.010	<0.050	<0.050	0.020	<0.010

CARSON RIVER BASIN

10312000 CARSON RIVER NEAR FORT CHURCHILL, NV-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
NOV 14...	0.20	0.090	0.070	0.070	0.070	10	32	<3	36	28
FEB 19...	0.30	0.130	0.090	0.100	0.090	<10	37	<3	27	33
MAY 28...	<0.20	0.110	0.100	0.100	0.090	<10	46	<3	5	33
AUG 11...	0.30	0.050	0.030	0.030	0.030	10	47	<3	4	32

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 14...	27	<10	<1	<1	<1.0	370	<6	8	1.9	87
FEB 19...	52	<10	<1	<1	<1.0	430	<6	5	1.5	95
MAY 28...	58	<10	<1	<1	<1.0	540	<6	18	1.4	70
AUG 11...	52	10	1	<1	<1.0	610	<6	10	0.01	99

K: NON-IDEAL COLONY COUNT

CARSON RIVER BASIN

163

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 mi², (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.--Float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is above sea level. 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 and for power. 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.

COOPERATION.--Records of daily elevations furnished by Truckee-Carson Irrigation District.

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 observed, 89,650 acre-ft, April 7, elevation, 4,133.15 ft; minimum observed, 4,000 acre-ft, July 21, elevation, 4,089.43 ft.

Capacity table (elevation, in feet, contents, in acre-feet)

4,089	3,730	4,110	26,120	4,135	97,990
4,090	4,350	4,115	34,990	4,140	122,800
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

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	86160	---	53950	23950	---	---
2	---	---	---	---	---	---	86890	74120	53130	---	---	---
3	17990	---	18360	---	---	---	87660	73780	52230	22170	4340	---
4	17160	7190	18820	---	47430	---	---	73410	51360	21590	---	---
5	---	7380	19390	---	---	---	---	73040	50520	21090	---	---
6	---	7560	19930	---	48310	---	---	72390	49420	20630	4340	---
7	---	7740	---	34600	48790	---	89650	71650	47930	19970	4340	---
8	---	---	---	---	---	---	89390	---	47180	19020	---	---
9	---	---	---	35510	---	69480	89120	---	45960	17960	---	---
10	9530	---	21920	---	---	---	88820	---	44750	16800	---	---
11	8130	---	---	---	50570	---	---	---	43450	15440	---	---
12	---	8670	22850	---	51020	71970	---	67650	---	14150	---	---
13	---	---	23320	---	51470	72680	---	66770	---	13230	---	---
14	---	9270	---	---	---	---	86810	65930	---	12200	---	---
15	4650	9560	---	---	---	---	86210	64940	---	11120	---	---
16	4820	---	24640	38370	---	---	85570	63990	38690	10030	---	---
17	4870	---	25120	38820	---	75720	84920	63200	38350	8720	---	---
18	---	---	25500	---	53970	76310	84420	62480	38050	7160	4610	---
19	---	11330	---	---	---	76960	84170	61990	37600	5810	---	---
20	---	11890	---	---	---	77630	84170	61510	36760	4300	---	---
21	5060	12440	---	40560	---	---	84050	60960	35940	4000	---	---
22	5060	---	---	---	---	---	83680	60420	35010	---	---	---
23	5060	---	27560	41600	---	---	82610	59870	34130	---	---	---
24	5110	---	28030	---	58010	80550	---	59370	32720	---	---	---
25	---	---	---	---	59020	81290	81000	58900	31320	---	---	---
26	---	---	---	---	---	82030	79880	58400	29820	---	---	---
27	---	---	29280	---	60900	---	78850	58070	28540	---	---	---
28	---	---	---	44070	61570	---	77830	57420	27400	4220	4610	---
29	5730	---	---	---	---	---	---	---	26090	4270	---	4830
30	---	---	30820	45060	---	84710	75830	55590	24980	---	---	---
31	---	---	31280	---	---	85440	---	54790	---	---	---	---
OBS MAX	17990	12440	31280	45060	61570	85440	89650	74120	53950	23950	4610	4830
OBS MIN	4650	7190	18360	34600	47430	69480	75830	54790	24980	4000	4340	4830

CAL YR 1991 OBS MAX 108100 OBS MIN 4650
WTR YR 1992 OBS MAX 89650 OBS MIN 4000

CARSON RIVER BASIN

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 left bank 1.1 mi downstream from Lahontan Dam, and 15 mi west of Fallon.

DRAINAGE AREA.--1,801 mi², 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 sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for daily discharges below 10.0 cfs, which are poor. Flow regulated by Lahontan Reservoir (station 10312100), capacity 295,100 acre-ft, and other upstream regulations. One diversion, approximately 2,500 acre-ft per year, between gage and Lahontan Reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,400 ft³/s, April 4, gage height, 5.68 ft; minimum daily, 0.49 ft³/s, September 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	1.1	.81	1.2	1.3	1.1	1.6	681	481	515	.83	.62
2	139	1.1	.76	1.1	1.3	1.1	1.7	607	541	433	.81	.61
3	219	1.2	.73	1.1	1.1	1.1	1.8	545	608	332	.81	.62
4	416	1.1	.73	.92	.81	1.0	162	496	590	292	.81	.57
5	470	.89	.79	1.1	.81	1.1	348	495	559	289	.81	.66
6	569	.81	.81	1.0	1.5	1.1	347	537	533	298	.81	.70
7	739	.85	.86	.97	1.0	1.1	484	588	504	463	.81	.94
8	831	.81	.82	.93	1.0	1.2	593	599	477	585	.81	.97
9	809	.91	.76	.90	1.0	1.1	595	596	624	609	.76	.89
10	781	.76	.82	.86	.98	1.1	595	592	657	630	.69	.81
11	778	.73	.90	.85	.96	1.1	595	593	654	636	.66	.74
12	715	.73	.90	.89	1.0	1.1	595	640	622	587	1.3	.72
13	462	.81	.90	.73	1.0	1.1	595	686	604	552	.86	.66
14	255	.90	.90	.89	1.1	1.1	596	680	403	569	.74	.62
15	40	.90	.90	.91	1.3	1.3	569	675	205	592	.73	.53
16	3.4	.90	.95	1.2	1.3	1.2	532	653	168	667	.72	.52
17	1.4	.92	1.0	1.0	1.3	1.1	506	559	169	754	.71	.52
18	1.3	.83	.99	1.0	1.3	1.0	511	498	169	777	.75	.53
19	1.3	.73	1.0	.95	1.2	1.2	489	497	269	751	.73	.53
20	1.3	.73	1.0	.96	1.1	1.2	467	482	373	562	.73	.53
21	1.3	.73	1.0	1.0	1.1	1.4	508	453	396	2.7	.68	.53
22	1.1	.73	1.0	1.0	1.1	1.6	644	452	513	1.4	.67	.53
23	1.1	.73	1.0	1.0	1.1	1.4	738	425	646	1.3	.74	.51
24	1.1	.73	1.0	1.1	1.1	1.5	743	399	779	1.1	.66	.49
25	1.1	.73	1.1	1.1	1.1	1.4	745	374	804	1.1	.66	.54
26	1.2	.73	1.1	1.0	1.1	1.6	746	344	703	1.1	.60	.59
27	1.2	.78	1.0	1.3	1.1	1.7	745	409	660	1.0	.59	.62
28	1.1	.81	1.0	1.4	1.1	1.7	741	570	595	1.0	.59	.63
29	1.2	.81	1.0	1.4	1.2	1.8	741	550	566	.94	.63	.66
30	1.1	.81	1.1	1.4	---	1.8	736	540	550	.81	.69	.66
31	1.1	---	1.1	1.3	---	1.8	---	492	---	.84	.64	---
TOTAL	7323.3	25.30	28.73	32.46	32.36	40.1	15671.1	16707	15422	10906.29	23.03	19.05
MEAN	236	.84	.93	1.05	1.12	1.29	522	539	514	352	.74	.63
MAX	831	1.2	1.1	1.4	1.5	1.8	746	686	804	777	1.3	.97
MIN	1.1	.73	.73	.73	.81	1.0	1.6	344	168	.81	.59	.49
AC-FT	14530	50	57	64	64	80	31080	33140	30590	21630	46	38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	MEAN	337	136	67.5	117	169	281	694	937	1027	968	851	610
MAX	802	639	861	1235	883	1392	1453	1560	2147	1745	1285	1111	
(WY)	1984	1983	1984	1984	1970	1986	1986	1969	1983	1983	1983	1983	
MIN	1.75	.84	.93	1.00	1.03	1.29	195	426	514	352	.74	.63	
(WY)	1978	1992	1992	1991	1991	1992	1991	1977	1992	1992	1992	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1967 - 1992

ANNUAL TOTAL	89050.20	66230.72	
ANNUAL MEAN	244	181	518
HIGHEST ANNUAL MEAN			1066
LOWEST ANNUAL MEAN			181
HIGHEST DAILY MEAN	983	831	3160
LOWEST DAILY MEAN	.73	.49	.49
ANNUAL SEVEN-DAY MINIMUM	.73	.52	.52
INSTANTANEOUS PEAK FLOW		1400	2970
INSTANTANEOUS PEAK STAGE		5.68	8.05
ANNUAL RUNOFF (AC-FT)	176600	131400	375100
10 PERCENT EXCEEDS	699	613	1060
50 PERCENT EXCEEDS	1.9	1.1	510
90 PERCENT EXCEEDS	.90	.71	2.2

CARSON RIVER BASIN

165

10312210 STILLWATER 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,915 ft above sea level, from topographic map. Prior to September 1981 gage was at the same site and datum on the right bank.

REMARKS.--No estimated daily discharges. Records good. Statistics computed below are for period of daily record October 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 60 ft³/s, October 23, 1990; no flow, September 1-30, 1992.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.8	4.1	5.7	4.7	1.8	2.5	3.8	8.2	23	4.4	.00
2	3.1	1.8	4.4	5.7	4.3	1.8	2.0	4.1	9.0	23	4.2	.00
3	2.6	1.9	4.7	5.5	4.2	1.8	1.7	4.6	5.9	22	3.6	.00
4	2.3	2.0	5.3	5.2	4.1	1.6	1.6	4.3	9.4	19	3.3	.00
5	2.4	2.1	5.1	6.2	3.8	1.5	1.3	4.3	8.8	16	3.3	.00
6	2.1	2.1	5.2	6.4	4.1	1.4	1.1	3.2	8.7	16	2.9	.00
7	2.0	1.7	6.9	6.0	4.2	1.5	1.0	2.2	12	17	2.6	.00
8	2.0	1.6	9.3	5.5	4.2	1.7	.99	2.5	12	18	2.4	.00
9	2.9	1.5	7.9	5.1	3.6	1.5	1.1	2.3	9.9	17	2.2	.00
10	4.2	2.4	7.8	5.2	3.7	1.7	1.0	2.1	12	7.5	2.0	.00
11	5.4	2.9	7.8	5.2	3.7	1.6	1.0	2.1	11	5.0	1.8	.00
12	6.6	2.8	7.3	5.0	3.7	1.4	.94	2.3	14	7.7	1.5	.00
13	8.4	3.4	7.5	5.4	3.9	1.5	1.0	3.0	15	9.9	1.3	.00
14	10	3.1	7.3	5.7	3.8	1.4	1.4	3.7	10	8.5	1.5	.00
15	7.3	6.9	7.8	5.4	3.6	1.2	1.7	3.8	16	9.1	1.5	.00
16	4.2	7.2	6.9	5.6	4.2	1.1	1.9	7.0	17	6.2	1.5	.00
17	2.7	7.4	7.0	6.2	4.0	1.4	3.0	5.8	15	5.4	1.7	.00
18	2.8	7.2	7.8	5.3	3.6	1.2	2.2	4.8	12	7.1	1.8	.00
19	2.6	6.1	8.1	4.9	3.6	1.2	2.1	4.1	10	7.3	1.7	.00
20	2.7	5.7	5.7	4.6	3.6	1.2	2.8	3.3	9.1	8.7	1.5	.00
21	3.0	5.9	5.8	4.9	2.7	1.1	4.2	3.0	8.9	17	1.3	.00
22	3.0	4.9	6.2	5.1	2.4	1.3	2.7	5.6	9.8	14	1.1	.00
23	2.7	5.1	6.2	5.0	2.2	1.6	1.9	13	13	12	1.1	.00
24	2.2	7.6	5.8	5.8	2.0	1.5	1.6	22	20	10	.94	.00
25	2.1	6.4	5.8	5.9	1.9	1.1	1.4	16	23	8.0	.74	.00
26	2.1	6.7	6.2	5.4	1.8	1.1	1.4	7.4	27	6.9	.71	.00
27	1.7	6.3	6.9	4.9	1.5	1.2	1.4	6.7	32	6.6	.66	.00
28	1.4	5.4	7.0	5.1	1.6	1.2	1.4	5.7	32	6.3	.49	.00
29	1.5	4.9	6.3	5.1	2.0	1.3	1.5	6.9	28	5.8	.77	.00
30	1.9	4.4	5.7	4.9	---	1.7	1.9	10	25	5.0	.34	.00
31	2.3	---	5.2	4.8	---	2.2	---	7.5	---	4.4	e.30	---
TOTAL	103.4	129.2	201.0	166.7	96.7	44.8	51.73	177.1	443.7	349.4	55.15	0.00
MEAN	3.34	4.31	6.48	5.38	3.33	1.45	1.72	5.71	14.8	11.3	1.78	.000
MAX	10	7.6	9.3	6.4	4.7	2.2	4.2	22	32	23	4.4	.00
MIN	1.4	1.5	4.1	4.6	1.5	1.1	.94	2.1	5.9	4.4	.30	.00
AC-FT	205	256	399	331	192	89	103	351	880	693	109	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992	1991	1992
MEAN	13.0	9.30	7.09	4.60	3.97	2.79	3.51	6.43	9.96	9.11	4.41	3.17
MAX	22.6	14.3	7.69	5.38	4.62	4.14	5.29	7.15	14.8	11.3	7.05	6.34
(WY)	1991	1991	1991	1992	1991	1991	1991	1991	1992	1992	1991	1991
MIN	3.34	4.31	6.48	3.81	3.33	1.45	1.72	5.71	5.12	6.94	1.78	.000
(WY)	1992	1992	1992	1991	1992	1992	1992	1992	1991	1991	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	1967.5	1818.88	
ANNUAL MEAN	5.39	4.97	
HIGHEST ANNUAL MEAN			6.46
LOWEST ANNUAL MEAN			7.95
HIGHEST DAILY MEAN	15	May 14	32
LOWEST DAILY MEAN	1.4	Oct 28	.00
ANNUAL SEVEN-DAY MINIMUM	1.8	Oct 27	.00
ANNUAL RUNOFF (AC-FT)	3900	3610	4680
10 PERCENT EXCEEDS	8.3	10	12
50 PERCENT EXCEEDS	5.1	3.7	5.1
90 PERCENT EXCEEDS	2.9	.76	1.4

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--September 1990 to current year.

WATER TEMPERATURE.--October 1990 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1990, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in records due to instrument malfunction and periods of no flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 5,900 microsiemens, April 20, 1992; minimum, 735 microsiemens, May 12, 1991.

WATER TEMPERATURE.--Maximum, 31.5°C, August 12, 1992; minimum, freezing point, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 5,900 microsiemens, April 20; minimum, 742 microsiemens, June 30.

WATER TEMPERATURE.--Maximum, 31.5°C, August 12; minimum, freezing point, many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

CARSON RIVER BASIN

167

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	5080	4470	4820	4490	2760	3390
2	---	---	---	---	---	---	5000	4520	4810	4570	3640	4290
3	---	---	---	---	---	---	5290	4760	5040	3610	2940	3400
4	---	---	---	3380	3160	3260	5560	5210	5360	2930	2720	2860
5	---	---	---	3400	3340	3370	5670	5320	5560	2700	2440	2600
6	---	---	---	3450	3340	3400	5530	4850	5310	2430	2300	2360
7	---	---	---	3610	3430	3500	5090	4730	4960	2430	2310	2370
8	---	---	---	3870	3630	3750	5110	4820	4990	2420	2380	2400
9	---	---	---	3960	3880	3920	5100	4870	5020	2390	2330	2360
10	---	---	---	4030	3960	4000	5060	4910	5020	2450	2340	2400
11	---	---	---	4040	3970	4010	5080	4970	5030	2490	2410	2450
12	---	---	---	4110	3950	4020	5130	4990	5070	2510	2380	2440
13	---	---	---	4230	4120	4160	5190	5070	5130	2390	2350	2380
14	---	---	---	4270	4160	4220	5170	5080	5130	2350	2270	2320
15	---	---	---	4500	4290	4400	5170	5070	5120	2250	2100	2200
16	---	---	---	4570	4490	4530	5120	5050	5090	2090	1760	1960
17	---	---	---	4690	4500	4560	5170	3500	4570	1750	1610	1700
18	---	---	---	4740	4670	4710	3470	3100	3260	1590	1420	1490
19	---	---	---	4650	4450	4530	5390	3300	4260	1480	1410	1440
20	---	---	---	4480	4410	4440	5900	5310	5640	1550	1470	1500
21	---	---	---	4480	4380	4440	5200	4690	4950	1560	1530	1540
22	---	---	---	4490	4350	4440	4670	3840	4260	1660	1150	1460
23	---	---	---	4690	4440	4540	3830	3460	3680	1660	1100	1350
24	---	---	---	4750	4630	4700	3570	3300	3450	2070	1670	1810
25	---	---	---	4770	4700	4730	3350	3100	3240	1690	1530	1630
26	---	---	---	4790	4720	4760	3170	3030	3100	1640	1360	1540
27	---	---	---	4770	4670	4730	3020	2890	2980	1360	1320	1340
28	---	---	---	4820	4660	4730	2860	2300	2590	1380	1310	1360
29	---	---	---	5160	4820	4920	3470	2360	3000	1300	1230	1250
30	---	---	---	5190	4880	5100	3400	2800	3110	1320	1230	1280
31	---	---	---	5240	4900	5110	---	---	---	1280	1070	1190
MONTH	---	---	---	---	---	---	5900	2300	4450	4570	1070	2070
JUNE			JULY			AUGUST			SEPTEMBER			
1	1070	1000	1020	790	767	774	1220	1210	1220	---	---	---
2	1070	1010	1050	816	787	799	1220	1200	1210	---	---	---
3	1080	1020	1060	815	794	800	1260	1200	1230	---	---	---
4	1060	993	1020	923	818	871	1300	1250	1270	---	---	---
5	1100	1030	1080	929	898	916	1370	1280	1320	---	---	---
6	1020	960	991	926	893	908	1400	1320	1370	---	---	---
7	986	961	978	916	892	906	1420	1370	1400	---	---	---
8	971	895	921	889	869	881	1440	1400	1420	---	---	---
9	911	888	900	880	840	864	1430	1400	1410	---	---	---
10	977	873	916	876	840	857	1460	1400	1430	---	---	---
11	974	934	948	1020	871	911	1490	1430	1450	---	---	---
12	947	912	927	1280	1030	1170	1520	1460	1490	---	---	---
13	1200	927	1070	1460	1220	1340	1590	1500	1540	---	---	---
14	1180	1010	1070	1680	1380	1450	1650	1560	1600	---	---	---
15	1010	944	961	1730	1410	1680	1740	1640	1690	---	---	---
16	1260	948	1090	1380	1030	1190	1840	1710	1780	---	---	---
17	1170	1030	1100	1100	1040	1070	1870	1780	1830	---	---	---
18	1180	1090	1120	1180	1090	1130	1900	1800	1860	---	---	---
19	1090	1060	1080	1200	1150	1170	1960	1860	1900	---	---	---
20	1070	1040	1050	1240	1170	1190	2000	1920	1950	---	---	---
21	1070	1060	1060	1240	1040	1160	2030	1960	1990	---	---	---
22	1060	1020	1040	1040	932	988	2070	1990	2030	---	---	---
23	1030	996	1010	1000	930	973	2100	2040	2070	---	---	---
24	1030	967	1000	1020	961	989	2130	2070	2110	---	---	---
25	968	841	925	1070	994	1030	2170	2080	2130	---	---	---
26	895	830	857	1150	1070	1110	2190	2110	2160	---	---	---
27	844	796	822	1220	1150	1190	2200	2110	2160	---	---	---
28	839	772	808	1350	1220	1280	2250	2120	2190	---	---	---
29	805	762	780	1380	1350	1360	2200	2110	2170	---	---	---
30	780	742	757	1360	1290	1330	2240	2110	2170	---	---	---
31	---	---	---	1280	1220	1250	---	---	---	---	---	---
MONTH	1260	742	980	1730	767	1080	---	---	---	---	---	---

CARSON RIVER BASIN

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.0	11.0	16.5	10.0	.5	4.5	2.0	.0	.5	2.0	.5	1.0
2	21.5	11.5	17.0	11.0	1.0	5.5	4.0	.0	1.0	2.5	1.0	1.5
3	21.5	13.5	17.0	11.5	4.5	7.0	5.0	.0	1.5	2.0	.5	1.0
4	20.5	11.5	15.5	11.0	4.5	7.5	5.0	.5	2.0	3.0	.5	1.5
5	20.5	11.5	15.5	12.5	5.0	8.5	3.5	.0	1.5	2.0	1.0	1.5
6	21.0	11.5	16.0	13.0	6.0	9.5	3.5	.5	1.5	3.0	1.0	2.0
7	20.5	12.0	16.0	14.5	5.5	10.0	2.5	1.5	2.0	4.0	1.5	2.5
8	20.5	11.5	15.5	11.0	7.0	9.0	3.5	.0	1.5	4.5	1.0	2.5
9	19.0	11.0	15.0	13.5	9.0	10.5	2.5	.0	1.0	4.5	1.0	2.0
10	18.5	12.5	15.0	13.0	7.0	10.0	1.0	.0	.5	2.0	.5	1.0
11	17.5	12.5	15.0	11.5	6.5	8.5	2.5	.0	1.0	2.5	.5	1.5
12	19.0	15.0	16.5	11.0	5.0	7.5	2.5	.0	1.0	3.0	.5	1.5
13	18.0	14.0	16.0	9.5	5.0	7.0	2.5	.0	1.0	2.0	.5	1.0
14	17.5	13.0	15.5	8.0	4.0	5.5	2.5	.0	1.0	3.0	.5	1.5
15	16.5	12.0	14.5	6.5	3.5	5.0	2.5	.0	1.0	2.5	.5	1.0
16	18.5	12.0	15.0	6.0	3.0	4.5	2.5	.0	1.0	2.5	.5	1.0
17	17.5	11.0	14.0	6.5	4.5	5.5	1.5	.0	.5	2.0	.5	1.0
18	18.5	11.0	14.5	6.5	4.5	5.5	2.5	.0	1.0	3.5	.5	1.5
19	18.0	10.5	14.0	6.0	3.0	4.5	2.0	.5	1.0	3.5	.5	1.5
20	17.0	10.0	13.0	5.5	3.5	4.5	3.0	.0	1.0	3.0	.5	1.5
21	15.5	9.5	12.5	6.5	4.5	5.0	3.0	.0	1.0	3.0	.5	1.5
22	13.0	10.0	11.5	5.5	2.5	4.0	2.5	.0	1.0	3.0	.5	1.5
23	12.0	7.0	9.5	4.5	2.0	3.0	2.0	.0	1.0	3.0	.5	1.0
24	11.5	5.5	8.0	4.0	2.0	3.0	2.5	.0	1.0	---	---	---
25	10.5	7.0	8.5	4.5	2.0	3.0	2.5	.0	1.0	---	---	---
26	9.0	7.0	8.5	6.0	2.5	4.0	2.5	.0	1.0	---	---	---
27	9.5	4.0	6.0	4.0	2.0	3.5	2.5	.5	1.0	---	---	---
28	11.0	1.0	5.5	5.5	1.5	3.0	2.5	.5	1.5	---	---	---
29	8.0	2.5	5.5	1.5	.0	1.0	2.5	1.0	1.5	---	---	---
30	9.5	1.5	4.5	4.0	.0	1.5	5.0	1.0	2.0	---	---	---
31	9.0	1.0	4.5	---	---	---	4.5	.5	2.0	---	---	---
MONTH	21.5	1.0	12.6	14.5	.0	5.7	5.0	.0	1.2	---	---	---
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	20.0	11.5	15.0	21.0	15.0	17.5
2	---	---	---	---	---	---	21.5	11.0	15.5	21.5	14.0	18.0
3	---	---	---	---	---	---	22.0	11.0	16.0	22.5	14.0	18.0
4	---	---	---	15.0	7.0	10.5	17.0	11.0	14.0	23.5	14.5	19.0
5	---	---	---	14.0	7.0	10.0	20.5	8.5	13.5	24.0	15.5	19.5
6	---	---	---	14.0	8.0	10.5	19.0	8.0	13.0	23.5	17.0	19.5
7	---	---	---	13.5	6.5	9.5	21.0	7.0	13.5	27.0	16.5	21.0
8	---	---	---	14.0	6.5	10.0	21.0	9.0	14.5	26.0	18.5	21.5
9	---	---	---	15.0	6.0	10.5	19.5	10.0	14.5	24.0	16.5	19.5
10	---	---	---	15.5	6.0	10.5	19.5	10.5	14.5	25.5	14.5	19.5
11	---	---	---	16.0	6.0	10.5	22.0	11.0	15.5	25.5	16.0	20.0
12	---	---	---	16.5	6.0	11.0	21.5	11.5	15.5	24.5	15.5	20.0
13	---	---	---	15.5	7.0	11.0	21.5	12.5	16.5	25.0	16.5	20.5
14	---	---	---	13.5	7.0	9.5	23.0	12.5	17.0	24.0	18.0	20.5
15	---	---	---	16.0	6.0	10.5	20.0	13.0	16.5	24.5	17.0	20.5
16	---	---	---	15.5	7.5	11.0	21.0	12.0	16.5	24.0	18.0	20.5
17	---	---	---	15.0	8.0	10.5	18.0	13.0	15.5	25.5	18.0	21.5
18	---	---	---	16.0	6.0	10.5	20.0	10.5	15.0	26.0	18.5	22.0
19	---	---	---	15.0	5.0	10.0	20.0	9.5	14.5	24.5	18.0	20.5
20	---	---	---	14.5	6.5	10.0	20.0	10.5	15.0	24.0	16.0	19.5
21	---	---	---	18.0	6.5	12.0	20.5	14.0	16.5	24.0	15.0	19.5
22	---	---	---	12.0	8.0	10.0	20.5	12.5	16.0	23.0	16.0	19.0
23	---	---	---	15.0	7.0	10.5	21.5	10.5	15.0	23.0	16.0	19.5
24	---	---	---	17.0	7.0	11.5	22.0	10.0	16.0	24.5	18.5	21.5
25	---	---	---	16.0	9.0	12.0	25.5	11.5	18.0	26.5	20.0	23.0
26	---	---	---	18.5	9.0	13.5	23.5	13.5	18.5	26.5	21.5	23.5
27	---	---	---	19.5	9.0	14.0	25.5	13.5	19.5	26.0	20.0	23.0
28	---	---	---	20.0	8.5	14.0	26.0	15.0	20.0	26.0	20.0	22.5
29	---	---	---	19.0	10.5	14.5	25.5	16.0	20.0	26.0	20.0	23.0
30	---	---	---	18.0	12.0	14.5	23.0	15.5	18.5	25.5	20.5	23.0
31	---	---	---	19.5	11.5	15.0	---	---	---	27.0	20.0	23.5
MONTH	---	---	---	---	---	---	26.0	7.0	16.0	27.0	14.0	20.6

CARSON RIVER BASIN

169

10312210 STILLWATER DIVERSION CANAL NEAR FALLON, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	28.0	21.0	24.0	22.5	19.5	20.5	29.5	22.0	25.5	---	---	---
2	28.5	22.5	25.0	23.5	19.5	21.5	29.5	22.0	25.5	---	---	---
3	28.5	22.0	25.0	25.5	20.5	22.5	29.5	21.0	24.5	---	---	---
4	28.0	22.5	25.0	26.5	21.0	23.5	29.0	20.5	24.5	---	---	---
5	26.5	21.5	23.5	26.5	20.0	23.0	28.5	20.0	24.0	---	---	---
6	26.0	21.0	23.0	26.0	19.5	22.5	29.5	21.0	24.5	---	---	---
7	26.5	21.0	23.0	26.0	19.5	22.5	29.0	20.0	24.0	---	---	---
8	26.5	21.5	24.0	27.0	20.0	23.5	29.0	19.5	24.0	---	---	---
9	27.5	22.0	24.5	27.5	21.0	24.0	29.0	19.5	24.0	---	---	---
10	26.0	22.0	23.5	28.0	20.5	24.0	30.0	20.0	24.5	---	---	---
11	25.5	21.0	23.0	26.0	21.5	24.0	30.5	20.5	25.0	---	---	---
12	23.5	19.5	21.0	27.5	21.5	24.0	31.5	22.0	25.0	---	---	---
13	22.0	16.5	19.0	28.5	22.0	25.0	31.0	21.5	25.0	---	---	---
14	18.0	15.0	16.5	28.5	23.0	25.5	31.0	21.0	25.5	---	---	---
15	16.0	14.5	15.0	29.0	24.0	26.0	31.0	22.5	26.0	---	---	---
16	19.5	13.0	16.0	30.0	23.5	26.5	31.0	21.5	26.0	---	---	---
17	24.0	16.0	19.5	29.5	23.0	26.0	31.0	22.0	26.0	---	---	---
18	24.5	18.5	21.5	29.0	23.0	25.5	31.0	21.5	26.0	---	---	---
19	25.5	18.5	22.0	28.5	22.5	25.0	30.5	21.0	25.5	---	---	---
20	26.0	20.0	22.5	27.5	22.0	24.5	29.5	20.0	24.5	---	---	---
21	26.5	20.5	23.0	27.0	21.0	24.0	27.5	18.0	22.0	---	---	---
22	26.5	21.0	23.5	27.5	20.5	23.5	25.5	15.0	19.5	---	---	---
23	25.5	22.0	23.5	26.5	20.0	23.0	25.5	14.0	19.0	---	---	---
24	25.5	21.5	23.0	26.0	19.0	22.5	24.5	13.5	18.5	---	---	---
25	22.0	20.0	21.5	26.5	20.0	23.0	27.0	13.0	19.5	---	---	---
26	24.0	19.5	21.5	27.5	21.0	24.0	27.5	12.0	19.0	---	---	---
27	25.0	22.5	24.0	28.5	22.0	25.0	28.0	12.0	19.5	---	---	---
28	24.5	22.0	23.5	29.5	22.0	25.5	29.0	14.5	21.0	---	---	---
29	22.0	19.5	21.0	29.5	22.5	25.5	27.5	17.5	21.0	---	---	---
30	22.0	18.5	20.0	29.5	22.0	25.5	30.5	16.0	21.5	---	---	---
31	---	---	---	30.0	22.0	26.0	---	---	---	---	---	---
MONTH	28.5	13.0	22.0	30.0	19.0	24.1	---	---	---	---	---	---

CARSON RIVER BASIN

170

1031221775 DRY LAKE CANAL BELOW WEST CANAL DIVERSION NEAR STILLWATER, NV

LOCATION.--Lat 39°35'53", long 118°28'31", in SE 1/4 NW 1/4 sec.23, T.20 N., R.31 E., Churchill County,
Hydrologic Unit 16050203, on left bank, 75 ft below confluence with West Canal, and 5.5 mi northeast of
Stillwater.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1992 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 3,890 ft, from topographic map.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 29 ft³/s, July 30; no flow many days.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12	.00	.00	11	.00
2	---	---	---	---	---	---	---	19	.00	.00	1.9	.00
3	---	---	---	---	---	---	---	17	.00	.00	.83	.00
4	---	---	---	---	---	---	---	16	.00	.00	.66	.00
5	---	---	---	---	---	---	---	14	.00	.00	.46	.00
6	---	---	---	---	---	---	---	33	.00	.00	.35	.00
7	---	---	---	---	---	---	---	23	.00	.00	.27	.00
8	---	---	---	---	---	---	---	14	11	.00	.18	.00
9	---	---	---	---	---	---	---	.73	16	.00	.13	.00
10	---	---	---	---	---	---	---	.30	17	.00	.10	.00
11	---	---	---	---	---	---	---	.18	13	.00	.08	.00
12	---	---	---	---	---	---	---	.13	18	.00	.05	.00
13	---	---	---	---	---	---	---	.11	17	.00	.01	.00
14	---	---	---	---	---	---	.00	.10	22	.00	.00	.00
15	---	---	---	---	---	---	.00	.10	21	.00	.00	.00
16	---	---	---	---	---	---	.00	.10	18	.02	.00	.00
17	---	---	---	---	---	---	.00	.10	2.3	20	.00	.00
18	---	---	---	---	---	---	.00	.07	.54	23	.00	.00
19	---	---	---	---	---	---	.00	.05	.36	18	.00	.00
20	---	---	---	---	---	---	.00	.02	.28	1.1	.00	.00
21	---	---	---	---	---	---	.00	.00	.21	.28	.00	.00
22	---	---	---	---	---	---	.00	.00	.18	.16	.00	.00
23	---	---	---	---	---	---	.00	.00	.15	6.7	.00	.00
24	---	---	---	---	---	---	.00	.00	.12	11	.00	.00
25	---	---	---	---	---	---	.00	.00	.06	2.2	.00	.00
26	---	---	---	---	---	---	.00	.00	.04	5.8	.00	.00
27	---	---	---	---	---	---	.00	.00	.03	1.4	.00	.00
28	---	---	---	---	---	---	.00	.00	.01	.61	.00	.00
29	---	---	---	---	---	---	.00	.00	.00	20	.00	.00
30	---	---	---	---	---	---	.00	.00	.00	29	.00	.00
31	---	---	---	---	---	---	---	.00	---	24	.00	---
TOTAL	---	---	---	---	---	---	---	149.99	157.28	163.27	16.02	0.00
MEAN	---	---	---	---	---	---	---	4.84	5.24	5.27	.52	.0000
MAX	---	---	---	---	---	---	---	33	22	29	11	.00
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	298	312	324	32	.00

CARSON RIVER BASIN

171

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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,880 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 31 ft³/s, July 23, 1991; no flow at times most years.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.00	e.00	.00	.00	.00	32	.00	17	6.8	.00
2	.00	e.00	e.00	e.00	.00	.00	.00	29	.00	20	.33	.00
3	.00	e.00	e.00	e.00	.00	.00	.00	29	.00	20	.03	.00
4	1.2	e.00	e.00	e.00	.00	.00	.00	35	.00	18	.00	.00
5	19	e.00	e.00	e.00	.00	.00	.00	38	14	20	.00	.00
6	19	e.00	e.00	e.00	.00	.00	.00	32	15	18	.00	.00
7	22	e.00	e.00	e.00	.00	.00	.00	22	19	9.9	.00	.00
8	18	e.00	e.00	e.00	.00	.00	.00	7.7	17	.00	.00	.00
9	13	e.00	e.00	e.00	.00	.00	.00	.00	19	.00	.00	.00
10	19	e.00	e.00	.00	.00	.00	.00	.00	17	.00	.00	.00
11	18	e.00	e.00	.00	.00	.00	23	.00	15	.00	.00	.00
12	24	e.00	e.00	.00	.00	.00	5.6	.00	18	.00	.00	.00
13	12	e.00	e.00	.00	.00	.00	.00	.00	15	.00	.00	.00
14	1.8	e.00	e.00	.00	.00	.00	.00	.00	19	.00	.00	.00
15	16	e.00	e.00	.00	.00	.00	.00	.00	17	.00	.00	.00
16	.68	e.00	e.00	.00	.00	.00	.00	.00	13	8.5	.00	.00
17	2.7	e.00	e.00	.00	.00	.00	.00	.00	.00	20	.00	.00
18	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	20	.00	.00
19	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	10	.00	.00
20	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	e.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	e.00	e.00	.00	.00	.00	.00	9.8	.00	.00	.00	.00
23	.00	e.00	e.00	.00	.00	.00	.00	15	.12	13	.00	.00
24	.00	e.00	e.00	.00	.00	.00	.00	.00	2.9	5.6	.00	.00
25	.00	e.00	e.00	.00	.00	.00	.00	.00	13	4.7	.00	.00
26	.00	e.00	e.00	.00	.00	.00	.00	.00	16	3.2	.00	.00
27	.00	e.00	e.00	.00	.00	.00	.00	.00	11	.40	.00	.00
28	.00	e.00	e.00	.00	.00	.00	.00	.00	13	4.2	.00	.00
29	.00	e.00	e.00	.00	.00	.00	.00	.00	14	20	.00	.00
30	.00	e.00	e.00	.00	---	.00	2.1	.00	18	23	.00	.00
31	.00	---	e.00	.00	---	.00	---	.00	---	17	.00	---
TOTAL	186.38	0.00	0.00	0.00	0.00	0.00	30.70	249.50	286.02	272.50	7.16	0.00
MEAN	6.01	.000	.000	.000	.000	.000	1.02	8.05	9.53	8.79	.23	.000
MAX	24	.00	.00	.00	.00	.00	23	38	19	23	6.8	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	370	.00	.00	.00	.00	.00	61	495	567	541	14	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	6.01	.000	.000	.000	.000	.000	1.02	8.05	7.58	9.93	4.17	8.09
MAX	6.01	.000	.000	.000	.000	.000	1.02	8.05	9.53	11.1	8.10	16.2
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991
MIN	6.01	.000	.000	.000	.000	.000	1.02	8.05	5.62	8.79	.23	.000
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1991	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	1032.26		
ANNUAL MEAN	2.82	2.82	
HIGHEST ANNUAL MEAN		2.82	1992
LOWEST ANNUAL MEAN		2.82	1992
HIGHEST DAILY MEAN	38	38	May 5 1992
LOWEST DAILY MEAN	.00	.00	May 24 1991
ANNUAL SEVEN-DAY MINIMUM	.00	.00	May 24 1991
ANNUAL RUNOFF (AC-FT)	2050	2040	
10 PERCENT EXCEEDS	15	19	
50 PERCENT EXCEEDS	.00	.00	
90 PERCENT EXCEEDS	.00	.00	

CARSON RIVER BASIN

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--June 1991 to current year.

WATER TEMPERATURE.--June 1991 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1991, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to intermittent streamflow. Reported values are for days with continuous flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 709 microsiemens, August 1, 1992; minimum recorded, 418 microsiemens, September 10, 1991.

WATER TEMPERATURE.--Maximum recorded, 29.5°C, July 17, 18, 28, 29, 1992; minimum recorded, 13.5°C, October 12, 1992.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 709 microsiemens, August 1; minimum recorded, 489 microsiemens, June 10.

WATER TEMPERATURE.--Maximum recorded, 29.5°C, July 17, 18, 28, 29; minimum recorded, 13.5°C, October 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C.)			WATER TEMPERATURE (DEGREES CELSIUS)		
	MAX	MIN	MEAN	MAX	MIN	MEAN
OCT						
05...	598	590	594	18.5	14.0	16.5
06...	600	592	595	19.5	15.0	17.0
07...	607	597	601	19.0	16.0	17.0
08...	617	607	612	19.0	15.0	17.0
09...	616	597	611	18.5	14.0	16.5
10...	597	582	590	19.0	14.5	16.5
11...	582	573	577	17.5	14.5	16.5
12...	574	570	572	19.0	13.5	17.0
13...	570	565	569	19.0	15.0	17.0
15...	571	565	568	18.0	14.0	16.0
MAY						
01...	588	547	575	19.5	15.0	17.5
02...	562	548	557	20.5	14.5	17.5
03...	559	550	553	21.5	14.5	18.0
04...	579	538	554	22.0	16.5	19.5
05...	571	541	559	22.5	18.5	20.5
06...	536	514	524	22.5	19.5	21.0
07...	516	506	510	24.0	18.0	21.0
JUN						
06...	530	517	523	25.5	21.5	23.5
07...	520	516	518	26.0	20.5	23.0
08...	519	504	511	27.0	21.5	24.0
09...	507	494	503	27.5	22.0	24.5
10...	514	489	502	27.0	23.0	24.5
11...	538	512	524	25.5	22.0	23.5
12...	559	538	548	23.0	19.0	21.5
13...	584	559	568	21.5	17.0	19.0
14...	597	585	592	18.5	15.5	17.0
15...	600	595	597	16.0	14.5	15.5
25...	565	538	552	21.5	21.0	21.5
26...	582	566	573	25.0	20.0	22.5
27...	595	582	588	26.5	21.5	24.0
28...	599	592	595	26.0	23.0	24.0
29...	598	591	595	24.0	21.5	22.5
30...	597	578	588	23.5	20.0	21.5
JUL						
01...	586	578	581	23.0	19.0	21.0
02...	586	582	584	24.0	19.5	21.5
03...	587	582	585	25.0	21.0	23.0
04...	589	577	585	26.0	22.0	24.0
05...	577	559	568	26.0	22.0	24.0
06...	568	558	564	26.0	21.5	23.5
17...	582	571	576	29.5	25.0	27.0
18...	574	561	571	29.5	25.0	27.0
24...	570	562	565	26.0	20.0	23.0
25...	594	571	581	26.5	20.0	23.0
26...	600	593	595	26.5	21.0	23.5
27...	631	597	609	26.0	23.5	24.0
28...	650	622	637	29.5	23.5	25.0
29...	630	599	615	29.5	24.5	26.5
30...	640	625	629	29.0	24.5	26.5
31...	679	642	658	29.0	24.5	26.5
AUG						
01...	709	679	691	27.5	24.0	26.0

CARSON RIVER BASIN

173

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 sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir (station 10312100). No flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16 ft³/s, July 3, gage height, 2.25 ft; no flow September 29 and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.4	1.5	1.0	.98	.82	2.0	2.9	4.9	8.7	2.7	.12
2	2.2	1.5	1.3	1.0	.94	.78	2.0	3.2	5.3	9.3	2.5	.10
3	1.9	1.6	1.4	1.0	.92	.80	2.0	3.9	4.5	16	2.2	.10
4	2.0	1.5	1.3	1.0	1.0	.81	2.4	3.0	5.8	11	2.0	.15
5	3.2	1.5	1.3	1.1	.96	.86	3.4	2.4	4.2	6.6	1.7	.10
6	5.3	1.5	1.3	1.0	1.0	.86	3.2	3.3	4.3	6.5	1.5	.06
7	7.6	1.5	1.3	.97	1.0	.87	3.3	6.0	3.5	5.9	1.4	.04
8	5.0	1.4	1.3	1.1	.99	.92	5.9	7.2	3.2	4.4	1.3	.05
9	2.9	1.4	1.3	1.1	.96	.95	3.8	8.9	3.1	4.4	1.2	.04
10	2.9	1.4	1.3	1.1	.97	.91	2.4	8.0	3.0	5.1	1.2	.05
11	2.8	1.4	1.3	1.1	1.0	.91	2.0	3.0	3.0	5.2	1.1	.04
12	3.6	1.4	1.4	1.2	1.0	1.0	2.8	2.4	4.1	5.6	1.0	.03
13	3.2	1.4	1.4	1.2	1.0	1.0	2.6	2.5	4.8	7.0	.93	.04
14	3.4	1.3	1.4	1.1	.94	1.1	4.2	2.7	4.3	6.1	.86	.04
15	2.9	1.3	1.3	1.1	1.0	1.4	5.2	2.6	8.0	8.7	.76	.03
16	2.8	1.3	1.3	1.2	.99	.77	3.2	2.7	5.3	7.6	.79	.03
17	2.5	1.3	1.4	1.0	.96	.96	2.3	2.6	5.6	7.2	.77	.04
18	2.1	1.2	1.4	1.0	.89	1.1	3.4	3.0	4.5	7.6	.66	.04
19	2.0	1.3	1.3	1.1	.85	1.1	3.6	3.2	3.8	7.8	1.2	.05
20	2.0	1.3	1.6	1.1	.86	1.1	4.2	3.6	3.5	7.3	.63	.04
21	1.9	1.3	1.6	1.1	.83	1.2	3.0	2.6	3.7	6.9	.44	.03
22	1.8	1.3	1.6	1.1	.85	1.3	2.7	2.9	4.3	6.8	.31	.03
23	1.6	1.3	1.5	1.1	.86	1.3	2.5	3.2	5.7	7.1	.24	.02
24	1.6	1.3	1.5	1.0	.86	1.4	5.7	4.2	4.9	6.2	.23	.01
25	1.6	1.3	1.5	.99	.86	1.5	3.2	10	4.5	5.9	.24	.01
26	1.5	1.2	1.5	.99	.81	1.8	3.7	5.5	4.6	5.8	.22	.01
27	1.5	1.3	1.2	.96	.84	1.8	3.2	4.6	4.8	5.3	.17	.03
28	1.5	1.2	1.2	.89	.82	1.9	4.0	6.8	5.2	4.4	.14	.02
29	1.5	1.2	1.1	.95	.80	2.0	5.2	6.1	5.6	3.8	.13	.00
30	1.4	1.3	1.1	.96	---	2.1	2.8	7.2	9.7	3.3	.16	.00
31	1.5	---	1.1	.99	---	1.9	---	4.5	---	3.0	.13	---
TOTAL	79.7	40.6	42.0	32.50	26.74	37.22	99.9	134.7	141.7	206.5	28.81	1.35
MEAN	2.57	1.35	1.35	1.05	.92	1.20	3.33	4.35	4.72	6.66	.93	.045
MAX	7.6	1.6	1.6	1.2	1.0	2.1	5.9	10	9.7	16	2.7	.15
MIN	1.4	1.2	1.1	.89	.80	.77	2.0	2.4	3.0	3.0	.13	.00
AC-FT	158	81	83	64	53	74	198	267	281	410	57	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	7.11	6.24	4.36	3.92	18.7	85.0	58.0	35.3	55.6	15.2	11.4	8.41
MAX	19.1	13.7	10.5	6.43	118	582	428	209	366	30.5	17.9	12.5
(WY)	1987	1987	1986	1986	1986	1986	1986	1986	1986	1986	1988	1986
MIN	2.57	1.35	1.35	1.05	.92	1.20	2.36	4.35	4.72	5.89	.93	.045
(WY)	1992	1992	1992	1992	1992	1992	1991	1992	1992	1991	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	1468.7	871.72	26.5
ANNUAL MEAN	4.02	2.38	149
HIGHEST ANNUAL MEAN			2.38
LOWEST ANNUAL MEAN			728
HIGHEST DAILY MEAN	27	16	Jun 6 1986
LOWEST DAILY MEAN	1.1	.00	Sep 29 1992
ANNUAL SEVEN-DAY MINIMUM	1.2	.01	Sep 24 1992
INSTANTANEOUS PEAK FLOW		16	Jul 3 1986
INSTANTANEOUS PEAK STAGE		2.25	Jul 3 1986
ANNUAL RUNOFF (AC-FT)	2910	1730	19210
10 PERCENT EXCEEDS	9.4	5.6	24
50 PERCENT EXCEEDS	2.4	1.4	4.9
90 PERCENT EXCEEDS	1.4	.23	1.8

CARSON RIVER BASIN

174

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 sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Flow in canal is return flow from irrigated lands and ground water inflows from Fallon Indian Reservation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 40 ft³/s, November 1, 1990; no flow many days most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.10	.01	.05	.01	.00	.00	.29	.10	.21	.01	.00
2	.16	.09	.03	.05	.00	.00	.00	.26	.03	.06	.00	.00
3	.13	.07	.02	.03	.00	.00	.00	.23	.01	.27	.00	.00
4	.14	.04	.01	.02	.00	.00	.00	1.4	.17	.13	.00	.00
5	.20	.04	.01	.04	.00	.00	.00	.55	.31	.03	.00	.00
6	.19	.03	.01	.04	.00	.00	.00	.30	.02	.00	.00	.00
7	.16	.05	.05	.09	.00	.00	.00	.34	.00	.00	.00	.00
8	.12	.08	.04	.09	.00	.00	.00	.19	.00	.00	.00	.00
9	.23	.09	.04	.09	.00	.00	.00	.09	.00	.00	.00	.00
10	.86	.06	.06	.07	.00	.00	.00	.04	.00	.00	.00	.00
11	.61	.06	.07	.03	.00	.00	.00	.04	.00	.00	.00	.00
12	.74	.06	.05	.01	.05	.00	.00	.13	.00	.19	.00	.00
13	.59	.06	.04	.00	.06	.00	.00	.77	.00	2.3	.00	.00
14	.76	.05	.04	.00	.06	.00	.00	.21	.84	1.0	.00	.00
15	1.2	.04	.03	.00	.08	.00	.00	.15	2.0	.23	.00	.00
16	1.2	.04	.01	.00	.06	.00	.00	.01	.59	.53	.00	.00
17	.76	.05	.02	.00	.05	.00	.00	.03	.45	.30	.00	.00
18	.64	.06	.02	.00	.03	.00	.33	.01	.22	.11	.00	.00
19	.29	.03	.02	.00	.08	.00	.35	.00	.99	.02	.00	.00
20	.28	.04	.01	.00	.06	.00	.30	.27	.90	.51	.00	.00
21	.28	.04	.01	.00	.02	.00	.19	1.2	.16	3.2	.00	.00
22	.27	.03	.01	.00	.01	.00	.15	1.4	.02	1.7	.00	.00
23	.26	.03	.01	.00	.00	.00	.06	3.3	.01	.51	.00	.00
24	.27	.03	.00	.00	.00	.00	.50	1.7	.03	.37	.00	.00
25	.30	.02	.00	.00	.00	.00	1.1	1.1	.00	.53	.00	.00
26	.28	.02	.00	.00	.00	.00	1.5	.16	.39	.35	.00	.00
27	.22	.02	.02	.00	.00	.00	.91	.06	.94	.18	.00	.00
28	.21	.02	.02	.00	.00	.00	1.4	.03	.19	.10	.00	.00
29	.20	.02	.04	.00	.00	.00	1.2	.52	.04	.06	.00	.00
30	.13	.01	.06	.00	---	.00	.38	.49	.11	.03	.00	.00
31	.10	---	.06	.00	---	.00	---	.20	---	.01	.00	---
TOTAL	11.98	1.38	0.82	0.61	0.57	0.00	8.37	15.47	8.52	12.93	0.01	0.00
MEAN	.39	.046	.026	.020	.020	.000	.28	.50	.28	.42	.000	.000
MAX	1.2	.10	.07	.09	.08	.00	1.5	3.3	2.0	3.2	.01	.00
MIN	.10	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	24	2.7	1.6	1.2	1.1	.00	17	31	17	26	.02	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	3.68	2.18	.20	.027	.017	.050	.29	.90	1.86	1.32	1.73	.67
MEAN	3.68	2.18	.20	.027	.017	.050	.29	.90	1.86	1.32	1.73	.67
MAX	6.97	4.31	.38	.035	.020	.10	.30	1.30	3.44	2.22	3.46	1.35
(WY)	1991	1991	1991	1991	1992	1991	1991	1991	1991	1991	1991	1991
MIN	.39	.046	.026	.020	.014	.000	.28	.50	.28	.42	.000	.000
(WY)	1992	1992	1992	1992	1991	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	387.65	60.66	
ANNUAL MEAN	1.06	.17	1.08
HIGHEST ANNUAL MEAN			2.00
LOWEST ANNUAL MEAN			.17
HIGHEST DAILY MEAN	16	3.3	40
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	769	120	784
10 PERCENT EXCEEDS	3.3	.51	2.3
50 PERCENT EXCEEDS	.26	.02	.13
90 PERCENT EXCEEDS	.00	.00	.00

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

WATER-QUALITY RECORDS

SPECIFIC CONDUCTANCE.--October 1990 to current year.
WATER TEMPERATURE.--October 1990 to current year.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction and periods of no flow.

SPECIFIC CONDUCTANCE.--Maximum recorded, 67,200 microsiemens, October 19, 1990; minimum recorded, 1,000 microsiemens, May 24, 1992.

WATER TEMPERATURE.--Maximum recorded, 36.5°C, July 28, 1991; minimum recorded, freezing point, on many days each year.

SPECIFIC CONDUCTANCE.--Maximum recorded, 21,200 microsiemens, November 30; minimum recorded, 1,000 microsiemens, May 24.

WATER TEMPERATURE.--Maximum recorded, 33.5°C, June 27; minimum recorded, freezing point, November 28, 30, February 16-18.

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	4670	3340	3870
2	---	---	---	---	---	---	---	---	---	6340	4740	5620
3	---	---	---	---	---	---	---	---	---	7630	6350	6900
4	---	---	---	---	---	---	---	---	---	7740	5600	7110
5	---	---	---	---	---	---	---	---	---	6090	5410	5620
6	---	---	---	---	---	---	---	---	---	7220	6140	6530
7	---	---	---	---	---	---	---	---	---	8220	7260	7770
8	---	---	---	---	---	---	---	---	---	8260	7800	7970
9	---	---	---	---	---	---	---	---	---	8820	8330	8650
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	10400	9580	9920
12	15200	14500	14800	---	---	---	---	---	---	11500	10400	10900
13	14900	14600	14700	---	---	---	---	---	---	11300	10200	10700
14	15300	14600	15000	---	---	---	---	---	---	11100	9970	10900
15	15300	15200	15300	---	---	---	---	---	---	9720	7080	7950
16	15500	15100	15300	---	---	---	---	---	---	---	---	---
17	15300	15000	15200	---	---	---	---	---	---	---	---	---
18	15300	15100	15200	---	---	---	---	---	---	---	---	---
19	15200	15000	15100	---	---	---	17500	12400	14900	---	---	---
20	15200	14800	15000	---	---	---	16500	11700	13800	---	---	---
21	15200	14900	15000	---	---	---	17500	16600	17200	13000	6490	9120
22	---	---	---	---	---	---	17500	16500	17000	6440	4540	5430
23	---	---	---	---	---	---	16400	15900	16100	4200	1380	2060
24	---	---	---	---	---	---	15900	12500	15100	2500	1000	1750
25	---	---	---	---	---	---	12000	5660	7640	2830	1340	1800
26	---	---	---	---	---	---	8250	5560	6640	4670	2870	3640
27	---	---	---	---	---	---	5800	4900	5340	5790	4730	5240
28	---	---	---	---	---	---	5550	2710	4160	6710	5810	6150
29	---	---	---	---	---	---	2560	2000	2210	9150	6780	7780
30	---	---	---	---	---	---	3270	2430	2870	9100	5140	6850
31	---	---	---	---	---	---	---	---	---	5080	4560	4810
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	6420	5080	5750	8880	8230	8440	---	---	---	---	---	---
2	7190	6430	6720	9410	8260	8610	---	---	---	---	---	---
3	8010	7210	7590	10800	9560	10200	---	---	---	---	---	---
4	9020	8020	8420	10000	9210	9470	---	---	---	---	---	---
5	10500	8420	9260	---	---	---	---	---	---	---	---	---
6	11900	10500	11100	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	14600	9460	11700	---	---	---	---	---	---
13	---	---	---	11600	9200	9860	---	---	---	---	---	---
14	---	---	---	8870	5210	6200	---	---	---	---	---	---
15	12700	3990	6120	5210	4970	5110	---	---	---	---	---	---
16	5730	4130	5210	5230	3790	4590	---	---	---	---	---	---
17	5670	4610	5140	3820	3670	3750	---	---	---	---	---	---
18	4600	4430	4530	3970	3760	3850	---	---	---	---	---	---
19	7130	4540	5450	4250	3950	4090	---	---	---	---	---	---
20	5240	2940	3450	4430	3560	4120	---	---	---	---	---	---
21	3740	2950	3250	5240	3010	3650	---	---	---	---	---	---
22	4280	3760	3950	2910	2060	2260	---	---	---	---	---	---
23	---	---	---	2430	2090	2230	---	---	---	---	---	---
24	5700	4930	5420	2440	2280	2350	---	---	---	---	---	---
25	---	---	---	2680	2320	2450	---	---	---	---	---	---
26	---	---	---	3100	2690	2850	---	---	---	---	---	---
27	11100	10100	10600	3820	3110	3440	---	---	---	---	---	---
28	10200	9600	9960	4490	3830	4140	---	---	---	---	---	---
29	9580	9380	9450	5000	4480	4710	---	---	---	---	---	---
30	9660	8940	9360	5380	4990	5150	---	---	---	---	---	---
31	---	---	---	5740	5330	5490	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

[illegible]

HUMBOLDT RIVER BASIN

179

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.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, and daily discharges below 1.0 ft³/s, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period October 1991 to September 1992, 96 ft³/s, April 29, gage height, 2.60 ft; minimum daily, 0.18 ft³/s, August 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.6	5.8	e9.0	e4.1	e6.7	e31	43	88	13	6.4	.23	.41
2	e1.6	5.3	e9.0	e4.1	e7.6	e34	47	77	12	5.3	.25	.48
3	e1.7	3.9	e13	e4.1	e7.8	e36	53	71	11	4.7	.23	.49
4	e1.7	5.5	e17	e4.4	e7.4	e43	60	70	10	3.8	.19	.54
5	e1.8	5.9	e18	e4.5	e7.5	e44	60	71	9.0	3.3	.19	.64
6	e1.8	6.7	e18	e4.5	e7.8	e43	53	73	8.5	2.8	.21	.93
7	e1.8	e7.6	e17	e4.3	e8.3	e42	48	74	8.3	2.4	.21	1.1
8	e1.8	e9.3	e14	e4.1	e8.8	e40	46	77	8.0	2.2	.23	.95
9	e1.8	e11	e11	e3.9	e9.5	e39	44	80	7.1	1.9	.24	.88
10	1.8	e11	e9.1	e3.8	e11	e38	49	68	6.6	1.7	.23	.84
11	1.9	e12	e7.3	e3.7	e12	e36	55	59	6.2	1.5	.23	.83
12	1.9	e13	e7.4	e3.7	e12	e35	55	53	5.3	1.7	.18	.77
13	1.9	e14	e7.6	e3.7	e14	e35	52	50	6.5	1.9	.19	.63
14	1.9	e14	e7.4	e3.7	e15	39	54	48	7.4	1.7	.20	.73
15	2.0	e13	e7.0	e3.8	e15	41	55	48	8.3	1.3	.23	.75
16	2.1	e13	e6.8	e4.0	e15	39	53	46	7.8	1.1	.29	.77
17	2.2	e14	e6.9	e4.2	e15	35	59	43	8.8	.85	.31	.74
18	2.2	e13	e7.1	e4.3	e15	32	61	42	7.2	.61	.25	.75
19	2.4	e12	e6.2	e4.4	e15	29	56	40	6.3	.61	.23	.83
20	2.5	e13	e4.4	e4.3	e18	27	52	37	6.3	.58	.25	.85
21	2.6	e13	e3.8	e4.2	e29	26	52	34	5.3	.50	.25	.88
22	2.7	e12	e3.9	e4.3	e30	26	54	29	4.4	.43	.24	.94
23	2.7	e12	e4.4	e4.6	e31	28	49	27	3.8	.39	.27	.87
24	3.0	e12	e4.9	e5.6	e30	27	46	24	3.5	.39	.29	.92
25	3.2	e14	e5.1	e6.3	e31	27	46	22	4.2	.36	.28	.96
26	5.9	e16	e5.2	e6.7	e30	27	50	21	6.0	.33	.26	1.1
27	6.5	e15	e5.2	e6.8	e29	30	59	22	5.4	.32	.28	1.1
28	4.5	e13	e5.2	e6.6	e28	31	71	19	4.1	.29	.29	1.2
29	4.9	e11	e5.0	e6.0	e29	32	84	17	3.9	.25	.31	1.2
30	5.0	e9.4	e4.8	e5.9	---	35	95	15	7.1	.25	.34	1.2
31	4.6	---	e4.6	e6.1	---	39	---	14	---	.24	.38	---
TOTAL	84.0	330.4	255.3	144.7	495.4	1066	1661	1459	211.3	50.10	7.76	25.28
MEAN	2.71	11.0	8.24	4.67	17.1	34.4	55.4	47.1	7.04	1.62	.25	.84
MAX	6.5	16	18	6.8	31	44	95	88	13	6.4	.38	1.2
MIN	1.6	3.9	3.8	3.7	6.7	26	43	14	3.5	.24	.18	.41
AC-FT	167	655	506	287	983	2110	3290	2890	419	99	15	50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	2.71	11.0	8.24	4.67	17.1	34.4	55.4	47.1	7.04	1.62	.25	.84
MAX	2.71	11.0	8.24	4.67	17.1	34.4	55.4	47.1	7.04	1.62	.25	.84
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	2.71	11.0	8.24	4.67	17.1	34.4	55.4	47.1	7.04	1.62	.25	.84
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	5790.24
ANNUAL MEAN	15.8
HIGHEST DAILY MEAN	95 Apr 30
LOWEST DAILY MEAN	.18 Aug 12
ANNUAL SEVEN-DAY MINIMUM	.21 Aug 3
INSTANTANEOUS PEAK FLOW	96 Apr 29
INSTANTANEOUS PEAK STAGE	2.60 Apr 29
INSTANTANEOUS LOW FLOW	.15 Aug 4
ANNUAL RUNOFF (AC-FT)	11480
10 PERCENT EXCEEDS	48
50 PERCENT EXCEEDS	6.6
90 PERCENT EXCEEDS	.35

HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV--Continued

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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 32.0°C, August 12, 1992; minimum, freezing point on many days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum, 32.0°C, August 12; minimum, freezing point, many days November to March.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
2	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
3	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
4	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
5	---	---	---	---	---	---	.5	.0	.0	.0	.0	.0
6	---	---	---	---	---	---	.5	.0	.0	.0	.0	.0
7	---	---	---	---	---	---	1.0	.0	.0	.0	.0	.0
8	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
9	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
10	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
11	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
12	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
13	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
14	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
15	---	---	---	3.0	.5	2.0	.0	.0	.0	.0	.0	.0
16	---	---	---	3.0	.0	1.5	.0	.0	.0	.0	.0	.0
17	---	---	---	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
18	---	---	---	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
19	---	---	---	2.5	.0	1.0	.0	.0	.0	.0	.0	.0
20	---	---	---	2.5	.5	1.5	.0	.0	.0	.0	.0	.0
21	---	---	---	2.5	.0	1.5	.0	.0	.0	.0	.0	.0
22	---	---	---	1.5	.0	.0	.0	.0	.0	.0	.0	.0
23	---	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.0
24	---	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.0
25	---	---	---	2.0	.0	1.0	.0	.0	.0	.0	.0	.0
26	---	---	---	3.5	1.0	2.5	.0	.0	.0	.0	.0	.0
27	---	---	---	2.0	.0	1.5	.0	.0	.0	.0	.0	.0
28	---	---	---	1.0	.0	.0	.0	.0	.0	.0	.0	.0
29	---	---	---	.5	.0	.0	.0	.0	.0	.0	.0	.0
30	---	---	---	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	---	---	---	1.0	.0	.0	.0	.0	.0

HUMBOLDT RIVER BASIN

181

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	3.5	.0	1.5	13.0	3.5	8.0	15.0	6.5	10.0
2	.5	.0	.0	4.5	.0	2.0	13.5	3.5	8.5	14.5	4.0	9.5
3	.0	.0	.0	4.5	.5	2.5	14.0	4.5	9.0	16.0	5.0	10.5
4	.5	.0	.0	7.5	.5	3.5	11.5	5.0	8.0	17.0	6.0	11.0
5	.0	.0	.0	7.0	.0	3.0	11.0	3.0	6.5	18.0	7.0	12.0
6	.0	.0	.0	4.0	.0	1.5	10.0	1.5	5.5	16.5	7.5	12.0
7	.0	.0	.0	5.0	.0	2.5	11.5	1.0	6.0	15.5	8.0	11.5
8	.5	.0	.0	7.0	.0	3.5	11.5	3.5	7.5	13.5	8.0	11.0
9	.5	.0	.0	9.0	.0	4.0	12.5	4.0	8.0	12.0	6.0	9.0
10	.5	.0	.0	9.0	.5	4.5	12.0	6.0	8.0	14.5	4.5	9.0
11	.5	.0	.0	9.5	.5	4.5	12.0	4.5	8.0	16.5	6.5	11.0
12	1.0	.0	.0	10.0	1.0	5.0	12.0	5.5	8.5	17.0	6.5	11.5
13	1.5	.0	.0	10.0	1.5	5.5	11.0	4.5	8.0	16.5	8.0	12.5
14	1.0	.0	.5	10.0	2.0	5.5	14.0	6.5	9.5	15.0	8.0	11.0
15	.5	.0	.0	9.5	2.0	5.5	13.0	5.5	9.0	16.5	9.0	12.5
16	.0	.0	.0	6.0	2.5	4.0	12.5	5.5	9.0	19.5	8.0	13.0
17	1.0	.0	.0	7.5	1.5	4.0	10.5	5.5	8.0	20.0	9.0	14.0
18	1.0	.0	.0	9.0	1.0	4.5	10.5	3.0	6.0	19.0	9.0	14.0
19	2.5	.0	.5	10.0	.5	5.0	12.5	2.0	6.5	14.5	10.0	12.5
20	1.5	.0	.5	10.5	.5	5.0	11.5	3.0	7.5	17.0	8.0	12.5
21	.5	.0	.0	11.0	1.5	6.0	10.0	6.0	8.0	20.0	9.5	14.0
22	2.5	.0	1.0	9.0	.5	5.0	9.5	4.0	6.5	19.5	6.5	13.0
23	2.0	.0	.5	9.0	2.5	5.5	13.0	2.0	7.0	21.0	9.0	15.0
24	3.0	.0	1.5	11.5	3.0	6.5	14.5	3.5	9.0	20.0	9.5	15.0
25	4.5	.0	2.5	9.0	2.0	5.5	16.0	6.0	10.5	22.5	10.0	16.0
26	4.0	.0	2.0	9.5	4.0	6.5	16.0	7.0	11.5	17.5	12.5	15.0
27	5.0	.0	2.5	11.0	3.5	7.0	17.0	7.5	12.0	20.5	9.5	14.5
28	5.5	.0	2.0	10.5	2.5	6.5	17.0	7.0	12.0	18.5	9.5	14.0
29	5.0	.0	2.0	10.5	3.0	6.5	16.0	7.0	11.5	21.0	11.5	16.0
30	---	---	---	10.5	4.5	7.5	11.5	7.0	9.5	20.0	10.5	15.0
31	---	---	---	12.5	3.5	8.0	---	---	---	21.0	10.5	15.5
MONTH	5.5	.0	.5	12.5	.0	4.8	17.0	1.0	8.4	22.5	4.0	12.7
JUNE			JULY			AUGUST			SEPTEMBER			
1	23.5	11.0	17.0	19.0	12.0	15.0	27.0	16.0	20.5	19.0	12.0	15.0
2	20.5	13.5	17.0	18.5	12.0	15.5	25.0	16.0	20.0	20.5	12.0	16.0
3	21.0	11.5	16.5	21.0	13.0	16.5	27.0	15.5	20.0	19.0	13.0	16.0
4	21.5	12.5	17.0	21.0	14.0	17.5	29.0	12.5	19.5	16.5	13.0	14.5
5	20.5	11.0	16.0	23.0	13.5	17.5	28.5	12.5	19.0	18.5	10.5	14.0
6	19.5	11.5	15.5	22.5	13.0	17.0	28.5	12.0	19.0	18.0	10.5	14.0
7	18.5	11.5	15.0	24.0	13.0	18.0	29.5	12.5	19.5	19.5	8.5	13.5
8	19.0	12.5	15.5	23.5	12.5	17.5	29.0	12.5	19.5	19.5	10.0	14.0
9	21.0	12.5	16.5	24.5	12.5	18.0	31.0	12.5	20.0	21.5	10.5	15.5
10	20.0	13.5	16.5	24.5	13.0	18.5	30.0	12.5	19.5	20.0	10.5	15.0
11	22.0	13.0	17.5	22.0	13.5	17.5	31.0	11.5	19.5	18.0	12.5	15.0
12	18.5	11.0	14.5	24.0	14.5	18.5	32.0	11.0	20.5	18.5	11.5	14.5
13	15.0	8.5	12.0	21.0	13.5	17.5	29.0	14.0	20.5	16.0	9.5	12.5
14	12.0	9.5	10.5	23.5	13.5	18.5	27.5	16.0	21.5	17.5	9.0	13.0
15	15.0	8.5	12.0	25.5	14.0	19.0	28.0	17.5	21.0	18.0	9.5	13.5
16	14.0	9.5	11.5	25.5	13.0	19.0	27.5	15.5	20.0	19.0	9.5	14.0
17	17.5	9.0	13.5	25.5	13.5	19.5	30.0	14.0	20.5	19.0	10.5	14.5
18	20.5	13.0	16.5	23.0	16.0	19.0	30.0	14.0	21.0	18.0	10.0	14.0
19	19.0	12.5	15.5	24.0	15.0	19.5	28.5	15.0	19.5	16.5	10.0	13.0
20	20.5	11.5	16.0	23.0	14.5	18.5	28.0	13.5	19.5	18.5	10.0	13.5
21	23.0	13.0	18.0	24.0	13.5	18.5	27.5	12.5	18.5	20.5	10.5	15.0
22	23.0	14.5	19.0	23.5	14.5	19.0	25.5	10.5	16.5	20.0	11.0	15.0
23	24.0	15.5	19.5	24.0	14.5	18.5	21.5	9.0	14.5	18.0	11.5	14.5
24	21.5	15.5	18.0	22.0	13.5	18.0	21.5	8.0	14.0	15.0	10.0	12.5
25	20.0	15.0	17.0	24.5	15.0	19.5	22.0	8.0	13.5	15.5	8.0	11.0
26	20.0	13.5	16.5	24.5	14.5	19.5	23.5	5.0	13.0	17.5	7.5	11.5
27	24.0	14.5	19.0	24.0	15.0	19.5	24.5	7.5	14.5	18.5	8.5	13.0
28	24.5	17.0	20.0	23.5	15.5	19.0	23.5	9.0	15.0	19.0	9.0	13.0
29	17.0	14.0	15.5	25.0	14.5	19.0	18.0	11.0	14.0	19.0	9.0	13.0
30	18.0	12.0	15.0	25.5	14.0	19.0	20.0	11.5	15.0	18.0	9.5	13.5
31	---	---	---	26.0	14.5	19.5	19.0	13.5	15.5	---	---	---
MONTH	24.5	8.5	16.0	26.0	12.0	18.3	32.0	5.0	18.2	21.5	7.5	13.9

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.

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."

REMARKS.--Records good. Several diversions for irrigation of 7,150 acres, Humboldt Decree, above station. No flow occurred for part of each day, August 27-30, September 2-5, 1967.

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
May 1	1400	*81	*2.45				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

e Estimated

MEAN	6.31	12.0	15.8	20.3	39.1	75.0	176	250	157	26.9	4.69	2.95
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	.94	3.29	4.25	5.78	8.57	16.8	40.0	43.2	3.50	1.11	.49	.38
(WY)	1956	1991	1955	1955	1955	1977	1955	1992	1992	1961	1948	1955

ANNUAL TOTAL	9958.78		5890.9					
ANNUAL MEAN	27.3		16.1			65.4		
HIGHEST ANNUAL MEAN						194		1984
LOWEST ANNUAL MEAN						16.1		1992
HIGHEST DAILY MEAN	175	Jun 6	79	May 1		2690		Feb 12 1962
LOWEST DAILY MEAN	.99	Sep 3	1.1	Jul 31		.20		Aug 20 1944
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 21	1.1	Jul 30		.20		Aug 29 1948
INSTANTANEOUS PEAK FLOW			81	May 1		4210		Feb 12 1962
INSTANTANEOUS PEAK STAGE			2.45	May 1		7.63		Feb 12 1962
INSTANTANEOUS LOW FLOW						.00		Aug 27 1967
ANNUAL RUNOFF (AC-FT')	19750		11680			47390		
10 PERCENT EXCEEDS	82		51			201		
50 PERCENT EXCEEDS	10		8.6			18		
90 PERCENT EXCEEDS	1.4		1.5			1.6		

HUMBOLDT RIVER BASIN

183

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.--Not determined.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 5,410 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 61 ft³/s, May 1-2, gage height, 3.23 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e6.8	e6.3	e6.9	e27	32	58	7.5	.45	.00	.00
2	.00	.00	e6.4	e6.1	e7.8	29	33	60	6.4	.84	.00	.00
3	.00	.00	e6.6	e6.0	e7.9	32	34	58	5.4	.54	.00	.00
4	.00	.00	e7.0	e6.0	e7.8	39	35	55	4.5	.44	.00	.00
5	.00	.00	e7.5	e6.0	e7.8	37	37	53	3.6	.01	.00	.00
6	.00	.00	e7.9	e6.2	e8.4	39	40	50	3.3	.00	.00	.00
7	.00	.29	e8.0	e5.9	e9.0	37	41	49	2.8	.00	.00	.00
8	.00	3.7	e7.4	e5.5	e9.7	35	40	51	2.5	.00	.00	.00
9	.00	3.9	e6.8	e5.1	e10	31	38	52	2.2	.00	.00	.00
10	.00	3.9	e6.6	e4.9	e11	29	37	53	1.8	.00	.00	.00
11	.00	4.2	e6.5	e4.9	e11	29	37	53	1.5	.00	.00	.00
12	.00	4.2	e6.8	e4.9	e12	29	40	48	1.3	.00	.00	.00
13	.00	4.2	e7.0	e4.8	e13	29	42	48	1.2	.00	.00	.00
14	.00	4.2	e6.9	e4.8	e14	31	42	49	1.4	.00	.00	.00
15	.00	4.6	e6.7	e4.9	e15	33	42	42	2.0	.00	.00	.00
16	.00	4.7	e6.5	e5.1	e15	35	43	36	2.1	.00	.00	.00
17	.00	7.5	e6.4	e5.2	e14	36	41	33	1.6	.00	.00	.00
18	.00	8.0	e7.0	e5.1	e14	36	40	29	1.4	.00	.00	.00
19	.00	8.1	e7.7	e4.8	e15	34	45	27	1.2	.00	.00	.00
20	.00	9.5	e7.0	e4.7	e16	33	49	27	1.0	.00	.00	.00
21	.00	8.2	e6.4	e4.5	e17	32	48	27	.86	.00	.00	.00
22	.00	e6.8	e6.1	e4.7	e20	30	49	25	.66	.00	.00	.00
23	.00	e6.6	e5.6	e4.8	e26	32	49	24	.33	.00	.00	.00
24	.00	e6.5	e5.4	e5.0	e27	33	49	22	.00	.00	.00	.00
25	.00	6.5	e5.6	e5.4	e30	33	45	19	.20	.00	.00	.00
26	.00	7.0	e5.8	e6.3	e28	33	42	16	.21	.00	.00	.00
27	.00	12	e6.1	e6.6	e27	32	40	16	.00	.00	.00	.00
28	.00	e11	e6.4	e6.7	e26	31	40	13	.00	.00	.00	.00
29	.00	e9.2	e6.6	e6.7	e26	31	44	12	.00	.00	.00	.00
30	.00	e7.5	e6.6	e6.6	---	31	49	11	.00	.00	.00	.00
31	.00	---	e6.5	e6.6	---	31	---	9.1	---	.00	.00	---
TOTAL	0.00	152.29	206.6	171.1	452.3	1009	1243	1125.1	56.96	2.28	0.00	0.00
MEAN	.000	5.08	6.66	5.52	15.6	32.5	41.4	36.3	1.90	.074	.000	.000
MAX	.00	12	8.0	6.7	30	39	49	60	7.5	.84	.00	.00
MIN	.00	.00	5.4	4.5	6.9	27	32	9.1	.00	.00	.00	.00
AC-FT	.00	302	410	339	897	2000	2470	2230	113	4.5	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MEAN	.000	5.08	6.66	5.52	15.6	32.5	41.4	36.3	1.90	.074	.000	.000
MAX	.000	5.08	6.66	5.52	15.6	32.5	41.4	36.3	1.90	.074	.000	.000
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	.000	5.08	6.66	5.52	15.6	32.5	41.4	36.3	1.90	.074	.000	.000
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	4418.63
ANNUAL MEAN	12.1
HIGHEST DAILY MEAN	60
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	61
INSTANTANEOUS PEAK STAGE	3.23
ANNUAL RUNOFF (AC-FT)	8760
10 PERCENT EXCEEDS	40
50 PERCENT EXCEEDS	5.4
90 PERCENT EXCEEDS	.00

10315600 MARYS RIVER BELOW TWIN BUTTES NEAR DEETH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to September 1992.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June to September 1992.

INSTRUMENTATION.--Water temperature recorder since June 1992, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction or periods of no flow (see Water-Discharge Record).

TEMPERATURE, WATER (DEG C), JUNE 1992 TO SEPTEMBER 1992

[illegible]

185

LOCATION.--Lat 40°41'27", long 115°28'32", 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 Lamaille.

PERIOD OF RECORD.--May 1915 to June 1923, October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 8	2400	*160	*3.90				
Minimum daily, 3.0 ft ³ /s, Sept. 22.							

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.0	e7.2	7.4	5.0	6.0	15	92	64	34	6.2	4.2
2	6.3	5.0	e8.9	e7.2	5.0	6.1	16	85	71	32	6.0	4.1
3	6.2	5.7	e9.0	e7.1	4.8	6.8	19	86	73	28	5.8	4.2
4	6.0	5.0	9.4	6.9	5.0	7.4	22	93	65	25	5.6	4.7
5	5.9	5.7	9.1	6.9	4.8	6.8	23	105	60	24	5.4	4.5
6	5.6	7.1	9.3	7.1	4.8	7.2	24	114	55	22	5.4	4.2
7	5.6	8.2	9.4	7.1	4.8	7.2	24	123	51	21	5.0	4.2
8	5.3	8.1	9.0	e7.0	5.0	7.4	26	134	48	20	4.9	4.0
9	5.4	12	e8.0	e6.8	4.9	7.4	29	133	47	19	4.9	3.9
10	5.2	11	e8.3	e7.0	4.8	7.4	30	110	47	18	4.8	3.8
11	5.0	9.3	e8.0	7.2	4.8	7.4	36	109	45	17	4.7	3.7
12	4.9	9.3	e7.0	7.2	4.9	7.6	38	110	43	20	4.5	3.6
13	4.9	9.6	8.8	7.0	5.2	7.9	40	111	40	18	4.4	3.8
14	4.7	9.7	11	7.2	5.0	8.0	44	110	39	16	4.6	3.8
15	4.7	9.2	8.7	6.9	4.9	8.5	46	118	39	15	5.2	3.7
16	4.7	8.9	8.8	6.7	5.0	8.7	47	122	38	15	5.3	3.4
17	4.5	9.7	9.2	6.7	5.1	9.1	52	125	39	14	4.8	3.3
18	4.7	9.4	8.4	6.9	5.2	9.1	50	122	44	13	4.5	3.3
19	4.6	9.4	8.6	7.5	5.2	8.9	47	112	42	12	4.4	3.3
20	4.6	10	e8.0	6.7	5.7	9.0	49	102	40	12	4.4	3.2
21	4.7	11	e7.0	6.3	5.4	9.3	50	101	39	11	4.3	3.1
22	4.9	9.6	e6.5	5.7	6.4	9.6	48	88	38	11	4.4	3.0
23	5.0	e8.9	e7.3	5.2	5.5	10	47	87	37	10	4.3	3.2
24	4.8	e9.3	7.7	5.2	5.3	10	49	90	35	9.9	3.8	3.3
25	4.6	9.7	7.7	5.2	5.6	10	55	94	37	9.6	3.7	3.4
26	6.4	9.7	7.7	5.2	5.7	11	62	96	35	8.9	3.7	3.6
27	5.9	10	7.7	5.2	5.9	11	72	88	32	8.5	3.7	3.6
28	5.2	9.2	7.7	5.2	6.0	12	83	76	30	8.2	3.6	3.4
29	5.5	e9.8	7.7	5.0	6.0	12	96	68	31	7.4	3.7	3.3
30	6.0	e8.0	7.7	5.0	---	13	96	65	43	6.5	3.9	3.2
31	7.5	---	7.7	5.0	---	14	---	63	---	6.2	4.1	---
TOTAL	165.8	262.5	256.5	198.7	151.7	275.8	1335	3132	1347	492.2	144.0	110.0
MEAN	5.35	8.75	8.27	6.41	5.23	8.90	44.5	101	44.9	15.9	4.65	3.67
MAX	7.5	12	11	7.5	6.4	14	96	134	73	34	6.2	4.7
MIN	4.5	5.0	6.5	5.0	4.8	6.0	15	63	30	6.2	3.6	3.0
AC-FT	329	521	509	394	301	547	2650	6210	2670	976	286	210

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1992, BY WATER YEAR (WY)

MEAN	7.86	6.66	5.65	5.18	5.35	7.62	25.6	135	210	84.6	17.6	8.38
MAX	49.1	29.4	17.5	11.2	12.4	20.0	71.4	264	350	203	65.1	42.4
(WY)	1983	1983	1983	1971	1971	1989	1989	1984	1970	1975	1984	1982
MIN	2.70	3.04	2.60	2.00	2.55	3.06	5.37	48.2	44.9	15.1	4.65	3.08
(WY)	1988	1988	1988	1917	1991	1955	1955	1953	1992	1966	1992	1987

WATER YEARS 1915 - 1992

ANNUAL TOTAL	11718.8		7871.2					
ANNUAL MEAN	32.1		21.5			43.7		
HIGHEST ANNUAL MEAN						77.1		1984
LOWEST ANNUAL MEAN						20.5		1959
HIGHEST DAILY MEAN	374	Jun 12	134	May 8	693		May 30	1983
LOWEST DAILY MEAN	2.1	Jan 22	3.0	Sep 22		1.5	Jan 12	1963
ANNUAL SEVEN-DAY MINIMUM	2.4	Mar 2	3.2	Sep 17		2.0	Jan 1	1917
INSTANTANEOUS PEAK FLOW			160	May 8	838		Jun 3	1986
INSTANTANEOUS PEAK STAGE			3.90	May 8		6.08	Jun 3	1986
INSTANTANEOUS LOW FLOW			3.0	Sep 21		.10	Feb 24	1969
ANNUAL RUNOFF (AC-FT)	23240		15610		31640			
10 PERCENT EXCEEDS	120		65		152			
50 PERCENT EXCEEDS	7.9		7.7		8.4			
90 PERCENT EXCEEDS	2.6		4.3		3.7			

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, and 10 mi northeast of Elko.

DRAINAGE AREA.--2,800 mi², approximately.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s, March 5, gage height, 2.50 ft; minimum daily, 0.53 ft³/s, August 12.

CORRECTIONS.--The extremes for the period of record for maximum discharge and gage height for water years 1987-91 were published incorrectly. The correct figures are listed below in the instantaneous extremes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	17	e44	e42	e37	131	65	e79	16	e8.0	.60	1.6
2	3.2	21	e46	e40	38	120	64	e80	15	e6.4	.58	1.6
3	3.2	21	e48	e39	e39	140	63	e80	14	e5.3	.63	1.6
4	6.3	22	e51	e38	41	200	63	e79	13	e4.7	.66	1.6
5	8.7	22	e54	e38	49	209	64	e78	12	e4.0	.56	1.6
6	9.2	22	e54	e39	54	184	64	e75	11	e3.6	.74	1.3
7	5.0	22	55	e41	50	168	65	e70	10	e3.3	.68	1.3
8	4.0	24	e54	e40	44	147	66	e80	10	e2.9	.58	1.3
9	4.1	24	e53	e38	47	131	68	e90	10	e2.7	.56	1.3
10	4.9	25	e50	e42	55	117	68	e85	10	e2.6	.56	1.3
11	4.9	26	e48	e40	65	106	69	e80	10	2.6	.56	1.2
12	5.9	27	e47	e42	75	99	69	e75	10	2.5	.53	1.3
13	6.6	27	e46	e42	82	94	71	e70	9.9	2.0	.61	1.3
14	6.6	28	e46	e39	99	90	78	e70	9.2	2.0	.74	1.3
15	6.6	28	e46	e41	111	85	76	e68	10	2.0	1.0	1.3
16	6.6	29	e49	e41	104	85	68	e58	10	2.0	1.6	1.1
17	6.6	31	e51	e38	106	86	56	e50	9.4	1.7	1.6	.83
18	6.6	36	e50	e37	100	88	48	e46	9.1	1.6	1.6	.97
19	6.6	39	e48	e40	98	86	50	e43	8.6	1.6	1.3	.97
20	6.6	42	e45	e43	112	84	54	e40	8.6	1.6	1.2	.97
21	6.6	45	e39	e42	143	79	58	e38	8.6	1.6	.97	.94
22	7.2	50	e38	e40	177	77	e65	e33	8.0	1.3	.94	.82
23	7.2	44	e38	e40	187	80	e72	e30	8.1	1.3	.74	.86
24	7.2	49	e39	e40	188	82	e80	e26	7.8	1.2	.74	1.5
25	7.6	47	e40	37	175	78	e70	e22	7.5	.97	.74	1.6
26	13	50	e41	e37	162	77	e68	e20	e7.0	.96	.74	1.3
27	16	51	e42	e36	152	78	e62	16	e6.7	.74	.85	1.3
28	16	49	e43	e35	145	74	e60	15	e6.1	.74	.97	1.1
29	16	e45	e43	e38	140	71	e65	15	e5.4	.71	.97	.97
30	17	e43	e44	e37	---	68	e70	16	e7.0	.56	1.1	1.2
31	18	---	e43	e35	---	66	---	16	---	.56	1.5	---
TOTAL	247.4	1006	1435	1217	2875	3280	1959	1643	288.0	73.74	27.15	37.33
MEAN	7.98	33.5	46.3	39.3	99.1	106	65.3	53.0	9.60	2.38	.88	1.24
MAX	18	51	55	43	188	209	80	90	16	8.0	1.6	1.6
MIN	3.2	17	38	35	37	66	48	15	5.4	.56	.53	.82
AC-FT	491	2000	2850	2410	5700	6510	3890	3260	571	146	54	74

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1992, BY WATER YEAR (WY)

	MEAN	27.2	53.5	65.8	97.5	204	361	537	661	774	197	26.3	11.6
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	.50	.63	
(WY)	1955	1955	1960	1960	1955	1961	1992	1959	1992	1954	1954	1955	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1895 - 1992		
ANNUAL TOTAL	31681.9			14088.62			251		
ANNUAL MEAN	86.8			38.5			1101		
HIGHEST ANNUAL MEAN							35.6		
LOWEST ANNUAL MEAN							1961		
HIGHEST DAILY MEAN	675	Jun 15		209	Mar 5		6530	Mar 4	1983
LOWEST DAILY MEAN	1.4	Aug 25		.53	Aug 12		.00	Aug 6	1900
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 23		.58	Aug 7		.00	Aug 6	1900
INSTANTANEOUS PEAK FLOW				217	Mar 5		7200	Feb 19	1986
INSTANTANEOUS PEAK STAGE				2.50	Mar 5		12.30	Feb 13	1962
ANNUAL RUNOFF (AC-FT)	62840			27940			181800		
10 PERCENT EXCEEDS	209			85			721		
50 PERCENT EXCEEDS	45			36			73		
90 PERCENT EXCEEDS	4.2			.97			2.1		

HUMBOLDT RIVER BASIN

187

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 mi².

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.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 241 ft³/s, May 9, gage height, 3.04 ft, but may have been higher during period of plugged intake May 9-12; minimum daily, 2.2 ft³/s, September 30.

REVISIONS.--Revised figures of discharge for August and September 1991, superseding those published in the report for 1991 are given below.

DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1		e6.9	11	e18	e11	21	e8.1	e7.4
2		e6.5	12	e15	e12	22	e8.7	e7.8
3		e5.2	13	e14	e13	23	e7.3	e8.2
4		e4.5	14	e14	e11	24	e7.7	e8.6
5		e5.4	15	e13	e11	25	e8.0	e8.4
6	e21	e5.2	16	e9.3	e11	26	e8.4	e8.2
7	e13	e6.0	17	e12	e9.0	27	e6.6	e7.8
8	e13	e7.3	18	e7.4	e9.0	28	e6.6	e8.2
9	e15	e5.8	19	e6.9	e9.0	29	e6.9	e8.5
10	e14	e11	20	e8.5	e9.0	30	e6.2	e8.1
						31	e5.5	---

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
August 1991	383.1	12.4	24	5.5	760
September 1991	252.3	8.41	13	4.5	500
WTR YR 1991	25384.9	69.5			50350

e Estimated

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.4	13	16	e19	e24	42	53	131	87	25	4.0	3.1
2	e8.3	15	e17	e19	e24	42	e61	125	83	24	3.8	2.9
3	e8.1	14	18	e22	e23	48	e64	124	93	20	3.8	2.9
4	e7.5	15	17	e23	e22	82	e66	132	79	18	3.8	2.9
5	e7.3	18	18	e25	e22	72	e65	147	70	14	3.3	3.1
6	e7.2	20	19	e24	e23	67	e60	162	64	11	2.5	3.1
7	e7.0	21	21	e23	e25	68	e54	175	61	12	3.1	3.1
8	e7.0	20	19	e21	e29	60	e49	182	59	9.0	3.8	3.2
9	e6.9	29	15	e20	e30	54	e46	e208	51	e8.6	3.7	3.6
10	e6.6	32	17	e20	e33	51	e44	e182	41	e8.4	3.6	2.7
11	e6.5	25	16	e21	e35	50	e45	e192	31	e8.3	3.5	2.5
12	e6.8	22	18	e20	36	49	e49	e182	28	e8.6	3.5	2.9
13	e6.6	e22	15	e20	35	50	e50	184	32	e9.2	3.5	2.9
14	e6.2	23	13	e20	35	51	e51	186	36	e8.3	e3.4	2.8
15	e6.3	e20	14	e20	32	51	e49	196	42	e7.3	e3.5	2.7
16	e6.3	19	14	e19	31	51	52	204	40	e6.5	3.5	2.7
17	e6.5	22	15	e18	28	51	49	207	38	e5.9	e3.5	2.7
18	e6.6	28	19	e18	30	50	59	198	e39	e5.2	e3.4	2.6
19	e6.9	30	17	e18	33	47	59	188	40	e4.9	3.5	2.6
20	e7.0	27	11	e18	46	45	58	168	38	e4.6	3.5	2.6
21	e7.6	31	e14	e19	46	44	57	161	33	e4.4	3.5	2.6
22	e7.6	27	e14	e20	61	45	56	148	28	e4.3	3.5	2.6
23	e8.0	20	e14	e21	58	55	54	139	24	4.2	3.3	2.7
24	e8.6	25	e14	e21	48	55	54	132	20	4.2	3.3	2.8
25	e9.0	24	e15	e21	e45	51	56	128	21	4.2	3.3	e2.7
26	e9.8	24	e17	e21	e43	50	70	131	27	4.0	3.3	e2.7
27	e11	26	e19	e21	38	50	86	127	22	4.1	3.1	e2.6
28	e12	26	e20	e20	41	49	108	121	17	4.2	2.8	2.5
29	e13	26	e20	e19	42	49	125	110	17	4.2	3.1	2.4
30	11	17	e20	e19	---	49	134	100	33	4.0	2.5	2.2
31	18	---	e19	e22	---	51	---	92	---	4.0	2.8	---
TOTAL	255.6	681	515	632	1018	1629	1883	4862	1294	264.6	104.7	83.4
MEAN	8.25	22.7	16.6	20.4	35.1	52.5	62.8	157	43.1	8.54	3.38	2.78
MAX	18	32	21	25	61	82	134	208	93	25	4.0	3.6
MIN	6.2	13	11	18	22	42	44	92	17	4.0	2.5	2.2
AC-FT	507	1350	1020	1250	2020	3230	3730	9640	2570	525	208	165

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	9.01	15.7	11.7	15.0	31.4
MAX	12.4	22.7	16.6	20.4	43.0
(WY)	1990	1992	1992	1989	1989
MIN	6.43	10.7	9.26	10.0	20.5
(WY)	1991	1991	1990	1990	1991

HUMBOLDT RIVER BASIN

188

10319900 SOUTH FORK HUMBOLDT RIVER ABOVE TENMILE CREEK NEAR ELKO, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1988 - 1992	
ANNUAL TOTAL	26026.0		13222.3			
ANNUAL MEAN	71.3		36.1		55.1	
HIGHEST ANNUAL MEAN					69.5	
LOWEST ANNUAL MEAN					36.1	
HIGHEST DAILY MEAN	942	Jun 13	208	May 9	942	Jun 13 1991
LOWEST DAILY MEAN	4.5	Sep 4	2.2	Sep 30	2.2	Sep 30 1992
ANNUAL SEVEN-DAY MINIMUM	5.6	Aug 31	2.6	Sep 24	2.6	Sep 24 1992
INSTANTANEOUS PEAK FLOW			241	May 9	1090	Jun 13 1991
INSTANTANEOUS PEAK STAGE			3.04	May 9	4.69	Jun 13 1991
ANNUAL RUNOFF (AC-FT)	51620		26230		39910	
10 PERCENT EXCEEDS	219		86		211	
50 PERCENT EXCEEDS	21		20		20	
90 PERCENT EXCEEDS	7.3		3.3		5.9	

HUMBOLDT RIVER BASIN

189

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 mi², approximately.

PERIOD OF RECORD.--October 1948 to September 1982, July 1988 to current year. Monthly discharge only for some periods, published in WSP 1314. The current record period is not considered equivalent record due to completion of South Fork Dam 2 mi upstream.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above sea level, from topographic map.

REMARKS.--Records good. Diversions for irrigation of 32,900 acres above station. Flow regulated by South Fork Reservoir, approximately 2.0 mile upstream, since December, 1987. Records not adjusted for storage. Maximum discharge (water years 1949-82) 3,100 ft³/s, January 12, 1979, gage height, 6.80 ft; minimum daily 0.10 ft³/s, September 9, 1959. Average discharge for the same period is 117 ft³/s, 84,770 acre-ft/yr.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 238 ft³/s, May 11, gage height, 3.31 ft; minimum daily, 5.3 ft³/s, August 24-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	17	e26	24	25	34	55	121	62	20	6.4	6.2
2	14	17	26	24	25	42	50	120	36	18	6.4	6.2
3	14	17	26	24	25	54	50	120	38	15	6.4	6.1
4	14	18	25	25	25	79	51	120	39	15	6.4	6.1
5	14	20	26	25	24	100	52	120	40	15	6.3	6.1
6	14	19	26	25	26	100	52	132	41	12	6.3	6.1
7	14	19	26	25	26	98	51	153	42	8.8	6.2	6.1
8	15	19	26	23	26	95	50	173	44	8.5	6.1	6.1
9	15	21	25	24	25	95	51	189	44	7.3	6.1	6.1
10	15	20	25	23	25	80	52	188	39	7.2	6.1	6.1
11	15	20	25	23	25	55	52	211	32	7.3	6.0	6.1
12	15	20	26	23	25	54	53	196	26	7.5	6.0	6.1
13	15	20	25	23	25	54	60	180	20	7.2	6.1	6.1
14	15	21	25	23	24	52	67	202	21	7.2	6.0	6.1
15	15	20	25	24	24	53	68	201	21	6.9	6.1	6.1
16	15	20	25	23	24	53	53	199	21	6.8	6.0	6.1
17	15	21	25	24	24	54	43	200	22	6.8	6.0	6.2
18	15	25	26	24	24	52	42	199	23	6.7	5.9	6.4
19	15	29	25	24	28	52	42	200	23	6.5	5.9	6.4
20	15	27	24	24	35	51	41	195	22	6.4	5.9	6.4
21	15	28	24	24	35	51	41	171	21	6.5	5.8	6.3
22	16	27	24	24	36	52	42	134	21	6.5	5.8	6.4
23	16	27	24	25	35	53	43	135	21	6.4	5.5	6.4
24	16	26	24	25	35	54	43	127	19	6.4	5.3	6.4
25	16	27	24	25	35	56	45	102	15	6.4	5.3	6.4
26	17	27	24	25	35	54	49	103	16	6.4	5.6	6.4
27	17	27	24	25	35	54	86	98	16	6.4	5.6	6.3
28	16	27	23	25	35	54	121	82	16	6.4	5.7	6.1
29	16	27	24	25	35	54	120	82	16	6.4	5.7	6.0
30	15	26	25	25	---	55	120	82	18	6.4	6.0	5.9
31	16	---	25	25	---	57	---	83	---	6.4	6.1	---
TOTAL	462.6	679	773	750	826	1901	1745	4618	835	266.7	185.0	185.8
MEAN	14.9	22.6	24.9	24.2	28.5	61.3	58.2	149	27.8	8.60	5.97	6.19
MAX	17	29	26	25	36	100	121	211	62	20	6.4	6.4
MIN	7.6	17	23	23	24	34	41	82	15	6.4	5.3	5.9
AC-FT	918	1350	1530	1490	1640	3770	3460	9160	1660	529	367	369

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1992, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992
MEAN	8.91	14.0	15.8	16.7	33.1
MAX	14.9	22.6	24.9	24.2	39.8
(WY)	1992	1992	1992	1992	1989
MIN	4.55	8.35	8.45	10.9	25.2
(WY)	1991	1991	1991	1991	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1988 - 1992

ANNUAL TOTAL	26294.0	13227.1	
ANNUAL MEAN	72.0	36.1	62.4
HIGHEST ANNUAL MEAN			84.3
LOWEST ANNUAL MEAN			36.1
HIGHEST DAILY MEAN	770	211	770
LOWEST DAILY MEAN	5.6	5.3	1.7
ANNUAL SEVEN-DAY MINIMUM	5.8	5.5	2.6
INSTANTANEOUS PEAK FLOW		238	782
INSTANTANEOUS PEAK STAGE		3.31	4.13
ANNUAL RUNOFF (AC-FT)	52150	26240	45230
10 PERCENT EXCEEDS	174	84	173
50 PERCENT EXCEEDS	24	24	18
90 PERCENT EXCEEDS	8.0	6.1	5.7

HUMBOLDT RIVER BASIN

190

10320100 DIXIE CREEK ABOVE SOUTH FORK HUMBOLDT RIVER, NEAR ELKO, NV

LOCATION.--Lat 40°39'30", long 115°51'13", in NE 1/4 SE 1/4 sec.14, T.32 N., R.54 E., Elko County, Hydrologic Unit 16040103, on left bank, 2.5 mi upstream from confluence with South Fork Humboldt River, and about 13 mi southwest of Elko.

DRAINAGE AREA.--159 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,210 ft above sea level, from topographic map.

REMARKS.--Records poor. No flow most years during summer months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, occurred sometime during period March 4 to April 5, gage height unknown, maximum estimated daily discharge 6.0 ft³/s, March 4; no flow many days July through September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	e.60	e.39	e.43	e.48	e3.1	e4.3	e.66	.22	.01	.00	.00
2	.15	e.68	e.52	e.42	e.48	e3.2	e4.8	e.69	.21	.01	.00	.00
3	.16	e.60	e.36	e.42	e.49	e3.3	e5.1	e.72	.28	.01	.00	.00
4	.17	e.68	e.36	e.47	e.50	e6.0	e5.3	e.72	.22	.01	.00	.00
5	.18	e.70	e.38	e.48	e.50	e5.7	e5.0	e.58	.19	.00	.00	.00
6	.18	e.76	e.38	e.47	e.51	e5.1	e4.2	.39	.18	.00	.00	.00
7	.18	e.77	e.41	e.47	e.55	e5.0	e3.7	.40	.16	.00	.00	.00
8	.20	e.71	e.40	e.50	e.58	e4.8	e2.9	.47	.20	.00	.00	.00
9	.22	e.88	e.35	e.50	e.60	e4.4	e2.6	.45	.17	.00	.00	.00
10	.24	e1.0	e.39	e.50	e.75	e4.2	e2.2	.37	.11	e.01	.00	.00
11	.25	e.90	e.39	e.49	e1.0	e4.0	e2.1	.34	.05	e.01	.00	.00
12	.26	e.60	e.42	e.49	e1.4	e3.9	e2.2	.35	.03	e.01	.00	.00
13	.25	e.69	e.36	e.52	e1.3	e4.0	e2.5	.35	.13	e.00	.00	.00
14	.26	e.68	e.32	e.53	e1.2	e4.0	e2.6	.42	.41	e.00	.00	.00
15	.27	e.70	e.36	e.57	e1.0	e4.1	e2.6	.42	.37	e.00	.00	.00
16	.26	e.58	e.38	e.58	e.92	e4.2	e2.4	.37	.23	e.00	.00	.00
17	.26	e.60	e.45	e.57	e.90	e4.1	e2.3	.30	.14	e.00	.00	.00
18	.26	e.72	e.38	e.54	e1.2	e4.0	e1.9	.28	.10	e.00	.00	.00
19	.26	e.73	e.28	e.53	e1.5	e3.8	e1.6	.29	.07	e.00	.00	.00
20	.27	e.68	e.32	e.53	e2.5	e3.7	e1.6	.32	.04	e.00	.00	.00
21	e.32	e.63	e.34	e.52	e2.4	e3.6	e1.7	.35	.03	e.00	.00	.00
22	e.33	e.53	e.35	e.50	e3.3	e3.7	e1.8	.34	.02	e.00	.00	.00
23	e.37	e.45	e.36	e.50	e3.2	e4.2	e1.7	.32	.01	e.00	.00	.00
24	e.40	e.47	e.38	e.49	e3.0	e4.3	e1.4	.30	.01	e.00	.00	.00
25	e.40	e.47	e.39	e.47	e3.8	e4.0	e1.2	.23	.01	e.00	.00	.00
26	e.47	e.50	e.38	e.46	e2.9	e4.0	e.75	.24	.01	e.00	.00	.00
27	e.53	e.60	e.38	e.47	e2.7	e3.9	e.65	.29	.01	e.00	.00	.00
28	e.58	e.54	e.40	e.48	e2.9	e3.9	e.50	.27	.01	.00	.00	.00
29	e.60	e.44	e.41	e.47	e3.0	e3.8	e.60	.28	.01	.00	.00	.00
30	e.58	e.37	e.41	e.45	---	e4.0	e.70	.27	.02	.00	.00	.01
31	e.70	---	e.42	e.48	---	e4.2	---	.27	---	.00	.00	---
TOTAL	9.70	19.26	11.82	15.30	45.56	128.2	72.90	12.05	3.65	0.07	0.00	0.01
MEAN	.31	.64	.38	.49	1.57	4.14	2.43	.39	.12	.002	.000	.000
MAX	.70	1.0	.52	.58	3.8	6.0	5.3	.72	.41	.01	.00	.01
MIN	.14	.37	.28	.42	.48	3.1	.50	.23	.01	.00	.00	.00
AC-FT	19	38	23	30	90	254	145	24	7.2	.1	.00	.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	.38	.56	.41	.56	1.55	5.09	3.70	4.43	2.18	.10	.11	.11
MAX	.43	.64	.48	.69	2.09	9.83	5.26	10.9	4.19	.17	.20	.24
(WY)	1990	1992	1990	1990	1990	1990	1990	1991	1991	1990	1990	1990
MIN	.31	.52	.36	.49	.99	1.32	2.43	.39	.12	.002	.000	.000
(WY)	1992	1991	1991	1992	1991	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	701.95	318.52	
ANNUAL MEAN	1.92	.87	1.60
HIGHEST ANNUAL MEAN			2.01
LOWEST ANNUAL MEAN			.87
HIGHEST DAILY MEAN	17 May 14	6.0 Mar 4	36 Mar 3 1990
LOWEST DAILY MEAN	.01 Aug 11	.00 Jul 5	.00 Jul 5 1992
ANNUAL SEVEN-DAY MINIMUM	.02 Aug 7	.00 Jul 13	.00 Jul 13 1992
INSTANTANEOUS PEAK FLOW		unknown	65 Mar 3 1990
INSTANTANEOUS PEAK STAGE		unknown	2.50 Mar 3 1990
ANNUAL RUNOFF (AC-FT)	1390	632	1160
10 PERCENT EXCEEDS	5.8	3.4	4.5
50 PERCENT EXCEEDS	.60	.38	.47
90 PERCENT EXCEEDS	.09	.00	.03

HUMBOLDT RIVER BASIN

191

10320100 DIXIE CREEK ABOVE SOUTH FORK HUMBOLDT RIVER, NEAR ELKO, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 02...	1240	3.3	23	0.21	97
JUN 05...	1040	0.25	25	0.02	41

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV
(National Stream-Quality Accounting Network Station)

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, and 15 mi southwest of Elko.

DRAINAGE AREA.--4,310 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,931.91 ft above sea level (levels by Nevada State Highway Department).

REMARKS.--Records good except for estimated daily discharges, which are poor. Many diversions for irrigation of about 143,000 acres, above station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 28, 1910, estimated to have reached 15,000 ft³/s, based on reported stage and comparison with Humboldt River at Palisade.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft³/s, March 7, gage height, 2.32 ft; minimum daily, 4.3 ft³/s, July 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e14	30	e62	65	e74	183	163	139	101	20	8.7	14
2	e13	34	e63	63	e76	178	157	135	75	23	9.1	15
3	e13	34	63	64	e73	193	153	120	62	21	10	15
4	e14	37	68	e66	e72	233	134	121	60	17	9.5	15
5	e15	35	67	e68	71	275	145	125	58	15	9.4	15
6	e17	37	67	e67	71	312	143	124	58	14	9.6	14
7	e19	37	72	e65	74	314	142	143	57	14	9.2	14
8	e20	39	72	64	80	290	142	159	56	11	8.4	14
9	e20	44	61	59	81	276	142	205	53	9.4	8.0	14
10	e20	45	e62	e60	84	260	143	207	51	8.1	8.0	13
11	e21	43	e64	e61	88	224	147	204	45	7.0	8.0	12
12	e21	43	e65	e62	91	206	150	259	40	7.3	8.0	12
13	e21	47	e67	e63	104	197	152	202	38	7.0	8.3	12
14	e21	50	e68	e65	113	192	163	233	38	5.0	8.8	12
15	e21	47	e68	e66	119	187	164	233	38	4.9	8.4	12
16	e22	46	69	e70	119	183	154	230	34	4.8	9.2	12
17	e21	51	70	e71	126	183	151	228	33	4.5	8.4	12
18	e21	59	76	e70	124	182	139	226	31	4.3	8.2	12
19	e21	57	76	e68	124	177	131	224	31	4.4	7.8	13
20	e22	61	68	e68	135	175	121	222	30	5.1	7.5	14
21	e22	61	e67	e69	140	175	116	211	29	6.0	7.0	13
22	e22	62	e67	e68	173	172	116	172	28	6.6	7.0	13
23	23	63	68	e69	198	174	117	155	27	7.4	7.3	13
24	23	66	67	e71	211	172	104	153	26	8.5	8.3	12
25	23	62	66	e73	216	176	95	136	25	7.9	9.1	12
26	28	63	67	e72	210	179	94	127	23	9.0	10	13
27	29	71	68	e70	199	175	102	125	22	12	12	14
28	25	72	69	e69	193	172	145	112	20	10	12	14
29	30	70	70	e68	187	172	141	106	19	8.6	13	13
30	30	60	71	e69	---	171	135	104	22	8.0	13	13
31	29	---	70	e71	---	167	---	103	---	8.1	13	---
TOTAL	661	1526	2098	2074	3626	6325	4101	5243	1230	298.9	284.2	396
MEAN	21.3	50.9	67.7	66.9	125	204	137	169	41.0	9.64	9.17	13.2
MAX	30	72	76	73	216	314	164	259	101	23	13	15
MIN	13	30	61	59	71	167	94	103	19	4.3	7.0	12
AC-FT	1310	3030	4160	4110	7190	12550	8130	10400	2440	593	564	785

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1992, BY WATER YEAR (WY)

	MEAN	45.7	77.8	101	140	276	506	731	978	1212	343	51.5	26.0
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	1984
MIN	1.80	5.48	7.11	10.0	22.3	107	108	78.8	41.0	6.96	.92	.52	
(WY)	1955	1955	1955	1955	1955	1955	1959	1959	1992	1966	1959	1954	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1944 - 1992

ANNUAL TOTAL	52511	27863.1											
ANNUAL MEAN	144	76.1								373			
HIGHEST ANNUAL MEAN										1730		1984	
LOWEST ANNUAL MEAN										63.6		1959	
HIGHEST DAILY MEAN	1190	Jun 17				314	Mar 7			8090		May 18	1984
LOWEST DAILY MEAN	12	Sep 18				4.3	Jul 18			.20		Aug 13	1959
ANNUAL SEVEN-DAY MINIMUM	13	Sep 16				4.7	Jul 14			.30		Aug 11	1959
INSTANTANEOUS PEAK FLOW						331	Mar 7			8250		May 17	1984
INSTANTANEOUS PEAK STAGE						2.32	Mar 7			10.21		Feb 14	1962
INSTANTANEOUS LOW FLOW										.10		Aug 16	1959
ANNUAL RUNOFF (AC-FT)	104200	55270								270400			
10 PERCENT EXCEEDS	338	182								1060			
50 PERCENT EXCEEDS	68	63								116			
90 PERCENT EXCEEDS	16	8.9								13			

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

193

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-1952, 1962 to current year (published as Humboldt River at Carlin, station 10321000, October 1965 to September 1968).

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1965 to September 1968.

SPECIFIC CONDUCTANCE: October 1965 to September 1968; May 1981 to September 1983.

WATER TEMPERATURE: October 1965 to September 1968; May 1981 to September 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 677 microsiemens, December 21, 22, 1966; minimum daily, 193 microsiemens, February 16, 1982.

WATER TEMPERATURE: Maximum daily, 29.0°C, July 26, 28, 29, 1968; minimum daily, freezing point on some days during winter months of most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI KF AGAR (COLS. PER 100 ML)
NOV 01...	1215	32	458	8.5	8.0	4.0	2.0	12.3	112	K4	K29
DEC 28...	1000	68	506	8.2	4.0	0.5	4.6	12.2	102	K10	22
FEB 26...	1230	215	412	8.4	16.5	7.0	49	11.2	110	K6	--
APR 28...	1415	149	432	8.5	29.0	19.5	13	9.4	122	60	87
AUG 27...	0936	11	451	8.4	14.0	13.0	3.5	8.8	99	K16	41

DATE	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS Cl)
NOV 01...	180	51	13	40	1	7.7	215	11	194	48	21
DEC 28...	190	56	12	45	1	7.1	194	--	159	47	20
FEB 26...	150	46	9.4	32	1	7.2	219	3	185	27	16
APR 28...	140	42	9.0	39	1	6.6	217	--	178	31	18
AUG 27...	150	38	14	41	1	8.3	223	4	190	33	20

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 01...	0.60	27	306	326	0.42	0.020	<0.010	0.062	0.063	0.020	0.020
DEC 28...	0.50	25	332	308	0.45	0.010	<0.010	<0.050	<0.050	0.010	<0.010
FEB 26...	0.50	25	274	274	0.37	0.020	<0.010	<0.050	<0.050	0.020	<0.010
APR 28...	0.50	22	268	275	0.36	0.010	<0.010	<0.050	<0.050	0.020	<0.010
AUG 27...	0.60	23	273	292	0.37	<0.010	<0.010	<0.050	<0.050	0.020	0.020

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 01...	<0.20	0.030	0.010	0.030	<0.010	<10	110	<3	7	63	12
DEC 28...	0.20	<0.010	0.020	0.010	<0.010	--	--	--	--	--	--
FEB 26...	0.50	0.140	0.040	0.050	0.020	120	71	<3	64	26	8
APR 28...	0.30	0.040	<0.010	0.030	<0.010	20	71	<3	10	30	5
AUG 27...	0.40	0.020	<0.010	<0.010	0.010	<10	110	<3	8	49	7

DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE DIS- SOLVED (MG/L AS CN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 01...	<10	<1	<1	<1.0	430	<6	--	--	32	2.8	76
DEC 28...	--	--	--	--	--	--	<0.010	--	25	4.6	65
FEB 26...	<10	2	<1	<1.0	290	<6	--	<0.01	166	96	97
APR 28...	<10	1	<1	<1.0	330	<6	--	<0.01	86	35	79
AUG 27...	<10	<1	<1	<1.0	480	<6	<0.010	--	11	0.33	95

K: NON-IDEAL COLONY COUNT

HUMBOLDT RIVER BASIN

195

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 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 4,910 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge 2,470 ft³/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 during period April to September, 1.5 ft³/s, May 1, gage height, 1.46 ft; no flow, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.1	.00	.00	.00	.00
2	---	---	---	---	---	---	---	1.1	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.75	.00	.00	.00	.00
4	---	---	---	---	---	---	---	.65	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.61	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.54	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.51	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.53	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.70	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.72	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.67	.00	.00	.00	.00
12	---	---	---	---	---	---	---	.51	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.44	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.43	.01	.00	.00	.00
15	---	---	---	---	---	---	---	.43	.39	.00	.00	.00
16	---	---	---	---	---	---	---	.32	.22	.00	.00	.00
17	---	---	---	---	---	---	---	.18	.08	.00	.00	.00
18	---	---	---	---	---	---	---	.10	.01	.00	.00	.00
19	---	---	---	---	---	---	---	.08	.00	.00	.00	.00
20	---	---	---	---	---	---	---	.10	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.05	.00	.00	.00	.00
22	---	---	---	---	---	---	---	.01	.00	.00	.00	.00
23	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
29	---	---	---	---	---	---	e.97	.00	.00	.00	.00	.00
30	---	---	---	---	---	---	.77	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	10.53	0.71	0.00	0.00	0.00
MEAN	---	---	---	---	---	---	---	.34	.024	.000	.000	.000
MAX	---	---	---	---	---	---	---	1.1	.39	.00	.00	.00
MIN	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	21	1.4	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1992, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	.34	.024	.000	.000	.000
MAX	---	---	---	---	---	---	---	.34	.024	.000	.000	.000
(WY)	---	---	---	---	---	---	---	1992	1992	1992	1992	1992
MIN	---	---	---	---	---	---	---	.34	.024	.000	.000	.000
(WY)	---	---	---	---	---	---	---	1992	1992	1992	1992	1992

HUMBOLDT RIVER BASIN

10321860 JACK CREEK BELOW INDIAN CREEK NEAR CARLIN, NV

LOCATION.--Lat 40°57'04", long 116°14'22", in NW 1/4 SE 1/4 sec.4, T.35 N., R.51 E., Elko County, Hydrologic Unit 16040101, on left bank, 1.0 mi downstream from Indian Creek, and 22 mi north of Carlin.

DRAINAGE AREA.--10.47 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,640 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.3 ft³/s, March 6, gage height, 0.69 ft; minimum daily, 0.06 ft³/s, September 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	e.13	e.18	e.17	e.44	1.8	e.90	.44	.25	.10	.14	.10
2	.24	.12	e.18	e.16	e.42	1.8	e.80	.44	.28	.10	.14	.08
3	.23	.10	e.18	e.16	e.40	1.9	e.80	.44	.29	.10	.13	.10
4	.22	.10	e.20	e.17	e.39	2.0	e.80	.44	.27	.10	.12	.10
5	.22	.10	e.22	e.16	e.41	2.0	e.70	.43	.27	.09	.14	.07
6	.20	.10	e.23	e.15	e.43	2.1	e.70	.43	.27	.09	.17	.08
7	.24	.10	e.20	e.15	e.45	1.6	e.70	.43	.27	.09	.20	.07
8	.23	.11	e.17	e.15	e.50	1.9	e.70	.42	.26	.09	.26	.07
9	.22	.10	e.17	e.15	e.58	1.8	.61	.42	.25	.08	.24	.07
10	.24	.10	e.17	e.16	e.68	e1.7	.59	.41	.23	.08	.28	.07
11	.23	.10	e.16	e.17	e.78	e1.7	.58	.41	.22	.07	.26	.07
12	.23	.10	e.17	e.17	e.82	e1.6	.55	.42	.20	.07	.25	.07
13	.24	.13	e.19	e.15	e.84	e1.6	.53	.43	.20	.08	.26	.08
14	.20	.11	e.20	.12	e.82	e1.5	.57	.43	.22	.09	.25	.07
15	.21	.10	e.20	.14	e.76	e1.5	.54	.42	.20	.09	.25	.07
16	e.21	.12	e.20	.15	e.74	e1.6	.52	.40	.19	.09	.27	.08
17	e.21	.21	e.20	.12	e.74	e1.5	.55	.40	.18	.09	.25	.09
18	e.20	.26	e.19	.25	e.78	e1.3	.52	.40	.18	.09	.23	.08
19	e.19	.26	e.18	.31	e.82	e1.2	.51	.41	.17	.09	.22	.07
20	.17	.25	e.17	e.29	e1.0	e1.1	.53	.40	.17	.10	.22	.06
21	.18	.25	e.17	e.28	e1.3	e.94	.51	.39	.18	.12	.22	.07
22	.16	e.26	e.19	e.28	e1.5	e.84	.50	.36	.18	.11	.20	.10
23	.15	e.30	e.20	e.31	e1.7	e.84	.49	.35	.16	.11	.18	.09
24	.13	e.25	e.17	e.39	e1.9	e.90	.49	.35	.16	.12	.17	.09
25	.16	.25	e.19	e.38	e1.8	e.95	.48	.35	.15	.12	.16	.09
26	.16	.25	e.19	e.35	e1.7	e.92	.46	.32	.12	.12	.16	.08
27	.14	.22	e.20	e.32	e1.7	e.88	.44	.29	.12	.14	.14	.09
28	.29	.22	e.20	e.31	e1.8	e.86	.44	.29	.12	.12	.14	.09
29	.12	.22	e.20	e.31	1.8	e.82	.47	.27	.10	.12	.12	.10
30	.13	e.19	e.19	e.35	---	e.78	.45	.27	.10	.13	.12	.12
31	e.13	---	e.18	e.43	---	e.76	---	.25	---	.14	.11	---
TOTAL	6.15	5.11	5.84	7.16	28.00	42.69	17.43	11.91	5.96	3.13	6.00	2.47
MEAN	.20	.17	.19	.23	.97	1.38	.58	.38	.20	.10	.19	.082
MAX	.29	.30	.23	.43	1.9	2.1	.90	.44	.29	.14	.28	.12
MIN	.12	.10	.16	.12	.39	.76	.44	.25	.10	.07	.11	.06
AC-FT	12	10	12	14	56	85	35	24	12	6.2	12	4.9

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

MEAN	.20	.17	.19	.23	.97	1.38	.45	.72	.42	.23	.24	.18
MAX	.20	.17	.19	.23	.97	1.38	.58	1.06	.64	.37	.28	.27
(WY)	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991
MIN	.20	.17	.19	.23	.97	1.38	.32	.38	.20	.10	.19	.082
(WY)	1992	1992	1992	1992	1992	1992	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	141.85		
ANNUAL MEAN	.39		
HIGHEST ANNUAL MEAN		.39	1992
LOWEST ANNUAL MEAN		.39	1992
HIGHEST DAILY MEAN	2.1	Mar 6	May 23 1991
LOWEST DAILY MEAN	.06	Sep 20	Sep 20 1992
ANNUAL SEVEN-DAY MINIMUM	.07	Sep 5	Sep 5 1992
INSTANTANEOUS PEAK FLOW	2.3	Mar 6	May 23 1991
INSTANTANEOUS PEAK STAGE	.69	Mar 6	May 23 1991
ANNUAL RUNOFF (AC-FT)	281		281
10 PERCENT EXCEEDS	.87		.84
50 PERCENT EXCEEDS	.22		.28
90 PERCENT EXCEEDS	.09		.10

HUMBOLDT RIVER BASIN

10321860 JACK CREEK BELOW INDIAN CREEK NEAR CARLIN, NV--Continued

197

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1990, July 1991 to current year.

REMARKS.--In August 1990, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	
NOV 01...	0800	0.13	399	8.5	2.0	2.0	1.4	12.8	114	400	200	
DATE		CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 01...	45	22	11	0.3	3.1	153	2	128	67	6.0	0.20	
DATE		SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	
NOV 01...	21	252	254	0.34	0.010	0.120	0.010	<0.20	0.120	30		
DATE		ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	
NOV 01...	3	60	<0.5	<1.0	1	<3	<1	41	<1	9		
DATE		MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	
NOV 01...	9	<0.1	<10	<1	2	<1.0	130	<6	8	<0.010		

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.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,085 ft above sea level, from topographic map. Prior to June 2, 1992, at datum 1.00 ft higher.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 40 ft³/s, March 26, gage height, 2.39 ft; no flow many days, October, July to September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	e1.5	e1.5	e1.6	e5.1	9.1	10	5.6	1.2	e.12	.00	.00
2	.00	1.7	e1.6	e1.7	e4.8	9.1	9.0	4.6	.91	e.06	.00	.00
3	.04	1.6	e1.7	e1.6	e3.9	10	9.3	4.1	.76	e.03	.00	.00
4	.36	1.6	e2.3	e1.7	e4.2	13	9.4	3.7	.76	e.02	.00	.00
5	.02	1.5	e2.6	e1.8	e4.5	12	9.9	3.3	.69	e.02	.00	.00
6	.06	1.5	e5.2	e1.9	e4.5	12	10	3.1	.72	e.01	.00	.00
7	.03	1.5	e4.8	e1.6	e4.4	13	10	2.9	.82	e.00	.00	.00
8	.00	1.4	e3.4	e1.5	e4.5	13	10	2.8	.83	.00	.00	.00
9	.07	1.6	e1.9	e1.5	e5.0	12	10	2.8	.65	.00	.00	.00
10	.24	1.4	e2.0	e1.9	e4.8	11	10	2.7	e.50	.00	.00	.00
11	.43	1.6	e1.8	e1.9	e4.9	11	10	2.6	e.33	.00	.00	.00
12	.59	1.6	e1.5	e1.8	e4.7	11	11	2.4	e.23	.00	.00	.00
13	.59	1.7	e1.6	e2.2	e5.2	11	11	2.4	e.17	.00	.00	.00
14	.84	2.2	e1.8	e2.3	e5.1	10	12	2.4	e.10	.00	.00	.00
15	1.1	2.2	e1.9	e2.7	e4.7	10	13	2.2	e.07	.00	.00	.00
16	1.2	e2.2	e1.8	e4.0	e3.9	11	14	2.0	e.05	.00	.00	.00
17	.81	2.2	e1.8	e3.2	e3.9	11	14	1.8	e.10	.00	.00	.00
18	.80	2.4	e2.2	e3.1	e4.3	11	14	1.8	e.26	.00	.00	.00
19	1.1	e2.3	e1.6	e3.0	e4.6	11	13	1.8	e.40	.00	.00	.00
20	1.3	e1.8	e1.3	e3.1	e5.3	11	13	1.9	e.50	.00	.00	.00
21	1.4	1.6	e1.3	e3.2	e5.2	10	12	2.0	e.39	.00	.00	.00
22	1.4	e3.0	e1.4	e3.5	e5.0	11	13	1.9	e.30	.00	.00	.00
23	1.6	e3.7	e1.5	e3.4	e4.8	11	12	1.9	e.26	.00	.00	.00
24	2.0	e3.3	e1.4	e4.1	e5.3	10	12	1.8	e.22	.00	.00	.00
25	2.3	5.2	e1.6	e4.3	e5.7	10	12	1.9	e.18	.00	.00	.00
26	3.6	5.0	e1.6	e3.8	e7.0	15	11	1.9	e.16	.00	.00	.00
27	1.7	6.0	e2.0	e4.2	e8.0	12	10	1.8	e.09	.00	.00	.00
28	1.3	e3.0	e1.8	e4.0	8.6	11	9.6	1.8	e.30	.00	.00	.00
29	e1.4	e2.5	e1.7	e3.9	9.2	10	8.3	1.7	e.17	.00	.00	.00
30	e1.3	e2.0	e1.7	e4.7	---	11	6.6	1.6	e.14	.00	.00	.00
31	e1.2	---	e1.7	e5.2	---	11	---	1.4	---	.00	.00	---
TOTAL	28.78	70.8	62.0	88.4	151.1	344.2	329.1	76.6	12.26	0.26	0.00	0.00
MEAN	.93	2.36	2.00	2.85	5.21	11.1	11.0	2.47	.41	.008	.000	.000
MAX	3.6	6.0	5.2	5.2	9.2	15	14	5.6	1.2	.12	.00	.00
MIN	.00	1.4	1.3	1.5	3.9	9.1	6.6	1.4	.05	.00	.00	.00
AC-FT	57	140	123	175	300	683	653	152	24	.5	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	4.90	6.59	5.92	6.20	11.6	16.0	13.4	11.9	7.76	1.40	.88	1.09
MAX	8.09	9.16	8.38	8.14	15.1	26.5	22.2	17.1	13.5	3.86	2.63	3.21	
(WY)	1990	1990	1991	1991	1990	1990	1990	1991	1990	1990	1990	1990	
MIN	.93	2.36	2.00	2.85	5.21	10.3	7.04	2.47	.41	.008	.000	.000	
(WY)	1992	1992	1992	1992	1992	1991	1991	1992	1992	1992	1991	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1989 - 1992

ANNUAL TOTAL	2180.11	1163.50	
ANNUAL MEAN	5.97	3.18	7.27
HIGHEST ANNUAL MEAN			11.3
LOWEST ANNUAL MEAN			3.18
HIGHEST DAILY MEAN	24	15	50
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		40	160
INSTANTANEOUS PEAK STAGE		2.39	3.20
ANNUAL RUNOFF (AC-FT)	4320	2310	5270
10 PERCENT EXCEEDS	16	11	17
50 PERCENT EXCEEDS	4.8	1.7	6.8
90 PERCENT EXCEEDS	.00	.00	.00

HUMBOLDT RIVER BASIN

199

10321950 MAGGIE CREEK AT MAGGIE CREEK CANYON NEAR CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1990, October 1991.

REMARKS.--In August 1990, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	
OCT 31...	0945	0.43	558	8.3	-3.0	0.5	2.4	11.8	98	200	
DATE	TIME	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD (MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 31...	52	18	42	1	11	249	204	57	19	0.40	
DATE	TIME	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)
OCT 31...	48	372	371	0.51	<0.010	0.130	0.020	0.60	0.190	<10	
DATE	TIME	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)
OCT 31...	9	95	<0.5	<1.0	<1	<3	<1	11	<1	30	
DATE	TIME	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 31...	6	<0.1	<10	2	<1	<1.0	260	6	<3	<0.010	

HUMBOLDT RIVER BASIN

10321970 MAGGIE CREEK NEAR CARLIN, NV

LOCATION.--Lat 40°45'34", long 116°07'42", in NW 1/4 SE 1/4 sec.9, T.33 N., R.52 E., Eureka County, Hydrologic Unit 16040101, on right bank, approximately 3 mi northwest of Carlin.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--December 1989 to May 1992 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 5,000 ft above sea level, from topographic map.

REMARKS.--Records poor. No flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, during period October 1991 to May 1992, 36 ft³/s, sometime between March 1-11, gage height, 1.70 ft, from floodmarks; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	e1.7	e6.0	7.4	.93	---	---	---	---
2	.00	.00	.00	.00	e1.6	e7.0	6.4	.48	---	---	---	---
3	.00	.00	.00	.00	e1.5	e8.0	6.5	.28	---	---	---	---
4	.00	.00	e.01	.00	e1.6	e9.0	6.4	.05	---	---	---	---
5	.00	.00	e.10	.00	e1.7	e9.0	6.6	.00	---	---	---	---
6	.00	.00	e1.0	.00	e1.8	e9.0	6.6	.00	---	---	---	---
7	.00	.00	e2.4	.00	e2.1	e10	6.7	.00	---	---	---	---
8	.00	.00	e.26	.00	e2.3	e10	6.5	.00	---	---	---	---
9	.00	.00	e.02	.00	e2.4	e9.0	5.9	.00	---	---	---	---
10	.00	.00	.00	.00	e2.5	e8.0	5.7	.00	---	---	---	---
11	.00	.00	.00	.00	e2.6	e8.0	5.7	.00	---	---	---	---
12	.00	.00	.00	.00	e2.5	8.2	5.6	.00	---	---	---	---
13	.00	.00	.00	.00	e3.1	8.8	5.7	.00	---	---	---	---
14	.00	.00	.00	.00	e3.0	8.9	5.8	.00	---	---	---	---
15	.00	.00	.00	.00	e2.8	9.1	e6.0	.00	---	---	---	---
16	.00	.00	.00	e.01	e2.7	9.6	e6.5	.00	---	---	---	---
17	.00	.00	.00	e.20	e2.7	11	e7.0	.00	---	---	---	---
18	.00	.00	.00	e.60	e3.3	11	e8.0	.00	---	---	---	---
19	.00	.00	.00	e.57	e3.4	10	e10	.00	---	---	---	---
20	.00	.00	.00	e.50	e3.5	9.7	e8.0	.00	---	---	---	---
21	.00	.00	.00	e.48	e3.4	9.0	e7.5	.00	---	---	---	---
22	.00	.00	.00	e.70	e3.3	9.1	e7.8	---	---	---	---	---
23	.00	.00	.00	e.90	e3.2	9.1	e8.0	---	---	---	---	---
24	.00	.00	.00	e1.2	e3.4	8.6	e7.6	---	---	---	---	---
25	.00	.00	.00	e1.3	e4.0	8.6	e7.0	---	---	---	---	---
26	.00	.00	.00	e1.2	e4.6	11	e6.2	---	---	---	---	---
27	.00	.00	.00	e1.3	e5.0	e10	e5.7	---	---	---	---	---
28	.00	.00	.00	e1.2	e5.8	9.0	4.9	---	---	---	---	---
29	.00	.00	.00	e1.5	e6.4	8.6	4.2	---	---	---	---	---
30	.00	.00	.00	e1.6	---	8.5	2.3	---	---	---	---	---
31	.00	---	.00	e1.8	---	8.1	---	---	---	---	---	---
TOTAL	0.00	0.00	3.79	15.06	87.9	278.9	194.2	---	---	---	---	---
MEAN	.000	.000	.12	.49	3.03	9.00	6.47	---	---	---	---	---
MAX	.00	.00	2.4	1.8	6.4	11	10	---	---	---	---	---
MIN	.00	.00	.00	.00	1.5	6.0	2.3	---	---	---	---	---
AC-FT	.00	.00	7.5	30	174	553	385	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	.000	.12	1.14	1.33	4.81	11.4	8.53	9.59	4.34	.16	.000	.000
MAX	.000	.24	2.08	2.20	8.90	21.2	17.2	11.8	4.59	.31	.000	.000
(WY)	1991	1991	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990
MIN	.000	.000	.12	.49	2.57	4.01	1.87	7.41	4.09	.000	.000	.000
(WY)	1991	1992	1992	1992	1991	1991	1991	1991	1991	1991	1990	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	648.78		
ANNUAL MEAN	1.78		
HIGHEST ANNUAL MEAN		1.89	
LOWEST ANNUAL MEAN		1.89	1991
HIGHEST DAILY MEAN	14	57	Feb 27 1990
LOWEST DAILY MEAN	.00	.00	Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	.00	.00	Jul 11 1990
INSTANTANEOUS PEAK FLOW		160	Mar 7 1990
INSTANTANEOUS PEAK STAGE		4.00	Mar 7 1990
ANNUAL RUNOFF (AC-FT)	1290	1370	
10 PERCENT EXCEEDS	4.3	12	
50 PERCENT EXCEEDS	.00	1.3	
90 PERCENT EXCEEDS	.00	.00	

HUMBOLDT RIVER BASIN

201

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.--400.0 mi².

PERIOD OF RECORD.--July 1913 to December 1921, April to May 1922, April 1923 to September 1924, April to September 1992.

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 poor. No flow has occurred during summer months many years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge 2,440 ft³/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 during period April to September, 0.18 ft³/s, May 9, 1992, gage height 1.36 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.12	.09	.05	.00	.00
2	---	---	---	---	---	---	---	.12	.09	.04	.00	.00
3	---	---	---	---	---	---	---	.12	.09	.04	.00	.00
4	---	---	---	---	---	---	---	.11	.08	.03	.00	.00
5	---	---	---	---	---	---	---	.11	.08	.02	.00	.00
6	---	---	---	---	---	---	---	.11	.09	.00	.00	.00
7	---	---	---	---	---	---	---	.13	.09	.00	.00	.00
8	---	---	---	---	---	---	---	.14	.09	.00	.00	.00
9	---	---	---	---	---	---	---	.13	.08	.00	.00	.00
10	---	---	---	---	---	---	---	.15	.08	.00	.00	.00
11	---	---	---	---	---	---	---	.14	.07	.00	.00	.00
12	---	---	---	---	---	---	---	.14	.06	.00	.00	.00
13	---	---	---	---	---	---	---	.14	.07	.00	.00	.00
14	---	---	---	---	---	---	---	.14	.10	.00	.00	.00
15	---	---	---	---	---	---	---	.14	.08	.00	.00	.00
16	---	---	---	---	---	---	---	.14	.07	.00	.00	.00
17	---	---	---	---	---	---	---	.14	.07	.00	.00	.00
18	---	---	---	---	---	---	---	.12	.07	.00	.00	.00
19	---	---	---	---	---	---	---	.12	.06	.00	.00	.00
20	---	---	---	---	---	---	---	.12	.05	.00	.00	.00
21	---	---	---	---	---	---	---	.12	.05	.00	.00	.00
22	---	---	---	---	---	---	---	.13	.05	.00	.00	.00
23	---	---	---	---	---	---	---	.12	.04	.00	.00	.00
24	---	---	---	---	---	---	---	.12	.04	.00	.00	.00
25	---	---	---	---	---	---	---	.12	.05	.00	.00	.00
26	---	---	---	---	---	---	---	.11	.05	.00	.00	e.00
27	---	---	---	---	---	---	---	.11	.05	.00	.00	e.00
28	---	---	---	---	---	---	.10	.10	.03	.00	.00	e.00
29	---	---	---	---	---	---	.10	.10	.05	.00	.00	.00
30	---	---	---	---	---	---	.12	.09	.06	.00	.00	.00
31	---	---	---	---	---	---	---	.09	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	3.79	2.03	0.18	0.00	0.00
MEAN	---	---	---	---	---	---	---	.12	.068	.006	.000	.000
MAX	---	---	---	---	---	---	---	.15	.10	.05	.00	.00
MIN	---	---	---	---	---	---	---	.09	.03	.00	.00	.00
AC-FT	---	---	---	---	---	---	---	7.5	4.0	.4	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

	4.26	4.44	3.47	5.40	21.0	55.8	101	90.0	17.8	3.17	1.90	1.26
MEAN	4.26	4.44	3.47	5.40	21.0	55.8	101	90.0	17.8	3.17	1.90	1.26
MAX	12.5	6.99	10.5	27.5	66.9	196	223	422	67.4	12.0	6.24	5.38
(WY)	1917	1914	1922	1914	1921	1921	1922	1922	1917	1916	1918	1913
MIN	.39	1.13	1.00	.000	3.79	8.94	16.1	.12	.068	.006	.000	.000
(WY)	1921	1919	1924	1924	1919	1924	1915	1992	1992	1992	1919	1919

SUMMARY STATISTICS

WATER YEARS 1913 - 1992

ANNUAL MEAN	23.2
HIGHEST ANNUAL MEAN	46.6
LOWEST ANNUAL MEAN	4.06
HIGHEST DAILY MEAN	750
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	800
INSTANTANEOUS PEAK STAGE	4.30
ANNUAL RUNOFF (AC-FT)	16820
10 PERCENT EXCEEDS	80
50 PERCENT EXCEEDS	4.0
90 PERCENT EXCEEDS	.07

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.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,930 ft above sea level, from topographic map. Prior to June 3, 1992 at datum 2.0 ft higher. Instantaneous peak flow for period of record occurred sometime between February 25, 1990 to March 15, 1990.

REMARKS.--No estimated daily discharges. Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.9 ft³/s, February 20, gage height, 2.86 ft; minimum daily, 1.4 ft³/s, May 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.5	3.4	3.5	2.8	3.3	3.1	2.4	1.8	2.1	2.3	2.4
2	2.3	3.4	3.3	3.5	2.7	3.1	3.0	2.4	1.8	2.1	2.3	2.4
3	2.3	3.4	3.3	3.4	2.8	3.4	3.0	2.2	1.8	2.1	2.2	2.5
4	2.3	3.5	3.4	3.3	2.8	3.5	2.9	2.2	1.9	2.1	2.2	2.5
5	2.4	3.5	3.4	3.3	2.8	3.4	2.7	2.2	1.9	2.1	2.2	2.5
6	2.3	3.5	3.5	3.3	2.7	3.4	2.8	2.1	1.9	2.1	2.3	2.6
7	2.4	3.4	3.5	3.3	2.7	3.3	2.8	2.0	2.0	2.1	2.2	2.5
8	2.3	3.3	3.5	3.2	2.8	3.2	2.7	2.0	2.1	2.1	2.3	2.6
9	2.4	3.5	3.8	3.3	2.8	3.2	2.7	2.0	2.1	2.2	2.3	2.7
10	2.4	3.6	3.7	3.2	2.8	3.2	2.8	1.8	2.1	2.2	2.2	2.7
11	2.5	3.7	3.7	3.2	2.8	3.2	2.8	1.7	2.1	2.1	2.2	2.7
12	2.6	3.6	3.6	3.1	2.8	3.1	2.8	1.9	2.1	2.1	2.1	2.6
13	2.5	3.6	3.7	3.0	2.7	3.1	2.7	1.9	2.1	2.1	2.1	2.7
14	2.5	3.5	3.7	3.0	2.8	3.0	2.8	1.9	2.1	2.1	2.1	2.7
15	2.7	3.5	3.7	3.0	2.7	3.2	2.7	1.9	2.1	2.3	2.2	2.7
16	2.8	3.5	3.7	3.0	2.7	3.5	2.6	2.5	2.1	2.3	2.5	2.7
17	2.8	3.5	3.7	3.0	2.7	3.4	2.6	1.9	2.1	2.3	2.5	2.6
18	2.8	3.6	3.7	2.9	2.7	3.4	2.6	1.4	2.1	2.3	2.6	2.7
19	3.0	3.5	3.7	2.9	2.6	3.4	2.5	1.7	2.1	2.3	2.6	2.7
20	3.1	3.6	3.7	2.7	3.7	3.4	2.5	1.6	2.1	2.3	2.5	2.6
21	3.0	3.5	3.8	2.7	3.6	3.4	2.5	1.7	2.1	2.3	2.4	2.6
22	3.1	3.4	3.6	2.8	4.2	3.4	2.5	1.7	2.1	2.3	2.4	2.6
23	3.1	3.4	3.7	2.9	3.6	3.5	2.5	1.7	2.1	2.3	2.4	2.6
24	3.1	3.3	3.7	2.9	3.6	3.3	2.5	1.7	2.1	2.3	2.4	2.7
25	3.2	3.3	3.5	2.9	3.5	3.2	2.4	1.7	2.1	2.3	2.4	2.7
26	3.3	3.3	3.5	2.9	3.4	3.2	2.5	1.8	2.1	2.3	2.4	2.7
27	3.3	3.4	3.4	3.0	3.4	3.1	2.3	1.8	2.1	2.4	2.4	2.7
28	3.3	3.5	3.5	3.1	3.3	3.1	2.3	1.8	2.1	2.4	2.4	2.6
29	3.4	3.5	3.5	3.0	3.3	3.1	2.3	1.8	2.1	2.3	2.4	2.6
30	3.5	3.4	3.6	2.9	---	3.2	2.4	1.8	2.1	2.4	2.5	2.6
31	3.5	---	3.6	2.8	---	3.2	---	1.8	---	2.3	2.4	---
TOTAL	86.4	104.2	111.1	95.0	87.8	101.4	79.3	59.0	61.4	69.0	72.4	78.5
MEAN	2.79	3.47	3.58	3.06	3.03	3.27	2.64	1.90	2.05	2.23	2.34	2.62
MAX	3.5	3.7	3.8	3.5	4.2	3.5	3.1	2.5	2.1	2.4	2.6	2.7
MIN	2.2	3.3	3.3	2.7	2.6	3.0	2.3	1.4	1.8	2.1	2.1	2.4
AC-FT	171	207	220	188	174	201	157	117	122	137	144	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	2.71	3.76	3.46	3.60	3.98	5.11	3.47	2.33	2.16	2.21	2.68	2.51
MAX	2.79	4.05	3.95	4.28	5.96	6.34	4.21	2.65	3.08	2.80	2.95	2.62
(WY)	1992	1991	1990	1990	1990	1990	1991	1990	1990	1990	1991	1992
MIN	2.63	3.47	2.85	3.06	2.98	3.27	2.64	1.90	1.36	1.60	2.34	2.42
(WY)	1991	1992	1991	1992	1991	1992	1992	1992	1991	1991	1992	1991

SUMMARY STATISTICS

	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	1125.34	1005.5	
ANNUAL MEAN	3.08	2.75	2.90
HIGHEST ANNUAL MEAN			3.05
LOWEST ANNUAL MEAN			2.75
HIGHEST DAILY MEAN	11 Mar 29	4.2 Feb 22	24 Feb 28 1990
LOWEST DAILY MEAN	.60 Aug 27	1.4 May 18	.60 Aug 27 1991
ANNUAL SEVEN-DAY MINIMUM	.78 Jun 15	1.6 May 18	.78 Jun 15 1991
INSTANTANEOUS PEAK FLOW		7.9 Feb 20	24 Feb 25 1990
INSTANTANEOUS PEAK STAGE		2.86 Feb 20	2.78 Feb 25 1990
ANNUAL RUNOFF (AC-FT)	2230	1990	2100
10 PERCENT EXCEEDS	4.5	3.5	4.3
50 PERCENT EXCEEDS	3.0	2.7	3.0
90 PERCENT EXCEEDS	1.3	2.1	1.8

HUMBOLDT RIVER BASIN

203

10322150 MARYS CREEK AT CARLIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1990, July 1991 to current year.

REMARKS.--In August 1990, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
OCT 31...	1245	3.6	471	8.3	6.5	12.0	3.5	9.7	107	170	50
DATE	TIME	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)
OCT 31...	12	29	1	9.3	205	1	170	38	12	0.20	
DATE	TIME	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)
OCT 31...	52	315	307	0.43	0.010	0.420	0.020	<0.20	0.070	<10	
DATE	TIME	ARSENIC, DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)
OCT 31...	8	120	<0.5	<1.0	<1	<3	<1	15	<1	42	
DATE	TIME	MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 31...	35	<0.1	<10	<1	2	<1.0	290	9	10	<0.010	

HUMBOLDT RIVER BASIN

10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'25", long 116°12'05", 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, and 0.8 mi upstream from Pine Creek.

DRAINAGE AREA.--5,010 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1902 to October 1906, and July 1911 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914.

GAGE.--Water-stage recorder. Datum of gage is 4,825.55 ft above sea level. 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 good except for estimated daily discharges, which are fair. Diversion for irrigation of 148,000 acres of hay and pastureland above station.

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 ft³/s, from rating curve extended above 7,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 361 ft³/s, March 7, gage height, 2.67 ft; minimum daily, 12 ft³/s, July 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	47	64	73	80	207	182	162	108	29	14	21
2	24	50	e72	68	80	203	177	166	100	28	14	21
3	23	51	e78	68	80	211	170	150	71	29	16	23
4	25	51	80	e75	83	258	152	144	65	27	15	25
5	28	54	80	e78	82	293	154	151	63	25	15	24
6	29	52	83	e74	87	337	158	153	63	23	15	23
7	30	54	88	e71	88	353	160	167	62	22	15	23
8	30	54	92	e68	93	328	159	195	62	21	14	23
9	30	59	79	e68	96	311	161	221	59	19	14	23
10	31	61	70	e69	98	291	162	237	57	18	13	23
11	31	59	73	e70	103	264	170	237	53	17	13	22
12	32	58	80	e70	108	233	171	262	46	17	13	21
13	32	60	88	e68	114	222	172	243	45	17	13	21
14	31	65	79	e68	129	214	181	239	47	16	13	22
15	32	65	73	e69	138	207	189	252	47	15	14	22
16	33	62	75	73	138	205	168	248	44	e14	15	22
17	34	67	77	77	139	205	165	248	40	e13	15	21
18	34	77	88	73	142	203	150	246	39	13	14	22
19	34	76	e80	70	145	199	139	242	37	12	14	22
20	34	77	74	74	150	195	130	234	37	12	13	23
21	35	78	e70	71	189	195	119	225	35	12	13	23
22	35	78	e74	74	200	194	117	201	34	13	13	23
23	35	78	80	72	231	196	117	159	32	13	13	22
24	36	80	79	78	238	195	113	155	29	14	14	21
25	36	81	76	77	242	195	105	148	29	15	15	22
26	42	81	73	74	237	199	97	130	29	15	15	22
27	49	84	76	72	226	201	104	128	28	15	17	23
28	44	e82	78	76	219	196	130	123	29	17	18	23
29	45	e80	76	74	211	195	161	111	28	16	20	24
30	48	78	81	73	---	195	156	110	29	15	21	24
31	45	---	81	75	---	193	---	109	---	14	21	---
TOTAL	1051	1999	2417	2240	4166	7093	4489	5796	1447	546	462	674
MEAN	33.9	66.6	78.0	72.3	144	229	150	187	48.2	17.6	14.9	22.5
MAX	49	84	92	78	242	353	189	262	108	29	21	25
MIN	23	47	64	68	80	193	97	109	28	12	13	21
AC-FT	2080	3970	4790	4440	8260	14070	8900	11500	2870	1080	916	1340

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1992, BY WATER YEAR (WY)

	MEAN	58.6	88.5	106	142	288	576	865	999	1166	336	58.9	35.6
MAX	369	411	720	561	1779	2949	4222	5719	4635	1960	571	199	
(WY)	1983	1984	1984	1914	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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1903 - 1992

ANNUAL TOTAL	55211	32380	
ANNUAL MEAN	151	88.5	392
HIGHEST ANNUAL MEAN			1846
LOWEST ANNUAL MEAN			34.8
HIGHEST DAILY MEAN	1080	353	7820
LOWEST DAILY MEAN	22	12	2.0
ANNUAL SEVEN-DAY MINIMUM	22	13	2.4
INSTANTANEOUS PEAK FLOW		361	7870
INSTANTANEOUS PEAK STAGE		2.67	10.08
ANNUAL RUNOFF (AC-FT)	109500	64230	284300
10 PERCENT EXCEEDS	345	204	1150
50 PERCENT EXCEEDS	79	71	120
90 PERCENT EXCEEDS	26	15	23

HUMBOLDT RIVER BASIN

205

10322500 HUMBOLDT RIVER AT PALISADE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-65, 1977-84, 1990 to current year.

REMARKS.--In August 1990, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, OCTOBER 1991 to SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	
OCT 31...	1250	44	517	8.5	3.5	4.5	5.8	10.8	99	160	48	
DATE	TIME	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
OCT 31...	10	40	1	7.3	233	7	203	43	20	0.50	20	
DATE	TIME	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORTHO DIS-SOLVED (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 31...	287	311	0.39	<0.010	<0.050	0.020	<0.20	<0.010	10	100	<3	
DATE	TIME	IRON, DIS-SOLVED (UG/L AS FE)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	CYANIDE TOTAL (MG/L AS CN)	
OCT 31...	10	43	10	<10	<1	<1	<1.0	470	<6	<0.010		
DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SEDIMENT, DIS-CHARGE, SUS-PENDED (MG/L)	SEDIMENT, DIS-CHARGE, SUS-PENDED (T/DAY)								
MAY 29...	1110	114	16	4.9								

HUMBOLDT RIVER BASIN

10323425 HUMBOLDT RIVER AT OLD US 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.

DRAINAGE AREA.--7,470 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,630 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood February 12, 1962, maximum discharge 7,620 ft³/s, computed by slope-area and culvert computations at peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 399 ft³/s, February 13, from rating curve extended above 234 ft³/s, gage height, 4.09 ft; minimum daily, 1.6 ft³/s, August 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.5	21	e38	e55	e80	244	190	143	90	16	3.1	e2.5
2	e7.0	34	61	e55	e90	229	182	150	86	14	3.4	3.0
3	e4.0	e29	e56	e60	e90	233	181	145	87	12	3.6	3.1
4	e5.0	40	e60	e70	e100	244	184	130	64	9.9	3.7	e3.0
5	e6.2	43	e70	e75	e100	273	181	117	55	11	3.6	e2.7
6	e6.8	43	81	e68	e120	323	201	121	48	11	e2.5	e2.5
7	6.9	e35	81	e60	e128	350	200	121	44	12	3.9	e2.5
8	7.1	e35	79	e55	135	357	173	134	39	12	3.2	e2.5
9	6.8	e42	e73	e52	e140	328	159	174	37	11	4.6	e2.5
10	e6.5	e43	81	e58	147	297	153	202	36	9.8	e2.2	e2.5
11	e7.0	e42	e70	e60	e150	273	158	207	34	8.7	2.2	e2.3
12	e7.0	e40	e80	e60	151	240	161	214	43	9.0	2.0	e2.2
13	e7.0	e45	e80	e54	e165	213	172	236	43	9.1	1.6	e2.2
14	e6.5	e50	e68	e60	e182	191	190	209	60	7.5	1.9	e2.2
15	e7.2	58	e66	e56	e182	194	198	209	52	5.7	3.3	e2.5
16	e7.9	e46	e78	e52	e170	218	195	207	45	6.3	4.5	e2.5
17	e8.0	e50	e80	e70	e168	216	172	188	36	6.0	2.8	e2.5
18	e8.0	72	e95	e65	e167	203	192	194	29	5.5	2.2	e2.1
19	e8.0	74	e88	e60	e165	205	183	204	27	5.6	1.9	e2.1
20	e7.8	75	e50	e57	e170	190	160	198	22	6.1	1.8	e2.2
21	e7.0	79	e55	e57	e174	192	142	173	19	6.1	1.9	e2.2
22	8.4	84	e60	e58	e176	200	142	169	15	6.4	2.3	e2.2
23	8.5	84	e60	e60	e191	205	139	156	15	6.0	3.5	e2.1
24	e7.0	90	e60	e70	e228	199	126	128	14	6.2	3.9	e2.0
25	10	89	e57	e79	e234	194	110	129	16	e4.9	3.9	e2.2
26	e9.8	91	e57	e70	271	197	93	129	16	5.5	4.0	e2.7
27	13	96	e68	e70	255	198	86	124	13	4.8	3.2	e2.7
28	15	e70	e68	e77	245	200	86	109	11	4.6	2.7	e3.0
29	16	e60	e64	e58	238	194	101	108	13	3.7	e2.4	e3.0
30	15	e50	e60	e60	---	194	132	96	16	4.3	e2.4	e3.0
31	16	---	e60	e80	---	199	---	92	---	3.3	e2.5	---
TOTAL	263.9	1710	2104	1941	4812	7193	4742	4916	1125	244.0	90.7	74.7
MEAN	8.51	57.0	67.9	62.6	166	232	158	159	37.5	7.87	2.93	2.49
MAX	16	96	95	80	271	357	201	236	90	16	4.6	3.1
MIN	4.0	21	38	52	80	190	86	92	11	3.3	1.6	2.0
AC-FT	523	3390	4170	3850	9540	14270	9410	9750	2230	484	180	148

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991
MEAN	8.51	57.0	67.9	62.6	166	232	153	187	331	91.4	6.28	6.11
MAX	8.51	57.0	67.9	62.6	166	232	158	215	624	175	9.63	9.73
(WY)	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991
MIN	8.51	57.0	67.9	62.6	166	163	148	159	37.5	7.87	2.93	2.49
(WY)	1992	1992	1992	1992	1992	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	29216.3	
ANNUAL MEAN	79.8	79.8
HIGHEST ANNUAL MEAN		79.8
LOWEST ANNUAL MEAN		79.8
HIGHEST DAILY MEAN	357	Mar 8
LOWEST DAILY MEAN	1.6	Aug 13
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 18
INSTANTANEOUS PEAK FLOW	399	Feb 13
INSTANTANEOUS PEAK STAGE	4.09	Feb 13
ANNUAL RUNOFF (AC-FT)	57950	57830
10 PERCENT EXCEEDS	199	253
50 PERCENT EXCEEDS	58	80
90 PERCENT EXCEEDS	2.7	3.9

HUMBOLDT RIVER BASIN

10323425 HUMBOLDT RIVER AT OLD US HIGHWAY 40 BRIDGE, AT DUNPHY, NV--Continued

207

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1991 to current year.

REMARKS.--In July 1991, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, (PERCENT SATURATION)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
OCT 29...	1000	17	566	8.3	3.5	4.0	2.3	10.4	94	180	48
JUL 07...	1350	8.3	643	8.5	29.0	25.0	0.60	9.4	135	170	46
DATE		MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM, AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER DIS-IT FIELD (MG/L AS HCO3)	CARBONATE WATER DIS-IT FIELD (MG/L AS CO3)	ALKALINITY WAT DIS-TOT IT (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)
OCT 29...	14	56	2	8.6	253	3	213	40	23	0.30	
JUL 07...	13	70	2	10	245	7	213	64	45	0.60	
DATE		SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (MG/L AS AL)
OCT 29...	26	330	344	0.45	<0.010	0.120	0.010	<0.20	0.010	<10	
JUL 07...	28	374	405	0.51	<0.010	<0.050	<0.010	<0.20	<0.010	10	
DATE		ARSENIC, DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYLLIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM, DIS-SOLVED (UG/L AS CD)	CHROMIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM, DIS-SOLVED (UG/L AS LI)
OCT 29...	9	100	0.7	<1.0	<1	<3	<1	4	<1	61	
JUL 07...	--	91	--	--	--	<3	--	5	--	63	
DATE		MANGANESE, DIS-SOLVED (UG/L AS MN)	MERCURY, DIS-SOLVED (UG/L AS HG)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELENIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRONTIUM, DIS-SOLVED (UG/L AS SR)	VANADIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
OCT 29...	11	<0.1	<10	<1	<1	<1.0	410	<6	<3	<0.010	
JUL 07...	14	--	<10	1	<1	<1.0	380	<6	--	<0.010	
DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SEDIMENT, DIS-CHARGE, SUSPENDED (MG/L)	SEDIMENT, DIS-CHARGE, SUSPENDED (T/DAY)							
MAY 29...	1324	99	15	4.0							

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30", long 116°34'45", in SW 1/4 SE 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.--875 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to July 1896, March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P).

GAGE.--Water-stage recorder. Elevation of gage is 4,600 ft above sea level, 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 of 4,380 acres, in valleys upstream. Station is above all diversions in Boulder Flat and below tributaries. Flow slightly affected by small reservoir in Squaw Valley, 30 mi upstream, and by Willow Creek Reservoir, usable capacity, 18,000 acre-ft. No flow during summer months most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 21	1300	*97	*2.95	No other peak greater than base discharge.			

No flow many days June to Sept.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.61	2.9	e2.7	e2.3	3.2	e19	3.5	1.6	.12	.14	.00	.00
2	.54	3.8	3.4	e2.5	3.6	19	3.4	1.6	.09	.13	.00	.00
3	.48	4.0	3.2	e2.4	5.9	19	3.1	1.5	.04	.12	.00	.00
4	.53	3.7	3.9	3.0	6.2	17	3.1	1.4	.02	.10	.00	.00
5	.53	3.4	3.4	3.6	8.3	17	3.2	1.3	.01	.05	.00	.00
6	.61	3.3	3.4	e3.4	9.8	20	3.1	1.3	.00	.03	.00	.00
7	.97	3.2	6.3	e2.9	5.9	19	2.9	1.2	.00	.02	.00	.00
8	1.2	3.3	e4.2	e1.9	7.0	19	2.9	1.2	.00	.01	.00	.00
9	1.4	4.0	e4.3	e2.1	11	15	2.9	1.1	.00	.00	.00	.00
10	1.3	4.4	e3.9	e2.4	11	14	2.9	1.1	.00	.00	.00	.00
11	1.0	4.5	e3.3	e2.8	17	12	2.9	1.1	.00	.00	.00	.00
12	1.2	4.3	3.3	e3.1	18	11	2.9	1.1	.00	.00	.00	.00
13	1.1	5.0	e3.5	e2.6	18	10	2.9	1.0	.00	.00	.00	.00
14	1.2	5.9	e2.9	e2.8	14	9.7	3.2	.99	.00	.00	.00	.00
15	1.3	5.6	e3.1	e2.7	17	9.4	2.9	.99	.23	.00	.00	.00
16	1.2	4.6	e3.1	e2.5	17	10	2.8	.98	.41	.00	.00	.00
17	.96	4.6	e3.2	e2.5	18	8.7	2.7	.94	.55	.00	.00	.00
18	1.0	8.0	3.3	e2.3	12	7.2	2.4	.76	.83	.00	.00	.00
19	1.2	7.2	e2.7	e2.2	11	6.4	2.5	.70	.88	.00	.00	.00
20	1.2	6.1	e2.1	e2.0	14	5.7	2.4	.62	.70	.00	.00	.00
21	1.2	5.8	e2.3	e2.1	42	5.0	2.3	.59	.47	.00	.00	.00
22	1.2	4.8	2.5	e2.2	44	4.6	2.3	.58	.33	.00	.00	.00
23	1.3	e3.8	2.6	e2.2	27	4.6	2.3	.51	.16	.00	.00	.00
24	1.5	3.8	e2.2	2.3	31	5.0	2.3	.45	.11	.00	.00	.00
25	1.5	4.0	e2.3	2.2	23	5.3	2.1	.39	.07	.00	.00	.00
26	2.3	4.3	e2.5	2.2	20	5.0	2.0	.34	.06	.00	.00	.00
27	3.6	5.1	2.8	e2.2	19	4.6	2.0	.27	.53	.00	.00	.00
28	5.6	6.1	3.1	2.2	19	4.1	1.9	.25	.25	.00	.00	.00
29	5.6	3.6	e2.8	3.2	e19	3.8	1.7	.24	.13	.00	.00	.00
30	4.8	e2.2	e2.6	3.3	---	3.6	1.6	.20	.14	.00	.00	.00
31	3.3	---	e2.4	3.4	---	3.5	---	.14	---	.00	.00	---
TOTAL	51.43	135.3	97.3	79.5	471.9	317.2	79.1	26.44	6.13	0.60	0.00	0.00
MEAN	1.66	4.51	3.14	2.56	16.3	10.2	2.64	.85	.20	.019	.000	.000
MAX	5.6	8.0	6.3	3.6	44	20	3.5	1.6	.88	.14	.00	.00
MIN	.48	2.2	2.1	1.9	3.2	3.5	1.6	.14	.00	.00	.00	.00
AC-FT	102	268	193	158	936	629	157	52	12	1.2	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1992, BY WATER YEAR (WY)

MEAN	2.52	3.94	8.41	16.7	56.5	99.7	153	89.4	29.7	4.16	1.27	1.42
MAX	15.6	18.1	104	140	385	630	1178	725	132	35.6	15.5	17.2
(WY)	1985	1985	1984	1980	1986	1984	1952	1984	1983	1984	1984	1946
MIN	.077	.77	.50	.30	1.00	2.93	1.10	.85	.15	.000	.000	.000
(WY)	1956	1962	1949	1949	1922	1963	1968	1992	1961	1919	1919	1919

HUMBOLDT RIVER BASIN

209

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV--Continued

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1918 - 1992
ANNUAL TOTAL	1863.12	1264.90	
ANNUAL MEAN	5.10	3.46	39.5
HIGHEST ANNUAL MEAN			235 1984
LOWEST ANNUAL MEAN			2.65 1977
HIGHEST DAILY MEAN	61 May 22	44 Feb 22	3510 Feb 10 1962
LOWEST DAILY MEAN	.00 Jul 10	.00 Jun 6	.00 Jul 6 1918
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 10	.00 Jun 6	.00 Jul 14 1918
INSTANTANEOUS PEAK FLOW		97 Feb 21	4800 Feb 11 1962
INSTANTANEOUS PEAK STAGE		2.95 Feb 21	6.89 Feb 11 1962
ANNUAL RUNOFF (AC-FT)	3700	2510	28610
10 PERCENT EXCEEDS	9.2	9.7	99
50 PERCENT EXCEEDS	3.2	2.0	4.0
90 PERCENT EXCEEDS	.00	.00	.00

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, August 1990, November 1992.

REMARKS.--In August 1990, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD PER UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)
NOV 01...	1330	2.6	427	8.4	10.0	4.0	2.6	11.6	105	120	34
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	CAR-BONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV 01...	7.5	48		2	7.6	166	2	139	31	22	0.60
DATE		SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, ORTHO-DIS-SOLVED (MG/L AS N)	PHOS-PHORUS DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (MG/L AS AL)
NOV 01...	26		293	261	0.40	<0.010	0.110	0.020	0.30	<0.010	120
DATE		ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)
NOV 01...	6	60	<0.5	<1.0	<1	<3	<1	130	<1	32	
DATE		MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV 01...	19	<0.1	<10	<1	<1	<1.0	270	<6	15	<0.010	

HUMBOLDT RIVER BASIN

211

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 mi².

PERIOD OF RECORD.--February 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,010 ft above sea level, from topographic map.

REMARKS.--Records poor. No flow most days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9.4 ft³/s, February 20, gage height, 1.32 ft; no flow most days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.00	.00	e.00	e.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00
4	.00	.00	.00	.00	.00	.22	.00	.00	e.00	e.00	.00	.00
5	.00	.00	.00	.00	.00	.20	.00	.00	e.00	e.00	.00	.00
6	.00	.00	.00	.00	.00	.18	.00	.00	e.00	e.00	.00	.00
7	.00	.00	.00	.00	.00	.58	.00	.00	e.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.43	.00	.00	e.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	e.00	.00	.00	.00
20	.00	.00	.00	.00	6.3	.00	.00	.00	e.00	.00	.00	.00
21	.00	.00	.00	.00	5.2	.00	.00	.00	e.00	.00	.00	.00
22	.00	.00	.00	.00	7.3	.00	.00	.00	e.00	.00	.00	.00
23	.00	.00	.00	.00	5.2	.00	.00	e.00	e.00	.00	.00	.00
24	.00	.00	.00	.00	3.3	.00	.00	e.00	e.00	.00	.00	.00
25	.00	.00	.00	.00	1.4	.00	.00	e.00	e.00	.00	.00	.00
26	.00	.00	.00	.00	.50	.00	.00	e.00	e.00	.00	.00	.00
27	.00	.00	.00	.00	.27	.00	.00	e.00	e.00	.00	.00	.00
28	.00	.00	.00	.00	.13	.00	.00	e.00	e.00	.00	.00	.00
29	.00	.00	.00	.00	.06	.00	.00	e.00	e.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	e.00	e.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	e.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	29.66	1.62	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	1.02	.052	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	7.3	.58	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	59	3.2	.00	.00	.00	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	.000	.000	.000	.000	.52	.026	.000	.93	.020	.000	.000	.007
MAX	.000	.000	.000	.000	1.02	.052	.000	1.86	.039	.000	.000	.014
(WY)	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991	1991
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1992	1992	1992	1992	1991	1991	1991	1992	1992	1991	1991	1992

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	31.28	
ANNUAL MEAN	.085	.085
HIGHEST ANNUAL MEAN		.085 1992
LOWEST ANNUAL MEAN		.085 1992
HIGHEST DAILY MEAN	7.3 Feb 22	7.3 Feb 22 1992
LOWEST DAILY MEAN	.00 Oct 1	.00 Feb 1 1991
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1	.00 Feb 1 1991
INSTANTANEOUS PEAK FLOW	9.4 Feb 20	9.4 Feb 20 1992
INSTANTANEOUS PEAK STAGE	1.32 Feb 20	1.32 Feb 20 1992
ANNUAL RUNOFF (AC-FT)	62	62
10 PERCENT EXCEEDS	.00	.00
50 PERCENT EXCEEDS	.00	.00
90 PERCENT EXCEEDS	.00	.00

HUMBOLDT RIVER BASIN

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'00", long 116°55'50", in NE 1/4 NW 1/4 sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, on left bank, 30 ft downstream from bridge on State Highway 18A, and 2 mi north of Battle Mountain. Reese River enters Humboldt River several miles below station.

DRAINAGE AREA.--8,870 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1896 to December 1897, March 1921 to April 1924, October 1945 to September 1981, February 1991 to current year. Monthly discharge only for some periods published in WSP 1314.

REVISED RECORD.--WSP 1564: 1897-98, 1923.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map. 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 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 of 194,000 acres Humboldt Decree.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 294 ft³/s, May 8, gage height, 4.75 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	7.1	e49	e65	e79	201	167	58	71	6.1	.00	.00
2	.00	7.3	64	e65	e75	197	162	62	68	5.7	.00	.00
3	.00	11	64	e64	e75	191	157	67	65	5.4	.00	.00
4	.00	16	e64	e74	e80	189	153	73	59	5.2	.00	.45
5	.00	19	e70	e70	e82	199	150	74	39	4.9	.00	.65
6	.00	22	e73	e65	e89	224	141	61	34	5.7	.00	.00
7	.00	24	e70	e60	e90	259	139	60	30	4.6	.00	.00
8	.00	33	e67	e53	90	288	137	142	22	4.2	.00	.00
9	.00	30	e63	e48	90	292	134	139	16	3.9	.00	.00
10	.00	29	e60	e49	91	283	133	144	14	3.5	.00	.00
11	.00	32	e56	e50	91	266	133	159	13	3.3	.00	.00
12	.00	35	e70	e50	91	252	133	169	13	3.0	.00	.00
13	.00	37	e69	e47	95	227	133	173	13	2.7	.00	.00
14	.00	41	e68	e53	97	213	134	192	13	2.6	.00	.00
15	.00	40	e66	e52	102	205	137	176	13	2.4	.00	.00
16	.00	40	e64	e52	113	199	141	181	12	1.9	.00	.00
17	.00	38	e63	e55	120	198	144	174	12	2.7	.00	.00
18	.00	45	e63	e54	119	194	138	167	12	2.7	.00	.00
19	.00	43	e80	e51	123	190	135	167	12	1.6	.00	.00
20	.00	48	e75	e52	127	186	130	163	11	.94	.00	.00
21	.00	51	e55	e51	133	183	125	159	10	.15	.00	.00
22	.00	52	e57	e53	148	176	120	159	9.7	.00	.00	.00
23	.00	55	e60	e58	168	176	112	148	9.2	.00	.00	.00
24	.00	58	e60	e61	188	180	108	138	8.1	.00	.00	.00
25	.00	59	e57	e70	211	175	104	119	7.4	.00	.00	.00
26	.45	60	e55	e68	218	172	100	111	7.3	.00	.00	.00
27	3.5	64	e75	e64	226	172	88	107	6.9	.00	.00	.00
28	4.0	63	e72	e75	211	172	65	98	6.7	.00	.00	.00
29	5.0	e60	e70	e73	207	171	59	91	6.6	.00	.00	.00
30	6.0	e55	e67	e70	---	169	55	84	6.5	.00	.00	.00
31	5.9	---	e67	e80	---	168	---	76	---	.00	.00	---
TOTAL	24.85	1174.4	2013	1852	3629	6367	3767	3891	620.4	73.19	0.00	1.10
MEAN	.80	39.1	64.9	59.7	125	205	126	126	20.7	2.36	.000	.037
MAX	6.0	64	80	80	226	292	167	192	71	6.1	.00	.65
MIN	.00	7.1	49	47	75	168	55	58	6.5	.00	.00	.00
AC-FT	49	2330	3990	3670	7200	12630	7470	7720	1230	145	.00	2.2

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1992, BY WATER YEAR (WY)

	MEAN	26.6	67.0	102	165	283	469	732	847	1016	334	43.9	14.5
MAX	117	191	297	622	999	1357	3060	3718	3496	1295	243	120	
(WY)	1966	1976	1951	1979	1962	1921	1952	1952	1980	1971	1975	1965	
MIN	.039	.21	3.67	9.58	22.7	102	96.9	50.7	20.7	2.36	.000	.000	
(WY)	1949	1955	1955	1955	1955	1961	1959	1959	1992	1992	1992	1981	

SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1897 - 1992

ANNUAL TOTAL	23412.94		
ANNUAL MEAN	64.0		340
HIGHEST ANNUAL MEAN			889
LOWEST ANNUAL MEAN			54.5
HIGHEST DAILY MEAN	292	Mar 9	5800
LOWEST DAILY MEAN	.00	Oct 1	unknown
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00
INSTANTANEOUS PEAK FLOW	294	Mar 8	5800
INSTANTANEOUS PEAK STAGE	4.75	Mar 8	unknown
ANNUAL RUNOFF (AC-FT)	46440		246100
10 PERCENT EXCEEDS	172		1010
50 PERCENT EXCEEDS	53		120
90 PERCENT EXCEEDS	.00		4.1

HUMBOLDT RIVER BASIN

213

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-81, May 1991 to current year.

REMARKS.--In May 1991, station was incorporated into the Carlin Trend Network.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	DIS- TIME	CHARGE, INST. CUBIC FEET PER SECOND	PH SPE- CIFIC CON- DUCT- ANCE (US/CM)	WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- DIS- SOLVED (PER- CENT SATUR- ATION)	STREP- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 28...	1300	3.7	706	8.4	6.5	6.5	3.5	11.6	111	--	--
DEC 27...	1100	75	605	8.3	7.0	0.0	12	12.6	102	K5	K16
FEB 27...	1130	222	484	8.5	16.0	8.5	83	9.9	100	--	--
APR 30...	1150	56	513	8.5	16.5	17.5	10	8.5	105	--	--
JUL 07...	0941	4.4	813	8.5	20.0	19.0	3.7	9.5	121	--	--
DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT (MG/L AS HCO3)	CAR- BONATE WATER DIS IT (MG/L AS CO3)	ALKA- LINITY WAT DIS TOT IT (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 28...	200	51	17	74	2	7.8	217	4	185	94	57
DEC 27...	210	58	15	58	2	8.4	170	--	139	68	38
FEB 27...	170	48	12	42	1	8.6	218	10	195	40	26
APR 30...	170	48	13	54	2	8.6	232	8	203	50	32
JUL 07...	210	53	18	81	2	9.5	255	3	190	110	86
DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)
OCT 28...	0.50	30	437	443	0.59	<0.010	0.130	0.010	<0.20	<0.010	<10
DEC 27...	0.70	30	425	360	0.58	<0.010	<0.050	<0.010	<0.20	0.010	20
FEB 27...	0.50	26	319	321	0.43	<0.010	<0.050	0.010	0.20	0.020	60
APR 30...	0.70	25	332	354	0.45	<0.010	<0.050	<0.010	0.20	0.010	10
JUL 07...	0.50	31	484	518	0.66	<0.010	<0.050	0.010	<0.20	<0.010	<10
DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
OCT 28...	10	86	<0.5	<1.0	<1	<3	<1	6	<1	51	14
DEC 27...	--	100	--	--	--	<3	--	13	--	56	2
FEB 27...	--	79	--	--	--	<3	--	32	--	37	4
APR 30...	--	88	--	--	--	<3	--	4	--	51	7
JUL 07...	--	80	--	--	--	<3	--	<3	--	58	92

HUMBOLDT RIVER BASIN

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV--Continued

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)	CYANIDE DIS- SOLVED (MG/L AS CN)
OCT 28...	<0.1	<10	<1	<1	<1.0	420	<6	7	<0.010	--
DEC 27...	--	<10	<1	<1	<1.0	430	8	--	<0.010	--
FEB 27...	--	<10	2	<1	<1.0	330	<6	--	--	<0.01
APR 30...	--	<10	1	<1	<1.0	380	7	--	--	<0.01
JUL 07...	--	<10	1	<1	<1.0	460	<6	--	<0.010	--

K: NON-IDEAL COLONY COUNT

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
JUN 02...	1105	69	26	4.8

HUMBOLDT RIVER BASIN

215

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°59'33", 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, 1.0 mi upstream from Kelly Creek, 9 mi northeast of Golconda, and 32 mi northwest of Battle Mountain.

DRAINAGE AREA.--12,100 mi², approximately.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 4,359.9 ft, above sea level (from Soil Conservation Service reference mark). Prior to September 25, 1917, nonrecording gages at several sites about 10 mi downstream at different datums. September 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 0.5 mi of present site at different datum.

REMARKS.--Records poor. Many diversions above station for irrigation, 206,000 acres, additional acreage not covered by decree.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 245 ft³/s, March 10, gage height, 3.67 ft; minimum daily, 0.03 ft³/s, August 4-5, 8-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.13	.09	5.0	e26	76	178	154	47	45	e.15	.04	e1.0
2	e.12	.10	8.5	e25	79	172	154	45	40	.14	.04	e1.2
3	e.12	.09	9.8	e30	82	168	151	48	35	.13	.04	e1.5
4	e.11	.09	8.3	e35	78	167	146	50	32	.12	.03	1.7
5	e.11	.09	11	e40	98	164	141	57	30	.12	.03	1.8
6	e.10	.08	17	e44	87	171	136	59	26	.11	.04	1.8
7	e.10	.09	30	e47	94	189	130	56	17	.09	.04	1.7
8	e.10	.09	36	e48	103	213	125	48	13	.09	.03	1.7
9	e.10	.11	24	50	107	234	124	53	9.6	.09	.03	1.9
10	e.10	.09	29	e42	107	244	123	115	6.2	.08	.03	2.2
11	e.10	.09	27	e35	111	240	121	116	4.0	.09	.03	2.3
12	e.09	.09	19	32	110	230	121	125	2.9	.08	.03	2.2
13	e.09	.14	28	36	95	222	121	138	2.7	.08	e.03	2.1
14	e.09	.13	30	35	93	208	121	144	2.6	.08	e.03	2.3
15	e.09	.13	26	43	92	192	122	151	e2.5	.08	e.03	2.4
16	e.09	.13	30	49	93	185	126	154	e2.4	.07	e.03	2.0
17	e.09	.13	25	56	99	181	128	146	e2.3	.07	e.03	2.0
18	.09	.13	31	62	104	176	130	147	e2.3	.06	e.04	2.1
19	.09	.13	e30	62	108	173	126	140	2.3	.06	e.04	2.1
20	.09	.13	e23	62	110	171	123	137	2.1	.06	e.05	2.1
21	.09	1.3	e22	52	112	168	122	133	1.6	.06	e.05	2.2
22	.10	3.5	e25	49	115	164	115	129	1.0	.06	e.07	2.3
23	.11	3.1	27	45	120	162	110	126	.54	.06	e.10	2.3
24	.11	7.2	25	44	135	162	104	119	e.40	.06	e.13	2.4
25	.11	10	22	47	145	163	98	111	e.33	.06	e.20	2.4
26	.12	13	27	52	164	161	94	93	e.28	.06	e.25	2.5
27	.10	15	36	60	173	159	88	80	e.23	.06	e.40	2.5
28	.09	18	e35	59	178	156	83	75	e.20	.05	e.45	2.5
29	.11	14	e30	64	180	158	63	68	e.18	.04	e.60	3.8
30	.09	6.4	e29	69	---	160	52	60	e.16	.04	e.70	3.5
31	.09	---	e27	70	---	157	---	52	---	.04	e.80	---
TOTAL	3.12	93.65	752.6	1470	3248	5648	3552	3022	284.82	2.44	4.44	64.5
MEAN	.10	3.12	24.3	47.4	112	182	118	97.5	9.49	.079	.14	2.15
MAX	.13	18	36	70	180	244	154	154	45	.15	.80	3.8
MIN	.09	.08	5.0	25	76	156	52	45	.16	.04	.03	1.0
AC-FT	6.2	186	1490	2920	6440	11200	7050	5990	565	4.8	8.8	128

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1992, BY WATER YEAR (WY)

	MEAN	28.5	58.9	93.2	130	249	524	743	755	837	407	69.7	17.5
MAX	259	386	791	762	873	3267	5312	6227	4630	1930	636	189	
(WY)	1985	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
MIN	.045	.10	.090	.10	.16	25.0	57.8	9.79	3.33	.079	.084	.000	
(WY)	1954	1955	1961	1955	1955	1896	1920	1918	1918	1992	1954	1920	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1895 - 1992
ANNUAL TOTAL	32044.12	18145.57	
ANNUAL MEAN	87.8	49.6	326
HIGHEST ANNUAL MEAN			2022
LOWEST ANNUAL MEAN			36.8
HIGHEST DAILY MEAN	583	Jun 25	9640
LOWEST DAILY MEAN	.07	Sep 26	.00
ANNUAL SEVEN-DAY MINIMUM	.09	Oct 31	.00
INSTANTANEOUS PEAK FLOW			9900
INSTANTANEOUS PEAK STAGE			12.25
ANNUAL RUNOFF (AC-FT)	63560	35990	236000
10 PERCENT EXCEEDS	249	154	898
50 PERCENT EXCEEDS	30	18	110
90 PERCENT EXCEEDS	.10	.07	.50

HUMBOLDT RIVER BASIN

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 mi², approximately.

PERIOD OF RECORD.--October 1921 to June 1928 (fragmentary), October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314. Records since 1975 water year are not considered equivalent record due to completion of Chimney Dam Reservoir.

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.

REMARKS.--Records good except for estimated daily discharges, which are poor. 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. Maximum discharge (water years 1922-23, 25-27, 1944-74) 2,380 ft³/s January 21, 1969, gage height 8.40 ft; minimum, 0.46 ft³/s, August 25, 1973, probably result of temporary blockage upstream. Average discharge for the same period is 25.6 ft³/s, 18,550 acre-feet/yr.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s, February 20, gage height, 0.38 ft; maximum gage height 0.59 ft, May 9-14, result of control change; minimum daily discharge, 4.1 ft³/s, July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	e9.4	8.5	7.8	7.6	e10	9.2	8.8	6.3	7.2	4.9	6.4
2	6.8	e9.4	8.5	7.8	7.8	e9.7	8.9	8.5	6.4	7.3	4.5	6.5
3	6.8	e9.4	8.5	7.8	7.8	e9.7	8.9	8.5	6.2	7.3	4.4	6.3
4	6.8	e9.4	8.5	7.8	7.9	e9.6	8.5	8.5	6.3	7.1	4.7	6.8
5	6.9	e9.4	8.5	7.8	8.2	e9.6	8.5	8.4	6.1	6.9	4.7	6.7
6	7.2	e9.6	8.5	7.8	8.2	e9.6	8.0	7.8	6.2	7.0	4.5	6.7
7	7.1	e9.6	9.1	7.8	8.2	e9.8	8.5	8.0	6.1	6.9	4.6	6.6
8	7.2	e9.6	9.2	7.8	8.2	e9.6	8.0	8.1	6.0	7.0	4.8	6.7
9	7.0	e9.6	8.8	8.0	8.5	e9.2	7.9	8.1	6.0	7.2	4.3	6.5
10	e7.0	e9.4	8.6	7.9	8.6	e9.1	8.2	8.2	5.8	6.9	4.9	6.5
11	e7.0	e9.1	8.5	7.8	8.8	e9.0	8.2	8.2	5.5	7.0	5.3	6.6
12	e7.0	e9.2	8.5	7.8	8.9	e9.0	7.8	8.1	5.6	7.9	5.6	6.6
13	e7.0	e9.4	8.5	7.8	e9.0	e9.0	7.8	7.8	6.1	7.5	5.8	6.3
14	e7.0	e9.7	8.5	7.8	e9.4	e9.0	7.9	7.7	6.2	7.3	6.2	6.5
15	e7.0	e9.4	8.5	7.8	e9.0	e9.5	7.8	7.5	6.5	7.8	6.7	6.5
16	e7.1	e9.4	8.5	7.8	e9.0	e9.5	7.9	7.5	6.5	8.4	6.9	6.2
17	e7.1	e9.4	8.5	7.8	e8.8	e9.4	8.3	7.5	6.2	8.0	6.9	6.3
18	e7.2	e9.8	8.3	8.0	e8.7	e9.3	8.1	7.2	6.0	7.5	7.3	6.2
19	e7.2	e9.5	8.2	8.0	e8.9	e9.5	8.0	7.5	6.2	7.1	6.9	6.4
20	e7.2	e9.4	8.2	7.8	e14	e9.2	8.1	8.1	6.1	6.7	6.8	6.4
21	e7.2	e9.0	8.2	7.8	e13	e9.0	8.4	8.6	5.5	6.2	6.5	6.5
22	e7.3	8.8	8.2	7.8	e11	e8.8	8.6	8.0	5.7	5.8	6.8	6.6
23	e7.4	8.8	8.2	7.6	e10	e9.5	8.5	8.1	5.4	6.1	6.5	6.5
24	e7.5	8.8	8.2	7.5	e10	e9.1	8.5	8.2	5.9	5.7	6.9	6.8
25	e7.7	8.8	8.2	7.5	e9.8	e9.2	8.4	8.2	6.6	5.5	6.7	7.4
26	e10	8.8	8.2	7.5	e9.8	9.0	8.6	8.5	6.4	5.4	6.1	6.9
27	e12	8.8	8.2	7.5	e9.8	8.8	8.8	8.1	6.1	5.3	6.5	7.4
28	e9.6	8.8	8.2	7.5	e9.8	8.7	8.8	8.1	6.1	4.4	6.8	7.0
29	e9.7	8.8	8.0	7.5	e9.8	8.5	8.6	8.2	6.3	4.4	6.8	6.9
30	e9.0	8.6	7.8	7.5	---	9.2	8.8	7.3	7.1	4.1	6.8	7.0
31	e8.8	---	7.8	7.5	---	9.9	---	6.6	---	4.8	6.9	---
TOTAL	236.6	277.1	260.1	239.9	268.5	288.0	250.5	247.9	183.4	203.7	184.0	198.7
MEAN	7.63	9.24	8.39	7.74	9.26	9.29	8.35	8.00	6.11	6.57	5.94	6.62
MAX	12	9.8	9.2	8.0	14	10	9.2	8.8	7.1	8.4	7.3	7.4
MIN	6.8	8.6	7.8	7.5	7.6	8.5	7.8	6.6	5.4	4.1	4.3	6.2
AC-FT	469	550	516	476	533	571	497	492	364	404	365	394

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1992, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	9.37	9.95	10.1	10.1	12.4	14.5	36.5	73.9	59.1	25.2	16.6	12.2						
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	6.42	6.75	7.25	6.99	7.05	8.36	8.24	8.00	6.11	6.57	5.94	6.62						
(WY)	1975	1989	1981	1981	1981	1982	1991	1992	1992	1992	1992	1992						

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1975 - 1992

ANNUAL TOTAL	3966.5	2838.4	
ANNUAL MEAN	10.9	7.76	
HIGHEST ANNUAL MEAN			80.2 1984
LOWEST ANNUAL MEAN			7.76 1992
HIGHEST DAILY MEAN	36 Jun 11	14 Feb 20	656 May 17 1984
LOWEST DAILY MEAN	6.2 Sep 21	4.1 Jul 30	4.1 Jul 30 1992
ANNUAL SEVEN-DAY MINIMUM	6.3 Sep 17	4.5 Jul 28	4.5 Jul 28 1992
INSTANTANEOUS PEAK FLOW		14 Feb 20	678 May 15 1984
INSTANTANEOUS PEAK STAGE		.59 May 9	6.46 May 15 1984
ANNUAL RUNOFF (AC-FT)	7870	5630	17520
10 PERCENT EXCEEDS	20	9.4	55
50 PERCENT EXCEEDS	8.4	7.8	9.5
90 PERCENT EXCEEDS	7.1	6.1	7.0

HUMBOLDT RIVER BASIN

217

10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'00", long 117°25'40", in SE 1/4 NW 1/4 (revised) 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.--172 mi².

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945.

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft above sea level, 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.--No estimated daily discharges. Records good. Diversion for irrigation of 40 acres above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 20	1200	*87	*1.37				

Minimum daily, 4.8 ft³/s, Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	10	11	10	11	20	22	24	8.3	7.1	5.0	6.8
2	6.4	11	13	9.2	11	19	21	23	7.9	7.2	5.0	6.3
3	6.4	11	12	10	10	19	22	22	7.6	7.0	4.9	6.8
4	6.4	11	11	13	11	19	22	21	7.3	6.5	4.8	8.3
5	6.3	11	12	12	10	18	22	21	7.0	6.2	5.0	7.0
6	6.4	12	13	12	11	20	20	21	7.1	6.1	5.1	6.6
7	6.4	14	13	12	11	19	20	20	7.1	6.1	5.1	6.6
8	6.4	14	11	9.0	12	19	19	20	6.8	6.1	5.2	6.6
9	6.4	14	10	9.4	13	18	19	21	6.6	6.0	5.2	6.4
10	6.5	14	11	11	13	18	22	20	6.4	5.7	5.1	6.5
11	6.5	13	8.9	12	13	18	27	19	6.3	5.8	5.1	6.3
12	6.6	12	12	12	13	18	25	18	6.5	6.7	4.9	6.3
13	6.6	13	12	11	13	18	26	17	7.6	6.5	5.0	6.4
14	6.8	13	11	12	14	18	26	17	8.5	6.0	5.1	6.7
15	7.1	12	11	11	13	19	25	16	8.5	5.7	5.5	6.6
16	7.1	12	10	11	13	19	25	16	8.3	5.6	6.0	6.6
17	7.1	12	11	12	12	19	26	15	8.1	5.4	6.1	6.5
18	7.2	14	13	9.8	12	18	27	14	8.7	5.4	5.9	6.5
19	7.5	12	12	8.7	12	17	25	14	8.5	5.3	5.6	6.6
20	7.5	12	9.3	9.3	39	17	24	14	8.3	5.2	5.5	6.5
21	7.5	14	8.9	9.8	27	18	25	14	7.4	5.2	5.5	6.6
22	7.6	13	12	11	22	17	25	13	6.7	5.4	5.6	7.2
23	7.7	11	12	11	20	17	24	12	6.1	5.3	5.8	7.1
24	7.9	12	11	11	18	17	22	12	5.8	5.5	6.1	6.6
25	8.6	12	11	11	18	17	22	11	6.2	5.5	6.1	6.7
26	13	13	11	11	18	17	22	11	6.9	5.4	6.1	7.1
27	15	13	12	10	18	18	23	10	7.0	5.2	6.1	7.1
28	11	12	12	11	19	18	23	10	6.4	5.1	6.0	7.0
29	11	11	12	11	20	18	23	9.6	6.4	5.0	6.1	7.0
30	10	8.8	12	10	---	19	25	9.1	6.8	4.9	6.3	6.8
31	9.8	---	12	10	---	21	---	8.8	---	5.0	6.5	---
TOTAL	243.1	366.8	353.1	333.2	447	567	699	493.5	217.1	179.1	171.3	202.1
MEAN	7.84	12.2	11.4	10.7	15.4	18.3	23.3	15.9	7.24	5.78	5.53	6.74
MAX	15	14	13	13	39	21	27	24	8.7	7.2	6.5	8.3
MIN	6.3	8.8	8.9	8.7	10	17	19	8.8	5.8	4.9	4.8	6.3
AC-FT	482	728	700	661	887	1120	1390	979	431	355	340	401

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1992, BY WATER YEAR (WY)

	MEAN	7.65	9.53	12.0	19.0	32.2	51.3	88.7	107	55.1	11.8	5.88	6.11
MAX	13.1	19.6	70.4	149	291	219	441	500	319	50.1	13.2	9.00	
(WY)	1985	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1922 - 1992
ANNUAL TOTAL	7985.5	4272.3	
ANNUAL MEAN	21.9	11.7	33.8
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			8.18
HIGHEST DAILY MEAN	128	May 25	2500
LOWEST DAILY MEAN	5.2	Aug 10	2.0
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 31	2.0
INSTANTANEOUS PEAK FLOW		87	9000
INSTANTANEOUS PEAK STAGE		1.37	11.10
INSTANTANEOUS LOW FLOW		4.3	1.5
ANNUAL RUNOFF (AC-FT)	15840	8470	24480
10 PERCENT EXCEEDS	55	21	94
50 PERCENT EXCEEDS	11	11	10
90 PERCENT EXCEEDS	5.8	5.7	5.6

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'30", long 118°12'10", 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, and 4 mi northwest of Imlay.

DRAINAGE AREA.--15,700 mi², approximately.

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year. Monthly discharge only October to December 1941, published in WSP 1314.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,130 ft above sea level, 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 fair 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. No flow has occurred many times during period of record.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 187 ft³/s, March 15, 16, gage height, 3.26 ft; no flow, July 19 through September 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	8.9	10	e45	51	123	145	32	e2.4	e1.7	e.00	e.00
2	4.7	9.1	e10	e45	e51	130	145	35	e2.1	e1.8	e.00	e.00
3	4.7	8.7	e10	e45	e52	135	143	33	1.9	e1.4	e.00	e.00
4	4.7	8.6	e10	e50	53	137	141	32	1.8	e1.3	e.00	e.00
5	4.7	8.3	e10	e50	54	139	138	31	1.7	e1.0	e.00	e.00
6	4.7	8.3	e10	e50	55	141	137	30	1.7	e.91	e.00	e.00
7	5.0	8.3	e10	e50	59	145	133	29	1.8	e2.1	e.00	e.00
8	4.7	8.4	e10	e50	61	143	115	27	1.7	e2.5	e.00	e.00
9	4.9	9.4	e10	e50	64	141	111	24	1.8	e1.8	e.00	e.00
10	5.0	9.7	e10	e50	70	144	110	22	1.7	e1.4	e.00	e.00
11	5.2	10	e15	e50	74	154	108	21	1.7	e1.1	e.00	e.00
12	5.1	9.4	e15	e50	78	166	106	20	1.7	e1.1	e.00	e.00
13	5.1	9.4	e15	e50	82	174	104	19	1.9	e1.3	e.00	e.00
14	5.2	9.2	e15	e50	86	185	102	19	1.8	e1.8	e.00	e.00
15	5.6	9.6	e15	e50	88	187	100	18	e2.1	e1.5	e.00	e.00
16	5.6	9.2	e15	e55	88	181	100	16	e2.2	e.40	e.00	e.00
17	5.5	9.4	e20	e55	86	181	101	15	e2.0	e.10	e.00	e.00
18	5.7	10	e20	e55	86	172	98	14	e2.0	e.04	e.00	e.00
19	5.3	10	e20	e55	85	165	99	13	e1.9	e.00	e.00	e.00
20	5.4	10	e20	e55	87	161	96	9.8	e1.8	e.00	e.00	e.00
21	6.0	10	e25	e55	88	159	74	6.8	e1.4	e.00	e.00	e.00
22	6.0	9.5	e25	e55	91	156	59	5.9	e1.3	e.00	e.00	e.00
23	5.9	9.7	e25	e60	91	156	53	5.4	e1.2	e.00	e.00	e.00
24	6.4	8.8	e25	e60	93	156	53	e4.4	e1.1	e.00	e.00	e.00
25	7.2	10	e30	e60	94	153	49	e7.8	e1.9	e.00	e.00	e.00
26	8.6	11	e30	e60	95	149	49	e6.1	e2.1	e.00	e.00	e.00
27	9.1	12	e30	e60	99	148	47	e3.5	e1.7	e.00	e.00	e.00
28	10	12	e35	e60	106	148	41	e3.1	e1.4	e.00	e.00	e.00
29	9.7	11	e35	e60	114	148	36	e2.8	e1.3	e.00	e.00	e.00
30	9.1	11	e40	e60	---	150	33	e2.7	e1.6	e.00	e.00	e.00
31	8.7	---	e40	e60	---	148	---	e2.5	---	e.00	e.00	---
TOTAL	188.5	288.9	610	1660	2281	4775	2826	510.8	52.7	23.25	0.00	0.00
MEAN	6.08	9.63	19.7	53.5	78.7	154	94.2	16.5	1.76	.75	.000	.000
MAX	10	12	40	60	114	187	145	35	2.4	2.5	.00	.00
MIN	4.7	8.3	10	45	51	123	33	2.5	1.1	.00	.00	.00
AC-FT	374	573	1210	3290	4520	9470	5610	1010	105	46	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1992, BY WATER YEAR (WY)

	MEAN	40.2	57.5	86.9	109	176	386	540	633	657	438	112	42.5
MAX	301	412	685	779	991	1991	4489	6223	5355	2340	936	291	
(WY)	1985	1985	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
MIN	.000	.000	.000	.000	.000	.000	33.7	45.8	16.5	1.76	.75	.000	.000
(WY)	1936	1936	1936	1940	1941	1955	1955	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1935 - 1992

ANNUAL TOTAL	20839.6	13216.15	
ANNUAL MEAN	57.1	36.1	269
HIGHEST ANNUAL MEAN			2017
LOWEST ANNUAL MEAN			26.0
HIGHEST DAILY MEAN	409	Jul 1	187
LOWEST DAILY MEAN	4.7	Sep 27	.00
ANNUAL SEVEN-DAY MINIMUM	4.7	Oct 2	.00
INSTANTANEOUS PEAK FLOW			187
INSTANTANEOUS PEAK STAGE			3.26
ANNUAL RUNOFF (AC-FT)	41340	26210	195000
10 PERCENT EXCEEDS	120	131	678
50 PERCENT EXCEEDS	30	9.9	92
90 PERCENT EXCEEDS	6.3	.00	9.4

HUMBOLDT RIVER BASIN

219

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 mi², 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 U.S. Bureau of Reclamation, in use since October 1, 1971. Water is used for irrigation in the Lovelock area. Daily contents below elevation 4,116.0 ft (contents 35,600 ac-ft) are not direct readings from staff gage but are based on releases from the reservoir.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 196,900 acre-ft, April 9, 1946, elevation, 4,134.62 ft, capacity table then in use; maximum elevation, 4,135.9 ft, July 27 to August 3, 1983, and July 11-15, 1984; 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, 20,920 acre-ft, April 26 to May 3, elevation, 4,111.8 ft; minimum observed, 0 acre-ft, July 17, August 11-13, elevation, 4,072.5 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 (AC-FT), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2830	3148	3460	3782	4180	8466	17200	20920	2317	331	100	331
2	2830	3187	3460	3782	4180	11000	17400	20920	1840	331	100	344
3	2830	3187	3460	3828	7354	11100	17600	20920	1708	331	100	357
4	2830	3187	3460	3828	7354	11210	17800	20680	1510	331	100	370
5	2830	3187	3506	3828	7430	11310	18000	19720	1330	331	100	370
6	2830	3226	3506	3828	7430	11420	18200	18800	950	331	100	386
7	2830	3226	3506	3874	7506	11520	18400	18000	950	331	100	402
8	2830	3226	3506	3874	7506	11630	18600	17200	789	331	100	418
9	2830	3226	3552	3874	7582	11750	18800	16500	789	331	100	434
10	2830	3226	3552	3874	7582	11860	19000	16000	789	331	100	434
11	2830	3265	3552	3920	7658	11970	19240	15660	789	331	.00	450
12	2830	3265	3552	3920	7658	12080	19480	13900	789	331	.00	450
13	2830	3265	3598	3920	7734	12200	19720	12650	789	331	.00	466
14	2830	3265	3598	3920	7734	12310	19960	11520	789	331	121	466
15	2830	3304	3598	3972	7892	12420	19960	10480	789	84	137	482
16	2830	3304	3598	3972	7892	12540	20200	9520	858	32	153	482
17	2830	3304	3644	3972	7974	12650	20200	8630	644	.00	161	498
18	2830	3304	3644	3972	7974	12770	20200	8056	568	42	161	498
19	2830	3343	3644	4024	8056	12900	20200	6908	568	100	180	498
20	2830	3343	3644	4024	8056	13020	20200	6208	568	100	187	514
21	2830	3343	3644	4024	8138	13150	20440	5746	568	100	202	530
22	2830	3343	3690	4024	8138	13270	20440	5548	568	100	210	549
23	3109	3382	3690	4076	8220	15330	20440	4788	568	100	225	549
24	3109	3382	3690	4076	8220	15500	20680	4440	482	100	240	568
25	3109	3382	3690	4076	8302	15660	20680	4076	418	100	240	587
26	3109	3382	3736	4076	8302	15830	20920	3598	331	100	253	587
27	3109	3421	3736	4128	8384	16000	20920	3382	331	100	266	606
28	3148	3421	3736	4128	8384	16160	20920	3187	331	100	266	606
29	3148	3421	3736	4128	8466	16330	20920	2974	331	100	292	625
30	3148	3421	3782	4128	---	16500	20920	2734	331	100	305	625
31	3148	---	3782	4180	---	17000	---	2512	---	100	318	---
MAX	3148	3421	3782	4180	8466	17000	20920	20920	2317	331	318	625
MIN	2830	3148	3460	3782	4180	8466	17200	2512	331	.00	.00	331
#	4094.2	4094.9	4095.7	4096.5	4102.8	4110.0	4111.8	4092.8	4084.7	4081.3	4084.6	4086.5
##	+318	+273	+361	+398	+4286	+8534	+3920	-18410	-2181	-231	+218	+307

CAL YR 1991 MAX 18600 MIN 2020 ## +1760

WTR YR 1992 MAX 20920 MIN 0 ## -2210

Elevation, in feet above sea level, at end of month.

Change in contents, in acre-feet.

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'00", long 118°18'20", in SE 1/4 NE 1/4 sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on left bank, 1,000 ft downstream from Rye Patch Dam, and 1.5 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi², approximately.

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. Monthly discharge only for some periods, published in WSP 1314. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,063.53 ft, above sea level (levels by Bureau of Reclamation). 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.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rye Patch Reservoir (station 10334500) since 1936. Records prior to completion of dam are not equivalent. Maximum discharge prior to 1936, 3,050 ft³/s, May 12, 1897, gage height 12.0 ft (datum then in use); no flow several years. Average discharge (water years 1900-09, 11-16, 18-22, 31, 32) 228 ft³/s, 165,200 acre-ft/yr.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 748 ft³/s, May 13, gage height, 8.07 ft; minimum daily, 0.06 ft³/s, August 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	.54	.52	.36	.36	.55	.86	1.2	96	2.2	.11	.10
2	.48	.51	.56	.36	.37	.51	.91	1.2	95	1.0	.10	.11
3	.48	.54	.56	.33	.34	.53	.91	238	107	.85	.09	.10
4	.44	.57	.54	.37	.38	.53	.90	339	143	.87	.10	.10
5	.47	.59	.54	.37	.37	.57	.87	335	108	.88	.10	.11
6	.48	.61	.52	.34	.38	.60	.87	231	4.6	1.2	.10	.11
7	.43	.67	.55	.36	.40	.52	.86	434	1.1	3.0	.09	.11
8	.47	.64	.47	.35	.36	.55	.91	521	1.5	3.3	.09	.12
9	.42	.63	.47	.34	.36	.63	.94	610	2.0	3.3	.09	.11
10	.41	.57	.46	.36	.36	.64	.88	366	1.5	3.5	.08	.12
11	.44	.57	.45	.36	.36	.67	.90	488	1.9	3.5	46	.12
12	.47	.61	.47	.35	.34	.69	.87	625	1.1	3.4	24	.12
13	.47	.66	.49	.32	.32	.73	1.0	728	1.3	3.8	.08	.10
14	.47	.55	.46	.33	.34	.74	1.0	724	1.1	41	.06	.13
15	.51	.55	.43	.34	.33	.72	1.1	714	81	125	.06	.14
16	.56	.64	.40	.35	.31	.72	1.0	705	82	113	.07	.13
17	.54	.71	.43	.33	.34	.66	1.0	561	7.0	15	5.1	.13
18	.56	.70	.47	.40	.36	.72	.98	304	7.3	1.5	.07	.14
19	.58	.66	.44	.36	.37	.75	.93	360	7.0	6.1	.07	.13
20	.53	.63	.38	.38	.36	.78	.98	425	7.1	8.5	.08	.13
21	.61	.63	.37	.39	.36	.83	.96	446	7.9	17	.08	.14
22	.64	.61	.40	.36	.37	.85	.97	468	7.8	5.1	.08	.14
23	.61	.62	.39	.36	.37	.85	.96	387	8.0	.61	.07	.14
24	.54	.60	.39	.38	.42	.79	.97	211	34	.69	.07	.13
25	.57	.64	.41	.38	.42	.78	1.0	147	124	.71	.09	.13
26	.64	.64	.45	.38	.43	.83	1.4	283	89	.68	.10	.14
27	.52	.60	.45	.38	.51	.83	1.5	241	6.2	13	.11	.14
28	.47	.51	.45	.40	.52	.83	1.5	107	5.1	.14	.11	.14
29	.49	.51	.42	.40	.54	.84	1.5	62	4.4	24	.11	.13
30	.51	.67	.42	.38	---	.90	1.0	103	3.2	9.5	.10	.13
31	.54	---	.36	.37	---	.85	---	116	---	.11	.10	---
TOTAL	15.83	18.18	14.12	11.24	11.05	21.99	30.43	11281.4	1046.1	412.44	77.56	3.72
MEAN	.51	.61	.46	.36	.38	.71	1.01	364	34.9	13.3	2.50	.12
MAX	.64	.71	.56	.40	.54	.90	1.5	728	143	125	.46	.14
MIN	.41	.51	.36	.32	.31	.51	.86	1.2	1.1	.11	.06	.10
AC-FT	31	36	28	22	22	44	60	22380	2070	818	154	7.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1992, BY WATER YEAR (WY)

	MEAN	96.4	31.7	38.8	72.9	44.2	160	447	671	552	443	242	140
MAX	252	277	979	1310	1142	2206	3579	6215	4981	1983	899	321	
(WY)	1976	1985	1984	1984	1984	1983	1984	1984	1984	1984	1984	1958	
MIN	.000	.000	.000	.000	.000	.000	.14	104	22.8	1.54	.42	.12	
(WY)	1936	1936	1936	1936	1936	1937	1991	1955	1961	1991	1961	1992	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1936 - 1992

ANNUAL TOTAL	16251.49	12944.06	
ANNUAL MEAN	44.5	35.4	246
HIGHEST ANNUAL MEAN			2004
LOWEST ANNUAL MEAN			29.2
HIGHEST DAILY MEAN	511	728	7840
LOWEST DAILY MEAN	.11	.06	.00
ANNUAL SEVEN-DAY MINIMUM	.12	.07	.00
INSTANTANEOUS PEAK FLOW		748	7960
INSTANTANEOUS PEAK STAGE		8.07	13.65
ANNUAL RUNOFF (AC-FT)	32230	25670	178200
10 PERCENT EXCEEDS	215	91	542
50 PERCENT EXCEEDS	.52	.55	95
90 PERCENT EXCEEDS	.14	.11	.14

PYRAMID AND WINNEMUCCA LAKES BASIN

221

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.--2,730 mi².

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 sea level (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.

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 in order 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).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,877.9 ft in 1891 (see REMARKS paragraph); minimum observed, 3,783.9 ft, February 6, and March 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 21,850,000 acre-ft, October 1, elevation 3801.2 ft; minimum contents observed, 21,550,000 acre-ft, August 27, elevation, 3798.5 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	3,801.2	21,850,000	--
Oct. 31.	3,800.6	21,790,000	-60,000
Nov. 30.	3,800.3	21,750,000	-40,000
Dec. 31.	3,800.0	21,720,000	-30,000
CAL YEAR 1991.	--	--	-340,000
Jan. 31.	3,799.9	21,710,000	-10,000
Feb. 29.	3,799.8	21,700,000	-10,000
Mar. 31.	3,799.8	21,700,000	0
Apr. 30.	3,799.6	21,680,000	-20,000
May 31.	3,799.4	21,650,000	-30,000
June 30.	3,799.3	21,640,000	-10,000
July 31.	3,799.0	21,610,000	-30,000
Aug. 31.	3,798.4	21,540,000	-70,000
Sept. 30.	3,797.9	21,490,000	-50,000
WTR YEAR 1992.	--	--	-360,000

NOTE.--Monthend elevations are interpolated from readings made during the month.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA

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, Calif.

DRAINAGE AREA.--14.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,490 ft above sea level, from topographic map. Prior to October 1, 1991 at site 1,200 ft downstream at datum 2.54 higher.

REMARKS.--Records good except for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 162 ft³/s, April 17, gage height, 7.40 ft; minimum daily, 1.60 ft³/s, October 4-11, September 10-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.7	3.1	e8.0	4.6	3.7	17	30	72	22	9.0	3.4	2.2
2	1.9	3.1	7.2	5.2	e4.0	15	37	69	21	7.1	3.4	2.1
3	1.7	3.1	6.5	4.2	e4.4	15	47	71	19	5.7	3.1	2.1
4	1.6	3.1	6.2	3.7	e4.2	14	46	73	18	5.2	3.1	2.1
5	1.6	3.5	7.0	5.7	3.7	15	38	76	17	4.6	3.1	2.0
6	1.6	4.7	4.9	4.4	3.7	15	33	83	16	4.6	3.0	1.9
7	1.6	5.2	4.1	4.0	3.7	13	34	93	15	4.7	3.0	1.9
8	1.6	7.3	e4.2	e4.1	3.8	12	36	96	14	4.8	2.9	1.9
9	1.6	15	e3.9	e4.1	4.0	12	38	79	13	4.5	2.9	1.8
10	1.6	12	e3.6	4.2	4.0	12	41	65	12	4.5	2.9	1.6
11	1.6	7.2	e4.0	4.3	e4.1	13	43	64	11	15	2.7	1.6
12	1.7	5.6	e3.5	e4.3	e4.2	12	43	60	12	20	2.7	1.6
13	1.7	5.2	e4.1	e4.3	4.4	13	63	57	11	11	2.7	1.7
14	1.7	4.9	4.3	e4.2	e4.5	14	54	54	11	8.8	3.8	1.7
15	1.7	4.9	4.3	e4.1	e4.5	14	48	50	13	8.9	4.4	1.7
16	1.7	6.6	4.0	4.0	e4.6	12	41	47	14	7.6	3.3	1.7
17	1.7	6.9	3.8	3.9	e4.8	11	127	46	13	7.2	2.8	1.7
18	1.7	11	e3.8	3.7	e5.2	12	76	43	11	6.3	2.7	1.8
19	1.7	6.4	e3.8	e3.8	5.4	10	63	40	11	5.6	2.7	1.7
20	1.7	7.3	e3.9	e4.2	10	10	60	35	9.6	5.2	2.6	1.7
21	1.7	12	e4.1	e4.5	14	10	62	31	8.7	4.8	2.5	1.7
22	1.7	12	e4.3	e4.4	35	10	55	30	8.2	4.4	2.5	1.7
23	1.9	15	4.5	e4.3	27	9.8	59	29	7.7	4.3	2.5	1.7
24	1.9	6.4	4.4	e4.2	19	9.8	64	29	8.0	4.3	2.4	1.7
25	2.3	6.0	4.3	4.1	17	10	74	29	7.7	4.2	2.3	1.7
26	14	5.7	3.9	4.0	16	11	78	28	7.0	3.9	2.2	1.7
27	5.2	6.0	3.7	3.7	17	14	80	31	6.5	3.7	2.3	1.7
28	3.2	9.4	3.6	3.7	18	18	87	32	6.2	3.6	2.1	1.7
29	3.1	8.3	3.7	e4.2	18	22	103	27	6.8	3.4	1.9	1.7
30	3.0	7.6	4.5	e4.0	---	23	93	25	12	3.4	2.1	1.7
31	3.5	---	4.7	3.7	---	21	---	23	---	3.4	2.4	---
TOTAL	74.9	214.5	140.8	129.8	271.9	419.6	1753	1587	362.4	193.7	86.4	53.5
MEAN	2.42	7.15	4.54	4.19	9.38	13.5	58.4	51.2	12.1	6.25	2.79	1.78
MAX	14	15	8.0	5.7	35	23	127	96	22	20	4.4	2.2
MIN	1.6	3.1	3.5	3.7	3.7	9.8	30	23	6.2	3.4	1.9	1.6
AC-FT	149	425	279	257	539	832	3480	3150	719	384	171	106

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	2.37	4.64	3.12	2.88	6.27	10.1	36.7	68.0	50.0	9.35	2.40	1.58
MAX	2.42	7.15	4.54	4.19	9.38	13.5	58.4	84.9	93.8	12.3	2.79	1.78
(WY)	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991	1992	1992
MIN	2.33	2.13	1.69	1.57	3.06	6.64	15.1	51.2	12.1	6.25	2.17	1.30
(WY)	1991	1991	1991	1991	1991	1991	1991	1992	1992	1992	1990	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	7158.5	5287.5	
ANNUAL MEAN	19.6	14.4	16.7
HIGHEST ANNUAL MEAN			19.0
LOWEST ANNUAL MEAN			14.4
HIGHEST DAILY MEAN	205	127	205
LOWEST DAILY MEAN	1.0	1.6	.76
ANNUAL SEVEN-DAY MINIMUM	1.0	1.6	.97
INSTANTANEOUS PEAK FLOW		162	308
INSTANTANEOUS PEAK STAGE		7.40	7.40
ANNUAL RUNOFF (AC-FT)	14200	10490	12100
10 PERCENT EXCEEDS	59	44	53
50 PERCENT EXCEEDS	4.3	4.8	4.3
90 PERCENT EXCEEDS	1.4	1.7	1.6

PYRAMID AND WINNEMUCCA LAKES BASIN

223

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA--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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
01...	0925	1.5	--	--	--	--	--	--	--
02...	1008	1.8	57	--	9.0	8.5	--	--	--
16...	1000	1.7	55	8.1	13.0	6.0	--	--	0.019
NOV									
05...	1000	3.3	46	--	3.0	2.0	--	--	--
07...	1245	4.6	37	8.5	19.0	4.5	--	--	0.008
09...	1030	15	25	--	13.0	4.5	--	--	0.005
DEC									
09...	1430	4.1	43	8.5	-1.0	0.5	--	--	0.019
11...	1023	4.0	43	--	1.0	1.0	--	--	--
JAN									
22...	1420	4.1	48	8.5	2.5	0.5	11.6	102	0.029
FEB									
18...	1300	5.1	41	8.8	4.5	1.0	--	--	0.024
MAR									
12...	0930	14	32	8.2	9.0	0.5	11.4	101	0.014
25...	1150	9.8	34	8.3	10.0	3.0	--	--	0.008
APR									
01...	1250	25	24	8.2	11.5	5.0	--	--	0.010
06...	1550	31	22	--	10.0	5.0	--	--	0.005
08...	0945	34	23	--	8.0	2.0	--	--	--
12...	1920	48	22	--	5.0	4.0	--	--	0.011
13...	1430	53	20	--	11.0	5.5	--	--	0.011
16...	2200	47	--	--	--	--	--	--	0.011
17...	0430	100	18	--	--	--	--	--	0.011
17...	0920	152	13	--	13.0	3.0	--	--	0.005
21...	1430	57	20	7.7	12.5	6.5	--	--	0.011
24...	1150	58	24	7.7	23.0	5.5	--	--	0.012
26...	2045	96	19	--	5.5	5.0	--	--	0.019
27...	1300	58	21	7.9	21.0	6.5	--	--	0.015
27...	2015	107	20	7.6	9.0	6.0	--	--	0.013
29...	0930	75	19	7.9	15.5	5.0	--	--	0.011
29...	1415	77	19	7.8	19.0	8.5	--	--	0.003
29...	1711	126	--	--	--	--	--	--	--
29...	1930	152	18	7.8	9.5	5.5	--	--	0.015
MAY									
04...	1320	59	23	7.8	20.5	8.5	--	--	0.004
04...	1850	90	21	7.9	8.0	9.0	--	--	0.003
05...	1605	71	21	7.8	20.5	8.5	--	--	0.003
13...	1125	50	22	--	22.5	9.5	--	--	0.007
18...	1040	40	27	--	20.5	8.5	--	--	0.003
27...	1500	24	28	--	10.5	12.0	--	--	0.007
27...	1740	32	28	--	11.0	11.0	--	--	0.014
JUN									
03...	0945	19	31	8.2	18.0	11.5	--	--	0.010
15...	1030	12	33	--	2.0	4.0	--	--	0.011
16...	1345	14	33	--	16.5	8.0	--	--	0.008
JUL									
06...	1235	4.7	41	--	18.0	12.0	--	--	0.003
12...	1100	15	30	--	15.5	11.5	--	--	0.018
13...	1615	10	34	--	16.0	14.0	--	--	--
22...	1345	4.3	44	--	19.0	13.5	--	--	0.010
AUG									
18...	1010	2.6	53	7.8	21.0	13.5	8.2	100	0.013
SEP									
09...	1110	1.8	54	--	20.5	10.0	--	--	0.032

PYRAMID AND WINNEMUCCA LAKES BASIN

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT								
01...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
16...	<0.004	0.07	0.035	0.024	0.07	46	<1	<.01
NOV								
05...	--	--	--	--	--	--	--	--
07...	<0.004	0.20	0.018	0.007	0.02	140	<1	<.01
09...	<0.004	0.17	0.023	0.003	0.01	261	7	0.28
DEC								
09...	0.004	0.15	0.017	0.010	0.03	128	<1	<.01
11...	--	--	--	--	--	--	--	--
JAN								
22...	<0.004	0.07	0.018	0.013	0.04	115	1	0.01
FEB								
18...	<0.004	0.07	0.017	0.011	0.03	128	1	0.01
MAR								
12...	<0.004	0.08	0.013	0.006	0.02	152	1	0.04
25...	<0.004	0.10	0.013	0.005	0.02	160	1	0.03
APR								
01...	0.001	0.13	0.013	0.002	0.01	138	3	0.20
06...	0.001	0.10	0.017	0.003	0.01	132	2	0.16
08...	--	--	--	--	--	--	--	--
12...	0.003	0.29	0.035	0.005	0.02	605	13	1.7
13...	0.002	0.14	0.017	0.005	0.02	52	3	0.43
16...	0.002	0.11	0.019	0.008	0.02	135	6	0.76
17...	0.008	0.47	0.065	0.006	0.02	1010	50	14
17...	0.001	0.47	0.059	0.005	0.02	1130	61	25
21...	0.004	0.09	0.017	0.006	0.02	138	1	0.15
24...	<0.001	0.19	0.012	0.006	0.02	190	2	0.32
26...	0.034	0.34	0.024	0.005	0.02	352	8	2.1
27...	<0.001	0.21	0.009	0.006	0.02	172	2	0.31
27...	0.001	0.21	0.026	0.005	0.02	469	13	3.8
29...	0.001	0.17	0.013	0.005	0.02	226	4	0.81
29...	0.001	0.15	0.011	0.004	0.01	175	3	0.62
29...	--	--	--	--	--	--	--	--
29...	0.001	0.42	0.062	0.006	0.02	1200	37	15
MAY								
04...	0.001	0.12	0.021	0.007	0.02	132	2	0.32
04...	0.001	0.13	0.028	0.007	0.02	277	5	1.2
05...	<0.001	0.13	0.023	0.005	0.02	133	3	0.58
13...	0.001	0.14	0.023	0.006	0.02	174	5	0.67
18...	0.003	0.14	0.019	0.004	0.01	159	4	0.43
27...	0.005	0.14	0.028	0.008	0.02	193	3	0.19
27...	0.002	0.31	0.050	0.008	0.03	437	11	0.95
JUN								
03...	0.001	0.14	0.030	0.014	0.04	148	3	0.15
15...	0.003	0.10	0.033	0.008	0.03	146	2	0.06
16...	0.003	0.12	0.036	0.009	0.03	157	2	0.07
JUL								
06...	0.001	0.14	0.034	0.013	0.04	101	2	0.02
12...	0.001	0.36	0.117	0.010	0.03	2050	30	1.2
13...	--	--	--	--	--	--	--	--
22...	0.004	0.11	0.042	0.019	0.06	101	2	0.02
AUG								
18...	0.005	0.09	0.051	0.026	0.08	94	<1	<.01
SEP								
09...	0.001	0.09	0.041	0.005	0.02	63	2	0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

225

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA

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, Calif., and 7.5 mi upstream of Lake Tahoe.

DRAINAGE AREA.--34.3 mi² (corrected).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 289 ft³/s, April 17, gage height, 3.36 ft; minimum daily, 2.1 ft³/s, October 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	6.0	11	9.8	10	42	63	103	35	19	4.3	3.9
2	2.7	6.0	11	e9.8	10	38	76	92	33	16	4.1	5.3
3	2.1	6.0	9.9	e9.6	10	37	93	93	30	14	3.8	10
4	2.3	6.2	10	e10	10	35	106	92	29	13	3.8	7.7
5	2.3	6.6	9.4	e11	11	34	94	99	27	11	3.6	6.5
6	2.3	7.6	9.8	e10	11	37	87	119	25	9.7	3.4	4.5
7	2.3	8.6	10	e10	11	34	90	142	24	8.4	3.2	3.6
8	2.3	9.3	10	e11	11	33	95	164	23	7.5	3.2	3.0
9	2.3	18	10	e10	11	30	98	160	22	6.8	3.1	2.8
10	2.3	18	10	e10	11	30	96	136	19	6.8	3.4	2.5
11	2.3	13	9.7	e10	13	30	105	129	18	10	2.4	4.2
12	2.3	10	9.4	e12	13	31	97	121	18	30	2.9	8.7
13	2.4	8.9	9.0	e14	14	32	143	106	15	20	2.7	9.6
14	3.7	9.2	9.0	e12	14	34	127	100	16	17	3.7	9.1
15	2.8	11	8.7	e10	21	35	118	82	19	16	7.2	9.8
16	2.4	9.3	8.8	e9.8	20	35	100	70	22	15	8.0	13
17	2.3	13	9.0	e9.5	20	33	205	82	21	15	12	18
18	2.3	15	9.5	e9.4	18	31	167	92	20	13	18	17
19	2.4	13	e8.0	e9.4	21	31	144	83	21	11	18	14
20	2.5	16	e7.4	e9.6	33	30	139	64	19	10	11	17
21	2.5	25	e8.0	e9.4	41	30	147	50	18	8.8	12	17
22	2.6	20	e8.0	e9.4	69	29	131	42	16	8.0	13	18
23	2.8	18	9.4	9.5	62	29	124	40	16	6.8	15	18
24	2.8	17	9.4	9.8	52	29	106	43	16	6.4	14	17
25	3.7	16	8.4	10	46	29	104	49	16	6.2	11	18
26	31	15	9.1	9.8	43	32	113	47	15	5.7	12	17
27	12	16	9.6	9.5	43	35	114	48	12	5.3	11	16
28	7.4	15	9.2	9.8	43	41	123	57	12	5.0	8.6	15
29	6.8	13	9.4	9.6	43	50	144	48	14	4.9	6.2	15
30	6.2	11	9.4	9.8	---	53	134	44	21	4.6	5.0	17
31	6.0	---	9.7	10	---	52	---	39	---	4.4	5.1	---
TOTAL	132.7	376.7	289.2	313.5	735	1081	3483	2636	612	335.3	234.7	338.2
MEAN	4.28	12.6	9.33	10.1	25.3	34.9	116	85.0	20.4	10.8	7.57	11.3
MAX	31	25	11	14	69	53	205	164	35	30	18	18
MIN	2.1	6.0	7.4	9.4	10	29	63	39	12	4.4	2.4	2.5
AC-FT	263	747	574	622	1460	2140	6910	5230	1210	665	466	671

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	5.44	7.94	6.24	7.24	16.2	38.4	81.6	124	84.4	16.3	6.44	6.82
MEAN	5.44	7.94	6.24	7.24	16.2	38.4	81.6	124	84.4	16.3	6.44	6.82
MAX	6.59	12.6	9.33	10.1	25.3	41.8	116	162	162	23.9	7.57	11.3
(WY)	1991	1992	1992	1992	1992	1991	1992	1991	1991	1991	1992	1992
MIN	4.28	3.33	3.15	4.37	6.69	34.9	47.2	85.0	20.4	10.8	4.95	3.73
(WY)	1992	1991	1991	1991	1991	1992	1991	1992	1992	1992	1990	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	14784.1	10567.3	
ANNUAL MEAN	40.5	28.9	34.1
HIGHEST ANNUAL MEAN			39.4
LOWEST ANNUAL MEAN			28.9
HIGHEST DAILY MEAN	358	May 25	358
LOWEST DAILY MEAN	2.1	Oct 3	1.2
ANNUAL SEVEN-DAY MINIMUM	2.3	Oct 3	2.3
INSTANTANEOUS PEAK FLOW			289
INSTANTANEOUS PEAK STAGE			3.36
ANNUAL RUNOFF (AC-FT)	29320	20960	24730
10 PERCENT EXCEEDS	115	93	97
50 PERCENT EXCEEDS	10	13	11
90 PERCENT EXCEEDS	3.3	3.7	3.0

PYRAMID AND WINNEMUCCA LAKES BASIN

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA--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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
01...	1330	3.0	114	--	19.0	14.5	--	--	--
16...	0850	2.3	107	8.1	14.0	8.5	--	--	0.015
NOV									
05...	1304	7.2	102	--	15.5	5.5	--	--	--
07...	1130	8.9	88	8.5	19.5	6.0	--	--	0.014
DEC									
09...	1245	15	89	8.4	-0.5	1.0	--	--	0.022
11...	1320	14	88	--	--	--	--	--	--
JAN									
22...	0945	15	75	8.5	-4.0	0.5	10.7	93	0.022
FEB									
18...	1000	18	49	8.7	5.0	1.5	--	--	0.025
21...	1030	35	49	--	4.5	2.0	--	--	0.021
MAR									
12...	1300	30	62	7.7	13.5	5.0	10.2	101	0.020
25...	1045	29	65	8.4	9.0	4.5	--	--	0.017
APR									
01...	1050	59	48	8.2	11.5	4.5	11.4	112	0.019
06...	1112	92	40	--	13.5	3.5	--	--	--
06...	1245	81	42	--	17.5	5.0	--	--	0.015
13...	1310	124	38	--	15.0	6.5	--	--	0.017
17...	1430	247	23	--	9.0	6.0	--	--	0.015
21...	1110	138	28	7.7	14.0	5.5	--	--	0.015
24...	1440	87	37	7.7	16.0	8.0	--	--	0.004
27...	1530	87	33	8.1	22.0	9.5	--	--	0.015
27...	2130	127	31	--	8.0	8.0	--	--	0.012
MAY									
04...	1550	76	34	7.8	19.5	10.0	--	--	0.010
05...	1450	84	32	7.7	19.0	9.5	--	--	0.008
13...	1415	87	29	--	19.0	12.5	--	--	0.007
18...	1325	95	27	--	--	--	--	--	0.003
28...	0955	56	34	--	16.0	11.0	--	--	0.009
JUN									
03...	1215	31	45	8.1	19.5	17.0	--	--	0.011
16...	1550	21	51	--	12.5	12.0	--	--	0.011
JUL									
06...	0955	9.7	67	--	16.0	12.5	--	--	0.010
12...	1215	24	44	--	15.0	13.0	--	--	0.023
14...	0945	17	62	--	19.5	15.0	--	--	--
22...	1450	8.0	76	--	17.0	17.0	--	--	0.010
AUG									
18...	1320	19	27	7.3	19.0	20.0	6.6	92	0.010
SEP									
09...	1325	2.8	100	--	19.5	16.0	--	--	0.012

PYRAMID AND WINNEMUCCA LAKES BASIN

227

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT								
01...	--	--	--	--	--	--	--	--
16...	0.005	0.14	0.019	0.005	0.02	288	1	0.01
NOV								
05...	--	--	--	--	--	--	--	--
07...	0.006	0.13	0.016	0.006	0.02	261	<1	--
DEC								
09...	<0.004	0.07	0.011	0.004	0.01	210	<1	--
11...	--	--	--	--	--	--	--	--
JAN								
22...	0.005	0.10	0.011	0.003	0.01	153	3	0.12
FEB								
18...	<0.004	0.07	0.009	0.004	0.01	98	1	0.05
21...	<0.004	0.09	0.011	0.003	0.01	441	2	0.19
MAR								
12...	<0.004	0.08	0.011	0.005	0.01	176	1	0.08
25...	<0.004	0.11	0.011	0.004	0.01	180	1	0.08
APR								
01...	0.002	0.14	0.009	0.002	0.01	176	3	0.48
06...	--	--	--	--	--	--	--	--
06...	0.001	0.16	0.022	0.003	0.01	227	6	1.3
13...	0.004	0.25	0.031	0.003	0.01	284	16	5.4
17...	0.004	0.37	0.069	0.004	0.01	1190	67	45
21...	0.004	0.17	0.019	0.005	0.02	521	4	1.5
24...	0.002	0.17	0.012	0.003	0.01	252	3	0.70
27...	0.001	0.21	0.009	0.003	0.01	218	3	0.70
27...	0.001	0.18	0.020	0.005	0.02	336	7	2.4
MAY								
04...	0.001	0.16	0.038	0.006	0.02	250	4	0.82
05...	0.001	0.15	0.023	0.005	0.02	212	2	0.46
13...	0.001	0.15	0.017	0.003	0.01	180	4	0.94
18...	0.002	0.14	0.015	0.003	0.01	155	4	1.0
28...	0.002	0.21	0.027	0.003	0.01	305	6	0.91
JUN								
03...	0.001	0.15	0.022	0.008	0.03	203	2	0.17
16...	0.004	0.13	0.025	0.005	0.02	213	1	0.06
JUL								
06...	0.001	0.15	0.018	0.005	0.02	219	2	0.05
12...	0.002	0.61	0.248	0.006	0.02	5500	75	4.8
14...	--	--	--	--	--	--	--	--
22...	0.006	0.12	0.033	0.007	0.02	289	2	0.04
AUG								
18...	0.003	0.14	0.021	0.003	0.01	139	2	0.10
SEP								
09...	0.001	0.11	0.015	0.005	0.02	342	4	0.03

PYRAMID AND WINNEMUCCA LAKES BASIN

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA

LOCATION.--Lat 38°55'22", long 119°59'23", in NW 1/4 SE 1/4 sec.4, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, near center of bridge span on downstream side of 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 mi².

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 and crest-stage gage. Datum of gage is 6,229.04 ft above sea level. Prior to Apr. 26, 1984, at datum 2.00 ft higher.

REMARKS.--Records fair. 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, capacity 1,900 acre-ft, to South Fork American River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft³/s, Mar. 8, 1986, gage height, 9.08 ft; maximum gage height, 10.12 ft, present datum, Feb. 16, 1982; minimum daily, 0.94 ft³/s, Oct. 5, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2345	*284	*4.44				

Minimum daily, 2.1 ft³/s, Oct. 5, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	13	21	e18	16	59	75	123	38	24	5.3	7.4
2	3.7	14	22	e18	15	54	83	106	37	20	5.1	7.3
3	2.8	15	20	e18	14	53	94	107	35	18	5.1	9.4
4	2.3	16	19	17	14	50	111	104	34	16	4.5	10
5	2.1	17	18	17	14	49	101	108	31	15	4.2	9.4
6	2.3	19	18	21	14	53	92	123	27	15	4.2	8.2
7	2.1	20	19	20	14	50	92	142	28	16	3.2	7.4
8	2.2	20	18	19	15	45	97	173	26	14	2.6	7.6
9	2.2	26	17	20	14	43	101	176	24	13	2.4	8.1
10	2.4	26	18	20	14	43	96	150	23	13	2.4	7.5
11	e2.4	20	17	19	15	43	106	140	19	14	2.5	7.2
12	e2.8	17	16	18	16	46	98	134	19	33	2.7	7.5
13	e3.2	16	16	19	16	46	137	119	18	26	3.2	9.1
14	e3.3	16	16	19	16	50	125	113	18	23	3.1	8.5
15	e3.5	18	15	18	16	53	116	102	22	21	4.2	9.2
16	e3.6	17	15	19	21	51	99	83	26	17	4.4	10
17	e3.6	21	16	19	20	47	199	92	30	17	5.4	13
18	e3.6	25	16	19	19	44	220	101	26	15	7.2	15
19	3.6	24	17	17	23	43	174	98	24	14	9.3	12
20	3.6	26	e16	18	58	43	157	80	23	13	7.6	14
21	4.1	34	e17	18	65	43	160	66	20	11	5.8	12
22	4.7	30	e17	17	102	45	144	53	17	8.4	7.7	13
23	4.6	28	e17	17	91	47	133	49	16	7.8	7.8	13
24	5.6	26	e17	18	71	44	123	52	17	7.3	8.3	e14
25	9.5	25	e17	18	65	44	111	61	19	6.9	7.3	e15
26	86	25	e17	17	62	46	123	52	17	6.5	7.2	15
27	24	28	e17	17	60	49	122	50	15	6.5	7.7	14
28	11	27	e18	17	62	56	130	63	15	6.7	7.1	14
29	15	23	e18	16	61	63	147	53	16	6.1	7.0	14
30	15	22	e18	16	---	69	154	48	24	6.0	7.6	15
31	12	---	e18	16	---	71	---	45	---	5.7	7.6	---
TOTAL	250.5	654	541	560	1003	1542	3720	2966	704	435.9	169.7	326.8
MEAN	8.08	21.8	17.5	18.1	34.6	49.7	124	95.7	23.5	14.1	5.47	10.9
MAX	86	34	22	21	102	71	220	176	38	33	9.3	15
MIN	2.1	13	15	16	14	43	75	45	15	5.7	2.4	7.2
AC-FT	497	1300	1070	1110	1990	3060	7380	5880	1400	865	337	648

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

229

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.0	48.0	54.6	50.2	70.3	99.8	158	282	230	71.7	18.5	12.6
MAX	72.1	225	218	165	307	305	300	567	795	365	102	55.3
(WY)	1983	1984	1982	1974	1986	1986	1982	1982	1983	1983	1983	1983
MIN	2.60	7.36	8.07	8.00	10.5	21.2	64.0	55.3	23.5	5.10	2.02	1.39
(WY)	1989	1991	1991	1991	1991	1977	1977	1977	1992	1987	1981	1988

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1972 - 1992	
ANNUAL TOTAL	17252.0		12872.9		94.7	
ANNUAL MEAN	47.3		35.2		203	
HIGHEST ANNUAL MEAN					29.2	
LOWEST ANNUAL MEAN					2010	
HIGHEST DAILY MEAN	328	May 25	220	Apr 18	2010	Feb 16 1982
LOWEST DAILY MEAN	2.1	Oct 5	2.1	Oct 5	1.94	Oct 5 1988
ANNUAL SEVEN-DAY MINIMUM	2.2	Oct 4	2.2	Oct 4	1.0	Oct 2 1988
INSTANTANEOUS PEAK FLOW			284	Apr 17	2740	Mar 8 1986
INSTANTANEOUS PEAK STAGE			4.44	Apr 17	10.12	Feb 16 1982
ANNUAL RUNOFF (AC-FT)	34220		25530		68640	
10 PERCENT EXCEEDS	147		101		257	
50 PERCENT EXCEEDS	17		18		36	
90 PERCENT EXCEEDS	3.7		5.0		6.9	

PYRAMID AND WINNEMUCCA LAKES BASIN

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 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1992 (discontinued).

REMARKS.--Sediment samples were collected during most days where a water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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 ton, several days during most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 68 mg/L (estimated), February 22; minimum daily mean, 2 mg/L, March 8, June 1-4.

SEDIMENT LOAD: Maximum daily, 31 tons (estimated), April 17; minimum daily, 0.02 ton, October 7-9, 12.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	22.5	---
3	---	8.0	1.0	.5	---	3.5	---	---	17.5	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	16.0	---	---
7	---	---	---	---	---	---	---	14.0	---	---	---	21.0
8	---	---	.0	---	---	4.0	---	9.0	17.5	---	---	---
9	---	---	---	---	---	---	6.5	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	20.5	---
11	---	---	---	---	---	---	---	---	---	19.0	---	---
12	---	---	---	.0	---	---	5.0	8.0	13.0	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	3.0	---	---	---	---	---	---	---	---	---	---
16	---	---	---	.5	---	---	---	---	---	19.0	24.0	---
17	---	---	---	---	---	---	---	9.0	---	---	---	---
18	---	---	---	---	---	7.5	---	---	---	---	---	---
19	---	---	.5	---	---	---	3.0	---	---	21.0	---	16.0
20	---	3.0	---	---	2.0	---	---	---	---	---	---	---
21	---	---	---	---	---	---	7.5	---	21.0	---	22.0	---
22	---	---	---	---	---	5.0	---	15.0	---	---	---	---
23	6.5	---	---	---	1.0	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	22.0	---	---
25	---	---	---	---	---	---	---	11.0	16.0	---	---	14.5
26	---	---	---	.0	---	---	6.0	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	8.0	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	6.0	---	---	.5	---	7.0	---	12.0	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

231

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	3.7	6	.06	13	5	.18	21	5	.28
2	3.7	6	.06	14	4	.15	22	5	.30
3	2.8	5	.04	15	4	.16	20	5	.27
4	2.3	5	.03	16	4	.17	19	5	.26
5	2.1	5	.03	17	4	.18	18	5	.24
6	2.3	5	.03	19	4	.21	18	5	.24
7	2.1	4	.02	20	4	.22	19	5	.26
8	2.2	4	.02	20	5	.27	18	5	.24
9	2.2	4	.02	26	5	.35	17	6	.28
10	2.4	4	.03	26	5	.35	18	8	.39
11	e2.4	4	.03	20	4	.22	17	10	.46
12	e2.8	3	.02	17	4	.18	16	12	.52
13	e3.2	3	.03	16	4	.17	16	14	.60
14	e3.3	3	.03	16	4	.17	16	15	.65
15	e3.5	3	.03	18	4	.19	15	16	.65
16	e3.6	3	.03	17	4	.18	15	17	.69
17	e3.6	3	.03	21	5	.28	16	18	.78
18	e3.6	3	.03	25	5	.34	16	19	.82
19	3.6	3	.03	24	6	.39	17	20	.92
20	3.6	3	.03	26	6	.42	e16	13	.56
21	4.1	3	.03	34	7	.64	e17	9	.41
22	4.7	3	.04	30	6	.49	e17	7	.32
23	4.6	3	.04	28	5	.38	e17	6	.28
24	5.6	4	.06	26	5	.35	e17	6	.28
25	9.5	5	.13	25	5	.34	e17	6	.28
26	86	34	9.0	25	5	.34	e17	6	.28
27	24	16	1.0	28	5	.38	e17	6	.28
28	11	8	.24	27	5	.36	e18	6	.29
29	15	5	.20	23	5	.31	e18	6	.29
30	15	5	.20	22	5	.30	e18	6	.29
31	12	5	.16	---	---	---	e18	6	.29
TOTAL	250.5	---	11.73	654	---	8.67	541	---	12.70
JANUARY			FEBRUARY			MARCH			
1	e18	6	.29	16	4	.17	59	4	.64
2	e18	6	.29	15	4	.16	54	4	.58
3	e18	6	.29	14	4	.15	53	4	.57
4	17	6	.28	14	4	.15	50	4	.54
5	17	6	.28	14	4	.15	49	3	.40
6	21	6	.34	14	4	.15	53	3	.43
7	20	5	.27	14	4	.15	50	3	.40
8	19	5	.26	15	4	.16	45	2	.24
9	20	4	.22	14	4	.15	43	3	.35
10	20	4	.22	14	4	.15	43	3	.35
11	19	3	.15	15	4	.16	43	3	.35
12	18	3	.15	16	4	.17	46	4	.50
13	19	3	.15	16	4	.17	46	4	.50
14	19	3	.15	16	4	.17	50	4	.54
15	18	3	.15	16	4	.17	53	4	.57
16	19	3	.15	21	4	.23	51	4	.55
17	19	3	.15	20	4	.22	47	4	.51
18	19	3	.15	19	4	.21	44	4	.48
19	17	3	.14	23	5	.31	43	5	.58
20	18	3	.15	58	36	6.1	43	5	.58
21	18	3	.15	65	37	6.5	43	5	.58
22	17	3	.14	102	68	19	45	5	.61
23	17	3	.14	91	30	7.4	47	5	.63
24	18	3	.15	71	15	2.9	44	5	.59
25	18	3	.15	65	8	1.4	44	5	.59
26	17	3	.14	62	5	.84	46	5	.62
27	17	3	.14	60	4	.65	49	6	.79
28	17	3	.14	62	4	.67	56	6	.91
29	16	4	.17	61	4	.66	63	6	1.0
30	16	4	.17	---	---	---	69	6	1.1
31	16	4	.17	---	---	---	71	6	1.2
TOTAL	560	---	5.89	1003	---	49.47	1542	---	18.28

e Estimated.

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	75	6	1.2	123	13	4.3	38	2	.21
2	83	8	1.8	106	11	3.1	37	2	.20
3	94	13	3.3	107	11	3.2	35	2	.19
4	111	17	5.1	104	10	2.8	34	2	.18
5	101	13	3.5	108	11	3.2	31	3	.25
6	92	9	2.2	123	12	4.0	27	4	.29
7	92	8	2.0	142	13	5.0	28	5	.38
8	97	9	2.4	173	18	8.4	26	6	.42
9	101	14	3.8	176	18	8.6	24	5	.32
10	96	12	3.1	150	9	3.6	23	5	.31
11	106	16	4.6	140	8	3.0	19	5	.26
12	98	7	1.9	134	7	2.5	19	5	.26
13	137	45	17	119	6	1.9	18	5	.24
14	125	36	12	113	5	1.5	18	5	.24
15	116	25	7.8	102	5	1.4	22	8	.48
16	99	14	3.7	83	4	.90	26	9	.63
17	199	50	31	92	9	2.2	30	10	.81
18	220	39	23	101	8	2.2	26	8	.56
19	174	20	9.4	98	7	1.9	24	7	.45
20	157	15	6.4	80	6	1.3	23	7	.43
21	160	16	6.9	66	5	.89	20	7	.38
22	144	13	5.1	53	5	.72	17	6	.28
23	133	6	2.2	49	4	.53	16	6	.26
24	123	8	2.7	52	5	.70	17	6	.28
25	111	14	4.2	61	4	.66	19	6	.31
26	123	15	5.0	52	4	.56	17	5	.23
27	122	15	4.9	50	4	.54	15	5	.20
28	130	17	6.0	63	7	1.2	15	5	.20
29	147	18	7.1	53	4	.57	16	6	.26
30	154	21	8.7	48	3	.39	24	10	.65
31	---	---	---	45	3	.36	---	---	---
TOTAL	3720	---	198.0	2966	---	72.12	704	---	10.16
JULY				AUGUST			SEPTEMBER		
1	24	9	.58	5.3	14	.20	7.4	8	.16
2	20	8	.43	5.1	14	.19	7.3	8	.16
3	18	7	.34	5.1	14	.19	9.4	8	.20
4	16	7	.30	4.5	14	.17	10	8	.22
5	15	6	.24	4.2	14	.16	9.4	8	.20
6	15	6	.24	4.2	14	.16	8.2	8	.18
7	16	7	.30	3.2	15	.13	7.4	8	.16
8	14	7	.26	2.6	15	.11	7.6	8	.16
9	13	7	.25	2.4	15	.10	8.1	8	.17
10	13	8	.28	2.4	15	.10	7.5	8	.16
11	14	9	.34	2.5	16	.11	7.2	7	.14
12	33	16	1.4	2.7	16	.12	7.5	7	.14
13	26	14	.98	3.2	17	.15	9.1	7	.17
14	23	15	.93	3.1	16	.13	8.5	6	.14
15	21	13	.74	4.2	16	.18	9.2	6	.15
16	17	13	.60	4.4	17	.20	10	6	.16
17	17	10	.46	5.4	18	.26	13	7	.25
18	15	7	.28	7.2	19	.37	15	6	.24
19	14	5	.19	9.3	19	.48	12	5	.16
20	13	7	.25	7.6	11	.23	14	6	.23
21	11	8	.24	5.8	9	.14	12	6	.19
22	8.4	8	.18	7.7	9	.19	13	7	.25
23	7.8	10	.21	7.8	9	.19	13	7	.25
24	7.3	12	.24	8.3	9	.20	e14	8	.30
25	6.9	12	.22	7.3	9	.18	e15	8	.32
26	6.5	12	.21	7.2	9	.17	15	8	.32
27	6.5	12	.21	7.7	9	.19	14	8	.30
28	6.7	13	.24	7.1	9	.17	14	8	.30
29	6.1	13	.21	7.0	9	.17	14	8	.30
30	6.0	13	.21	7.6	9	.18	15	8	.32
31	5.7	14	.22	7.6	8	.16	---	---	---
TOTAL	435.9	---	11.78	169.7	---	5.68	326.8	---	6.40
YEAR	12872.9		410.88						
e Estimated.									

PYRAMID AND WINNEMUCCA LAKES BASIN

233

10336625 FALLEN LEAF LAKE NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°54'00", long 120°04'14", in NE 1/4 SW 1/4 sec.11, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, 200 ft north of Cathedral Creek, 1.5 mi south of Fallen Leaf Dam, 2.9 mi southwest of Camp Richardson, and 3.7 mi west of South Lake Tahoe Post Office.

DRAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1968 to September 1992 (discontinued). Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,372.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Lake levels regulated by a concrete dam at the outlet constructed in 1934. Regulation is for maintenance of lake level and enhancement of fishery.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.85 ft, Jan. 13, 1980; minimum, 1.31 ft, Feb. 2, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.20 ft, Apr. 19; minimum, 2.42 ft, Feb. 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.14	2.73	2.97	2.79	2.48	2.80	2.91	4.05	3.90	3.94	3.83	3.33
2	3.13	2.72	2.96	2.79	2.47	2.78	2.98	3.96	3.91	3.96	3.81	3.32
3	3.11	2.71	2.95	2.77	2.45	2.77	3.06	3.90	3.91	3.95	3.77	3.29
4	3.09	2.69	2.95	2.75	2.44	2.76	3.16	3.84	3.92	3.94	3.74	3.27
5	3.07	2.68	2.94	2.79	2.44	2.81	3.22	3.80	3.92	3.92	3.73	3.25
6	3.03	2.67	2.90	2.78	2.44	2.80	3.26	3.80	3.92	3.89	3.73	3.23
7	3.00	2.67	2.95	2.78	2.45	2.77	3.30	3.82	3.92	3.89	3.71	3.21
8	2.97	2.67	2.94	2.77	2.44	2.75	3.35	3.84	3.92	3.88	3.68	3.20
9	2.95	2.72	2.93	2.76	2.43	2.73	3.39	3.83	3.91	3.88	3.67	3.19
10	2.92	2.75	2.92	2.75	2.43	2.71	3.43	3.80	3.90	3.87	3.65	3.17
11	2.90	2.76	2.91	2.73	2.47	2.69	3.49	3.75	3.86	3.93	3.64	3.15
12	2.88	2.76	2.91	2.73	2.48	2.69	3.60	3.72	3.82	3.98	3.64	3.13
13	2.86	2.75	2.90	2.72	2.47	2.67	3.69	3.71	3.80	3.99	3.63	3.12
14	2.84	2.74	2.89	2.71	2.51	2.68	3.75	3.69	3.80	4.01	3.62	3.09
15	2.82	2.74	2.89	2.70	2.55	2.67	3.80	3.67	3.85	4.01	3.62	3.07
16	2.78	2.72	2.88	2.69	2.59	2.67	3.84	3.70	3.85	4.03	3.61	3.05
17	2.75	2.91	2.85	2.67	2.57	2.66	4.09	3.70	3.86	4.03	3.59	3.07
18	2.72	2.91	2.91	2.66	2.58	2.65	4.19	3.68	3.86	4.02	3.58	3.06
19	2.69	2.91	2.89	2.65	2.69	2.64	4.18	3.68	3.87	4.01	3.56	3.04
20	2.65	2.95	2.89	2.64	2.76	2.63	4.14	3.69	3.87	3.99	3.55	3.03
21	2.61	2.97	2.88	2.63	2.82	2.63	4.11	3.71	3.87	3.97	3.50	3.02
22	2.56	2.99	2.87	2.62	2.87	2.63	4.06	3.72	3.87	3.95	3.44	3.00
23	2.51	2.99	2.87	2.61	2.88	2.63	4.00	3.73	3.86	3.93	3.42	2.97
24	2.47	3.00	2.86	2.59	2.87	2.63	3.96	3.75	3.91	3.93	3.41	2.93
25	2.56	3.00	2.85	2.57	2.85	2.63	3.95	3.77	3.91	3.93	3.39	2.91
26	2.87	2.99	2.84	2.56	2.83	2.65	3.97	3.78	3.91	3.91	3.37	e2.89
27	2.84	3.03	2.82	2.55	2.83	2.67	3.99	3.83	3.90	3.91	3.36	e2.87
28	2.83	3.03	2.82	2.53	2.82	2.69	4.03	3.85	3.88	3.89	3.36	e2.85
29	2.80	3.00	2.81	2.53	2.81	2.75	4.10	3.86	3.92	3.89	3.36	e2.83
30	2.77	2.99	2.81	2.51	---	2.82	4.12	3.87	3.93	3.86	3.35	e2.82
31	2.75	---	2.80	2.49	---	2.85	---	3.89	---	3.84	3.34	---
MEAN	2.83	2.84	2.89	2.67	2.61	2.71	3.70	3.79	3.88	3.94	3.57	3.08
MAX	3.14	3.03	2.97	2.79	2.88	2.85	4.19	4.05	3.93	4.03	3.83	3.33
MIN	2.47	2.67	2.80	2.49	2.43	2.63	2.91	3.67	3.80	3.84	3.34	2.82

CAL YR 1991 MEAN 3.01 MAX 4.24 MIN 1.32
WTR YR 1992 MEAN 3.21 MAX 4.19 MIN 2.43

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336626 TAYLOR CREEK NEAR CAMP RICHARDSON, CA

LOCATION.--Lat 38°55'18", long 120°03'37", in NE 1/4 NW 1/4 sec.2, T.12 N., R.17 E., El Dorado County, Hydrologic Unit 16050101, Eldorado National Forest, on left bank 0.1 mi downstream from Fallen Leaf Lake outlet and 1.4 mi southwest of Camp Richardson.

DRAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1968 to September 1992 (discontinued). Prior to October 1973, published as "near Tahoe Valley."

GAGE.--Water-stage recorder. Datum of gage is 6,361.08 ft above sea level.

REMARKS.--Records good except for discharges less than 2 ft³/s, which are fair. Flow regulated by Fallen Leaf Lake (station 10336625).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,530 ft³/s, Jan. 14, 1980, gage height, 6.33 ft; minimum daily, 0.13 ft³/s, Sept. 12, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 157 ft³/s, Apr. 30, gage height, 4.22 ft; minimum daily, 0.34 ft³/s, Sept. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.8	10	12	11	e12	35	12	151	6.7	3.1	3.6	2.2
2	4.5	9.9	12	11	e12	34	13	137	4.9	3.4	3.7	2.8
3	7.1	9.9	12	11	e12	33	14	125	4.6	3.6	3.7	2.8
4	e8.9	9.9	12	11	e12	32	17	117	3.9	3.3	3.7	2.7
5	e11	10	12	11	e12	32	19	107	3.7	3.4	3.4	2.4
6	e14	9.9	12	11	e12	36	21	95	3.5	3.4	3.2	2.2
7	e11	10	12	11	e12	34	22	92	3.4	3.3	3.0	2.1
8	e7.9	10	12	11	e12	32	25	94	3.1	3.5	3.3	2.2
9	e7.9	11	12	11	e12	31	27	94	2.3	3.6	3.1	2.3
10	e8.2	11	12	11	e12	30	22	92	1.4	3.8	3.0	2.5
11	e8.5	11	12	11	e12	28	20	85	6.6	3.8	2.8	2.6
12	e8.5	11	12	11	e12	28	22	74	9.9	3.7	2.9	2.3
13	e8.5	11	12	11	e14	27	28	65	9.3	4.0	2.9	2.2
14	e10	11	11	11	e18	27	32	63	7.9	3.3	2.9	1.5
15	e13	11	11	11	21	27	35	57	7.6	2.3	2.8	.34
16	e13	11	11	11	22	27	38	43	6.9	1.8	2.5	.37
17	e13	11	11	11	23	26	48	42	6.6	2.7	2.5	.39
18	e13	11	12	11	22	26	80	37	6.3	3.5	2.2	1.2
19	13	11	12	11	24	23	109	29	6.9	2.8	2.3	1.8
20	16	12	11	11	32	21	123	18	4.7	2.6	2.5	1.7
21	15	12	11	11	35	21	117	9.9	3.8	2.7	2.6	1.5
22	11	12	11	11	39	21	111	9.7	3.1	2.6	2.5	2.6
23	9.8	12	11	11	41	21	104	9.6	2.3	2.5	2.3	3.7
24	9.6	12	11	11	41	21	98	9.5	2.2	2.7	2.3	3.6
25	9.6	12	11	e12	39	15	94	9.5	3.2	2.7	2.5	4.8
26	11	12	11	e12	38	12	95	8.9	3.8	2.8	2.7	4.1
27	12	13	11	e12	37	12	99	8.9	3.3	3.7	2.5	3.0
28	12	13	11	e12	37	12	103	8.6	3.3	4.2	2.7	4.9
29	11	13	11	e12	36	12	111	8.7	3.2	3.8	2.3	6.6
30	10	12	11	e12	---	12	126	8.6	3.1	3.8	2.1	6.3
31	10	---	11	e12	---	12	---	8.5	---	3.7	1.9	---
TOTAL	321.8	335.6	356	348	663	760	1785	1717.4	141.5	100.1	86.4	79.70
MEAN	10.4	11.2	11.5	11.2	22.9	24.5	59.5	55.4	4.72	3.23	2.79	2.66
MAX	16	13	12	12	41	36	126	151	9.9	4.2	3.7	6.6
MIN	3.8	9.9	11	11	12	12	12	8.5	1.4	1.8	1.9	.34
AC-FT	638	666	706	690	1320	1510	3540	3410	281	199	171	158

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.8	32.3	30.8	41.0	32.5	34.5	53.0	122	105	29.1	9.35	7.23
MAX	72.7	144	148	200	154	124	139	238	309	166	71.3	35.5
(WY)	1983	1974	1982	1980	1986	1986	1989	1969	1983	1983	1983	1982
MIN	4.28	5.00	2.72	2.99	2.59	3.59	2.40	35.6	4.72	.89	1.54	1.03
(WY)	1970	1975	1977	1977	1991	1977	1977	1992	1992	1979	1977	1979

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1969 - 1992

ANNUAL TOTAL	8600.42	6694.50	
ANNUAL MEAN	23.6	18.3	42.7
HIGHEST ANNUAL MEAN			88.4
LOWEST ANNUAL MEAN			9.58
HIGHEST DAILY MEAN	185	May 27	1220
LOWEST DAILY MEAN	.45	Jan 28	.13
ANNUAL SEVEN-DAY MINIMUM	1.2	Jan 25	.25
INSTANTANEOUS PEAK FLOW			1530
INSTANTANEOUS PEAK STAGE			6.33
ANNUAL RUNOFF (AC-FT)	17060	13280	30950
10 PERCENT EXCEEDS	74	38	117
50 PERCENT EXCEEDS	11	11	18
90 PERCENT EXCEEDS	2.7	2.5	3.2

PYRAMID AND WINNEMUCCA LAKES BASIN

235

10336645 GENERAL CREEK NEAR MEEKS BAY, CA

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,250.38 ft above sea level.

REMARKS.--Records good except for estimated daily discharges and discharges less than 0.5 ft³/s, which are fair. No known diversion or regulation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s, Dec. 20, 1981, gage height, 5.43 ft, from rating curve extended above 180 ft³/s on basis of computation of flow through culvert; minimum daily, 0.31 ft³/s, Sept. 11, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	2015	*99	*2.03				

Minimum daily, 0.31 ft³/s, Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	.87	1.2	.93	1.4	8.8	31	22	1.7	2.9	.47	.47
2	.62	.87	1.1	.94	1.4	8.4	34	18	1.6	2.3	.50	.42
3	.62	.87	1.1	.98	1.4	8.0	39	16	1.6	1.9	.49	.42
4	.60	.91	1.1	.88	1.3	8.1	43	14	1.4	1.6	.47	.44
5	.60	.98	1.1	1.1	1.4	8.0	36	13	1.3	1.3	.49	.40
6	.64	.98	.98	1.1	1.4	7.9	26	13	1.2	1.1	.50	.39
7	.63	.92	1.1	.98	1.6	7.3	25	12	1.1	1.1	.54	.37
8	.65	.89	1.0	.96	1.7	7.0	29	12	1.1	.98	.58	.38
9	.65	1.1	1.0	1.0	1.8	6.9	31	10	1.1	.94	.64	.37
10	.64	.95	.98	1.1	1.8	6.9	29	8.4	.98	.87	.64	.34
11	.67	.87	.98	1.0	1.8	6.9	31	7.2	.98	.87	.64	.31
12	.69	.87	1.0	1.0	1.8	7.4	33	6.4	.98	.87	.65	.32
13	.69	.87	1.0	1.1	1.8	8.3	52	6.1	.98	.87	.81	.33
14	.68	.87	1.0	1.2	1.9	9.4	45	5.7	1.2	.87	.85	.32
15	.69	.96	.93	1.2	e2.1	9.4	38	5.3	2.1	.87	.90	.33
16	.64	.98	.87	1.2	e2.3	8.9	31	4.9	3.2	.87	.80	.33
17	.61	e1.1	.87	1.2	e2.5	8.1	70	5.1	5.0	.85	.81	.37
18	.66	e1.3	.90	1.3	2.5	7.8	53	4.5	8.0	.78	.73	.56
19	.69	1.1	1.1	1.1	2.3	7.6	35	4.2	5.9	.78	.68	.46
20	.72	1.5	1.1	1.1	6.3	7.6	35	4.2	4.1	.73	.64	.44
21	.71	1.6	1.5	1.2	8.9	7.7	40	4.2	3.3	.64	.61	.43
22	.77	1.3	1.2	1.2	12	8.1	32	3.8	2.6	.62	.59	.43
23	.79	1.1	.97	1.4	11	8.2	25	3.4	2.1	.67	.53	.42
24	.85	1.0	.98	1.8	8.8	8.1	26	3.1	1.9	.59	.55	.38
25	1.1	.93	.98	1.9	8.0	8.7	32	2.9	2.0	.55	.50	.39
26	5.3	1.0	.98	1.7	8.5	10	36	2.5	2.0	.55	.50	.40
27	1.5	1.7	.98	1.4	8.3	12	33	2.3	1.7	.56	.46	.40
28	1.0	1.8	.89	1.4	8.8	16	33	2.4	1.4	.56	.50	.38
29	.93	1.5	.98	1.2	9.1	19	36	2.2	1.4	.54	.47	.37
30	.94	1.4	.98	1.2	---	20	30	1.9	3.0	.55	.56	.39
31	.87	---	.97	1.3	---	21	---	1.9	---	.54	.53	---
TOTAL	27.77	33.09	31.82	37.07	123.9	297.5	1069	222.6	66.92	29.72	18.63	11.76
MEAN	.90	1.10	1.03	1.20	4.27	9.60	35.6	7.18	2.23	.96	.60	.39
MAX	5.3	1.8	1.5	1.9	12	21	70	22	8.0	2.9	.90	.56
MIN	.60	.87	.87	.88	1.3	6.9	25	1.9	.98	.54	.46	.31
AC-FT	55	66	63	74	246	590	2120	442	133	59	37	23

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.68	9.98	10.5	6.43	13.4	17.5	37.9	52.6	28.1	5.98	1.27	1.35
MAX	15.5	45.4	58.7	19.4	64.2	60.1	70.4	111	158	49.6	4.72	4.36
(WY)	1983	1982	1982	1984	1986	1986	1989	1982	1983	1983	1983	1983
MIN	.76	1.01	.89	.90	.99	5.88	15.9	7.18	2.23	.73	.58	.39
(WY)	1991	1991	1991	1991	1991	1987	1991	1992	1992	1981	1988	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1981 - 1992
ANNUAL TOTAL	3021.48	1969.78	
ANNUAL MEAN	8.28	5.38	15.6
HIGHEST ANNUAL MEAN			34.7
LOWEST ANNUAL MEAN			4.96
HIGHEST DAILY MEAN	95	70	588
LOWEST DAILY MEAN	.36	.31	.31
ANNUAL SEVEN-DAY MINIMUM	.39	.33	.33
INSTANTANEOUS PEAK FLOW		99	765
INSTANTANEOUS PEAK STAGE		2.03	5.43
ANNUAL RUNOFF (AC-FT)	5990	3910	11320
10 PERCENT EXCEEDS	28	16	44
50 PERCENT EXCEEDS	1.0	1.1	3.2
90 PERCENT EXCEEDS	.60	.50	.76

237

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 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1980 to September 1992 (discontinued).

REMARKS.--Sediment samples were collected during most days where a water temperature is published.

COOPERATION.--Selected sediment samples and water-temperature observations provided by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 266 mg/L, December 20, 1981; minimum daily mean, 0 mg/L, many days during most years.

SEDIMENT LOAD: Maximum daily, 457 tons, December 20, 1981; minimum daily, 0 ton, many days during most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 14 mg/L, April 17; minimum daily mean, 1 mg/L, many days.

SEDIMENT LOAD: Maximum daily, 3.0 tons, April 17; minimum daily, 0 ton, many days.

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.62	1	.00	.87	1	.00	1.2	1	.00
2	.62	2	.00	.87	1	.00	1.1	1	.00
3	.62	2	.00	.87	1	.00	1.1	1	.00
4	.60	2	.00	.91	2	.00	1.1	1	.00
5	.60	1	.00	.98	2	.00	1.1	1	.00
6	.64	1	.00	.98	2	.00	.98	1	.00
7	.63	1	.00	.92	2	.00	1.1	1	.00
8	.65	1	.00	.89	2	.00	1.0	1	.00
9	.65	1	.00	1.1	2	.00	1.0	1	.00
10	.64	1	.00	.95	2	.00	.98	1	.00
11	.67	1	.00	.87	2	.00	.98	1	.00
12	.69	1	.00	.87	1	.00	1.0	2	.00
13	.69	1	.00	.87	1	.00	1.0	2	.00
14	.69	1	.00	.87	1	.00	1.0	2	.00
15	.69	1	.00	.96	1	.00	.93	2	.00
16	.64	1	.00	.98	1	.00	.87	2	.00
17	.61	1	.00	e1.1	1	.00	.87	2	.00
18	.66	1	.00	e1.3	1	.00	.90	2	.00
19	.69	1	.00	1.1	1	.00	1.1	1	.00
20	.72	1	.00	1.5	2	.01	1.1	1	.00
21	.71	1	.00	1.6	1	.00	1.5	1	.00
22	.77	1	.00	1.3	1	.00	1.2	1	.00
23	.79	1	.00	1.1	1	.00	.97	1	.00
24	.85	1	.00	1.0	1	.00	.98	1	.00
25	1.1	1	.01	.93	1	.00	.98	1	.00
26	5.3	11	.18	1.0	1	.00	.98	1	.00
27	1.5	3	.01	1.7	2	.01	.98	1	.00
28	1.0	2	.01	1.8	2	.01	.89	2	.00
29	.93	1	.00	1.5	2	.01	.98	2	.00
30	.94	1	.00	1.4	1	.00	.98	2	.00
31	.87	1	.00	---	---	---	.97	2	.00
TOTAL	27.77	---	0.21	33.09	---	0.04	31.82	---	0.00
JANUARY			FEBRUARY			MARCH			
1	.93	2	.00	1.4	2	.01	8.8	1	.03
2	.94	2	.00	1.4	2	.01	8.4	2	.03
3	.98	2	.00	1.4	2	.01	8.0	2	.04
4	.88	2	.00	1.3	2	.01	8.1	2	.04
5	1.1	2	.01	1.4	2	.01	8.0	2	.04
6	1.1	2	.01	1.4	2	.01	7.9	2	.04
7	.98	2	.00	1.6	2	.01	7.3	2	.03
8	.96	2	.00	1.7	1	.01	7.0	2	.03
9	1.0	2	.01	1.8	1	.00	6.9	2	.03
10	1.1	2	.01	1.8	1	.00	6.9	1	.03
11	1.0	2	.00	1.8	1	.00	6.9	1	.03
12	1.0	2	.01	1.8	1	.00	7.4	1	.03
13	1.1	2	.00	1.8	1	.00	8.3	1	.03
14	1.2	1	.00	1.9	1	.00	9.4	1	.03
15	1.2	1	.00	e2.1	1	.01	9.4	1	.03
16	1.2	1	.00	e2.3	1	.01	8.9	1	.02
17	1.2	1	.00	e2.5	1	.01	8.1	1	.02
18	1.3	1	.00	2.5	1	.01	7.8	1	.02
19	1.1	1	.00	2.3	1	.01	7.6	1	.02
20	1.1	1	.00	6.3	5	.09	7.6	1	.03
21	1.2	1	.00	8.9	4	.10	7.7	1	.03
22	1.2	1	.00	12	3	.09	8.1	2	.03
23	1.4	1	.00	11	2	.05	8.2	2	.04
24	1.8	1	.00	8.8	1	.03	8.1	2	.04
25	1.9	1	.01	8.0	1	.03	8.7	2	.05
26	1.7	1	.00	8.5	1	.02	10	2	.05
27	1.4	1	.00	8.3	1	.02	12	2	.08
28	1.4	1	.00	8.8	1	.03	16	3	.12
29	1.2	1	.00	9.1	1	.03	19	3	.16
30	1.2	1	.00	---	---	---	20	4	.22
31	1.3	2	.00	---	---	---	21	3	.17
TOTAL	37.07	---	0.06	123.9	---	0.62	297.5	---	1.59

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

239

10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	31	4	.37	22	2	.11	1.7	1	.01
2	34	4	.40	18	2	.08	1.6	1	.01
3	39	4	.49	16	1	.06	1.6	1	.00
4	43	4	.48	14	1	.05	1.4	1	.00
5	36	5	.45	13	1	.04	1.3	1	.00
6	26	4	.29	13	2	.08	1.2	2	.01
7	25	3	.20	12	2	.07	1.1	3	.01
8	29	3	.26	12	2	.07	1.1	5	.02
9	31	3	.27	10	3	.07	1.1	6	.02
10	29	2	.18	8.4	3	.06	.98	6	.02
11	31	2	.21	7.2	3	.06	.98	6	.02
12	33	2	.22	6.4	4	.06	.98	6	.02
13	52	7	.95	6.1	4	.06	.98	6	.02
14	45	5	.62	5.7	4	.07	1.2	6	.02
15	38	3	.33	5.3	4	.06	2.1	5	.02
16	31	2	.18	4.9	4	.05	3.2	3	.03
17	70	14	3.0	5.1	4	.05	5.0	4	.05
18	53	4	.69	4.5	4	.05	8.0	4	.08
19	35	2	.23	4.2	4	.05	5.9	4	.07
20	35	4	.37	4.2	4	.04	4.1	5	.05
21	40	5	.57	4.2	3	.04	3.3	5	.05
22	32	4	.36	3.8	3	.03	2.6	5	.04
23	25	3	.20	3.4	3	.03	2.1	6	.03
24	26	2	.17	3.1	3	.02	1.9	6	.03
25	32	3	.27	2.9	2	.02	2.0	5	.03
26	36	3	.35	2.5	2	.02	2.0	5	.03
27	33	3	.26	2.3	2	.01	1.7	5	.02
28	33	3	.26	2.4	2	.01	1.4	4	.02
29	36	2	.19	2.2	2	.01	1.4	4	.02
30	30	1	.09	1.9	2	.01	3.0	7	.05
31	---	---	---	1.9	1	.01	---	---	---
TOTAL	1069	---	12.91	222.6	---	1.45	66.92	---	0.80
JULY			AUGUST			SEPTEMBER			
1	2.9	5	.04	.47	1	.00	.47	1	.00
2	2.3	3	.02	.50	1	.00	.42	1	.00
3	1.9	3	.01	.49	1	.00	.42	1	.00
4	1.6	2	.01	.47	1	.00	.44	1	.00
5	1.3	1	.00	.49	1	.00	.40	1	.00
6	1.1	2	.00	.50	1	.00	.39	1	.00
7	1.1	2	.00	.54	1	.00	.37	1	.00
8	.98	2	.00	.58	1	.00	.38	1	.00
9	.94	2	.00	.64	1	.00	.37	1	.00
10	.87	2	.00	.64	1	.00	.34	1	.00
11	.87	1	.00	.64	1	.00	.31	1	.00
12	.87	1	.00	.65	1	.00	.32	1	.00
13	.87	1	.00	.81	1	.00	.33	1	.00
14	.87	1	.00	.85	1	.00	.32	1	.00
15	.87	1	.00	.90	1	.00	.33	1	.00
16	.87	1	.00	.80	1	.00	.33	1	.00
17	.85	1	.00	.81	1	.00	.37	1	.00
18	.78	1	.00	.73	1	.00	.56	1	.00
19	.78	1	.00	.68	1	.00	.46	1	.00
20	.73	1	.00	.64	1	.00	.44	1	.00
21	.64	1	.00	.61	1	.00	.43	1	.00
22	.62	1	.00	.59	1	.00	.43	1	.00
23	.67	1	.00	.53	1	.00	.42	1	.00
24	.59	1	.00	.55	1	.00	.38	1	.00
25	.55	1	.00	.50	1	.00	.39	1	.00
26	.55	1	.00	.50	1	.00	.40	1	.00
27	.56	1	.00	.46	1	.00	.40	1	.00
28	.56	1	.00	.50	1	.00	.38	1	.00
29	.54	1	.00	.47	1	.00	.37	1	.00
30	.55	1	.00	.56	1	.00	.39	1	.00
31	.54	1	.00	.53	1	.00	---	---	---
TOTAL	29.72	---	0.08	18.63	---	0.00	11.76	---	0.00
YEAR	1969.78		17.76						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA

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 mi².

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 sea level. Oct. 1, 1960, to Sept. 30, 1964, at datum 10.25 ft lower and Oct. 1, 1964, to Aug. 27, 1970, at datum 12 ft lower, at site 400 ft downstream.

REMARKS.--Records good except for estimated daily discharges, which are fair. No known diversion or regulation upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s, Dec. 22 or 24, 1964, on basis of computation of flow through culvert; maximum gage height, 9.90 ft, site and datum then in use, Dec. 22, 1964; minimum discharge, 0.30 ft³/s, Sept. 19, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	1900	*159	*2.26				
Minimum daily, 1.0 ft ³ /s, Sept. 25, 28-30.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.5	e5.2	e3.8	3.9	20	46	59	10	7.4	1.9	1.5
2	1.8	2.3	5.1	e3.8	3.9	19	45	54	9.9	6.1	1.8	1.4
3	1.8	2.4	4.9	3.8	3.9	17	52	51	9.2	5.3	1.9	1.3
4	1.9	2.3	4.7	3.8	3.8	18	56	52	8.5	4.6	1.8	1.3
5	1.9	2.1	e4.6	e3.8	3.8	18	49	56	8.1	4.3	1.8	1.3
6	1.9	2.3	4.5	3.8	3.9	17	41	64	7.6	3.9	1.8	1.3
7	2.0	3.0	e4.5	3.8	3.9	16	40	71	7.3	3.8	1.8	1.2
8	2.0	4.1	4.5	e3.8	4.4	15	43	66	6.8	3.5	1.8	1.2
9	2.2	12	e4.1	e3.7	4.5	15	44	58	6.5	3.2	1.8	1.3
10	2.0	9.7	e3.9	3.7	4.4	15	41	46	6.0	3.1	1.8	1.3
11	1.9	7.3	e3.7	e3.7	e4.8	16	43	44	5.7	3.3	1.7	1.3
12	2.0	5.8	e3.6	3.7	4.4	17	48	42	5.5	3.4	1.8	1.2
13	1.9	5.0	e3.6	e3.7	4.5	19	69	40	5.8	3.7	1.8	1.2
14	1.9	4.7	e3.6	e3.7	4.1	22	60	38	6.2	3.4	1.7	1.1
15	1.9	4.4	e3.5	3.6	e5.0	21	53	34	8.9	3.1	1.7	1.2
16	2.0	4.1	e3.5	3.6	e5.0	20	48	32	9.4	3.1	1.6	1.2
17	2.0	e4.2	e3.5	3.3	e4.8	17	115	31	10	3.3	1.6	1.1
18	2.1	e4.3	e3.5	3.3	4.4	17	91	28	9.6	3.1	1.6	1.4
19	2.2	4.2	e3.5	e3.4	6.5	16	69	27	8.2	2.6	1.5	1.3
20	2.0	e5.5	e3.5	e3.4	18	16	66	25	6.9	2.5	1.5	1.3
21	1.9	e5.7	e3.5	3.5	20	16	69	22	6.1	2.5	1.5	1.2
22	2.0	e5.7	e3.5	e3.5	34	17	59	20	5.6	2.4	1.5	1.1
23	2.2	e5.5	e3.5	e3.5	25	17	51	18	5.3	2.3	1.5	1.2
24	2.2	e5.3	e3.5	e3.5	21	17	51	17	5.7	2.3	1.5	1.1
25	3.0	e5.1	e3.5	3.5	19	17	59	17	6.1	2.2	1.5	1.0
26	19	e5.0	e3.5	3.4	20	19	67	17	5.4	2.2	1.5	1.1
27	5.7	8.6	e3.5	3.4	21	23	69	16	4.9	2.1	1.4	1.1
28	3.0	7.3	e3.6	3.5	22	27	75	15	4.6	2.1	1.3	1.0
29	2.7	e6.3	e3.6	e3.8	22	32	89	13	5.3	2.0	1.4	1.0
30	2.6	e5.5	e3.7	e3.8	---	33	74	12	11	2.0	1.5	1.0
31	2.5	---	e3.7	3.8	---	36	---	11	---	1.8	1.6	---
TOTAL	86.0	152.2	120.6	112.4	305.9	605	1782	1096	216.1	100.6	50.9	36.2
MEAN	2.77	5.07	3.89	3.63	10.5	19.5	59.4	35.4	7.20	3.25	1.64	1.21
MAX	19	12	5.2	3.8	34	36	115	71	11	7.4	1.9	1.5
MIN	1.8	2.1	3.5	3.3	3.8	15	40	11	4.6	1.8	1.3	1.0
AC-FT	171	302	239	223	607	1200	3530	2170	429	200	101	72

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

241

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.47	14.4	21.1	22.7	21.2	28.9	59.2	125	96.6	25.7	5.35	2.93
MAX	28.1	94.8	157	166	116	122	124	312	320	149	36.1	10.3
(WY)	1963	1984	1965	1970	1986	1986	1989	1969	1983	1983	1983	1982
MIN	1.31	1.68	1.90	2.00	2.27	3.82	13.6	29.7	7.20	3.11	1.53	1.21
(WY)	1978	1978	1977	1991	1991	1977	1975	1977	1992	1987	1981	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1961 - 1992	
ANNUAL TOTAL	6834.3		4663.9		35.7	
ANNUAL MEAN	18.7		12.7		73.4	
HIGHEST ANNUAL MEAN					8.71	
LOWEST ANNUAL MEAN					1370	
HIGHEST DAILY MEAN	150	Mar 4	115	Apr 17	1370	Dec 20 1981
LOWEST DAILY MEAN	1.7	Sep 13	1.0	Sep 25	.50	Sep 24 1968
ANNUAL SEVEN-DAY MINIMUM	1.8	Sep 19	1.0	Sep 24	.54	Sep 23 1968
INSTANTANEOUS PEAK FLOW			159	Apr 17	2100	Dec 22 1964
INSTANTANEOUS PEAK STAGE			2.26	Apr 17	9.90	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	13560		9250		25880	
10 PERCENT EXCEEDS	62		43		102	
50 PERCENT EXCEEDS	4.1		4.0		9.9	
90 PERCENT EXCEEDS	2.0		1.5		2.2	

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 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992 (discontinued).

REMARKS.--Sediment samples were collected during most days where a water temperature is published.

COOPERATION.--Selected sediment samples and water-temperature observations provided by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,200 mg/L, January 13, 1980; minimum daily mean, 0 mg/L, many days during most years.

SEDIMENT LOAD: Maximum daily, 2,710 tons, March 8, 1986; minimum daily, 0 ton, many days during most years.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 80 mg/L, April 17; minimum daily mean, 0 mg/L, September 8-17.

SEDIMENT LOAD: Maximum daily, 27 tons, April 17; minimum daily, 0 ton, many days.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

[illegible]

PYRAMID AND WINNEMUCCA LAKES BASIN

243

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	1.8	2	.01	2.5	3	.02	e5.2	2	.03
2	1.8	1	.00	2.3	3	.02	5.1	2	.03
3	1.8	1	.01	2.4	2	.02	4.9	2	.03
4	1.9	2	.01	2.3	2	.01	4.7	2	.02
5	1.9	2	.01	2.1	2	.01	e4.6	2	.02
6	1.9	2	.01	2.3	2	.01	4.5	2	.02
7	2.0	3	.02	3.0	2	.02	e4.5	2	.03
8	2.0	3	.02	4.1	3	.05	4.5	2	.02
9	2.2	3	.02	12	12	.42	e4.1	2	.02
10	2.0	3	.02	9.7	5	.14	e3.9	2	.02
11	1.9	3	.02	7.3	3	.05	e3.7	2	.02
12	2.0	3	.02	5.8	2	.03	e3.6	2	.02
13	1.9	3	.02	5.0	2	.02	e3.6	2	.02
14	1.9	3	.02	4.7	2	.02	e3.6	2	.02
15	1.9	4	.02	4.4	1	.02	e3.5	2	.02
16	2.0	4	.02	4.1	1	.02	e3.5	2	.02
17	2.0	4	.02	e4.2	2	.02	e3.5	2	.02
18	2.1	4	.02	e4.3	2	.02	e3.5	2	.02
19	2.2	4	.02	4.2	1	.01	e3.5	1	.01
20	2.0	4	.02	e5.5	3	.04	e3.5	1	.01
21	1.9	4	.02	e5.7	2	.03	e3.5	1	.01
22	2.0	4	.02	e5.7	2	.03	e3.5	1	.01
23	2.2	4	.02	e5.5	2	.01	e3.5	1	.01
24	2.2	4	.02	e5.3	1	.03	e3.5	1	.01
25	3.0	6	.06	e5.1	1	.01	e3.5	1	.01
26	19	23	1.3	e5.0	1	.01	e3.5	1	.01
27	5.7	10	.18	8.6	3	.07	e3.5	1	.01
28	3.0	4	.04	7.3	2	.05	e3.6	1	.01
29	2.7	3	.02	e6.3	2	.03	e3.6	1	.01
30	2.6	3	.02	e5.5	2	.03	e3.7	1	.01
31	2.5	3	.02	---	---	---	e3.7	1	.01
TOTAL	86.0	---	2.05	152.2	---	1.27	120.6	---	0.53
JANUARY			FEBRUARY			MARCH			
1	e3.8	1	.01	3.9	1	.01	20	2	.13
2	e3.8	1	.01	3.9	1	.01	19	2	.12
3	3.8	1	.01	3.9	1	.01	17	2	.10
4	3.8	1	.01	3.8	1	.01	18	2	.10
5	e3.8	1	.01	3.8	1	.01	18	2	.10
6	3.8	1	.01	3.9	1	.01	17	2	.09
7	3.8	1	.01	3.9	1	.01	16	2	.08
8	e3.8	2	.02	4.4	1	.01	15	2	.08
9	e3.7	2	.02	4.5	1	.01	15	2	.08
10	3.7	2	.02	4.4	1	.01	15	2	.08
11	e3.7	2	.02	e4.8	1	.01	16	2	.08
12	3.7	2	.02	4.4	1	.01	17	2	.09
13	e3.7	2	.02	4.5	1	.02	19	2	.10
14	e3.7	1	.01	4.1	1	.02	22	2	.12
15	3.6	1	.01	e5.0	2	.03	21	2	.11
16	3.6	1	.01	e5.0	2	.03	20	2	.11
17	3.3	1	.01	e4.8	2	.03	17	2	.09
18	3.3	1	.01	4.4	2	.03	17	2	.09
19	e3.4	1	.01	6.5	6	.12	16	2	.10
20	e3.4	1	.01	18	13	.65	16	2	.10
21	3.5	1	.01	20	8	.48	16	2	.11
22	e3.5	1	.01	34	20	1.8	17	3	.12
23	e3.5	1	.01	25	8	.55	17	3	.12
24	e3.5	1	.01	21	4	.22	17	3	.13
25	3.5	1	.01	19	3	.16	17	3	.14
26	3.4	1	.01	20	3	.16	19	3	.16
27	3.4	1	.01	21	3	.16	23	3	.21
28	3.5	1	.01	22	3	.16	27	6	.41
29	e3.8	1	.01	22	3	.15	32	7	.61
30	e3.8	1	.01	---	---	---	33	7	.62
31	3.8	1	.01	---	---	---	36	12	1.2
TOTAL	112.4	---	0.37	305.9	---	4.89	605	---	5.78

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	46	20	2.6	59	6	1.0	10	4	.11
2	45	17	2.2	54	6	.81	9.9	4	.11
3	52	20	3.0	51	5	.70	9.2	4	.10
4	56	18	2.8	52	5	.65	8.5	4	.09
5	49	12	1.7	56	4	.63	8.1	4	.08
6	41	8	.88	64	9	1.6	7.6	3	.06
7	40	7	.80	71	7	1.3	7.3	3	.05
8	43	6	.76	66	6	1.0	6.8	2	.04
9	44	4	.47	58	5	.86	6.5	2	.03
10	41	4	.47	46	5	.66	6.0	2	.03
11	43	4	.50	44	5	.59	5.7	2	.03
12	48	6	.85	42	4	.46	5.5	2	.03
13	69	10	1.9	40	3	.35	5.8	2	.03
14	60	8	1.3	38	3	.35	6.2	2	.04
15	53	6	.91	34	4	.37	8.9	4	.09
16	48	7	.86	32	4	.37	9.4	4	.11
17	115	80	27	31	4	.37	10	5	.13
18	91	22	5.8	28	5	.36	9.6	3	.07
19	69	14	2.6	27	5	.37	8.2	3	.06
20	66	12	2.3	25	5	.34	6.9	2	.05
21	69	13	2.5	22	5	.30	6.1	2	.04
22	59	9	1.4	20	5	.27	5.6	2	.03
23	51	8	1.1	18	5	.25	5.3	2	.03
24	51	6	.87	17	5	.24	5.7	2	.03
25	59	8	1.3	17	5	.23	6.1	2	.03
26	67	8	1.6	17	5	.22	5.4	2	.03
27	69	8	1.6	16	7	.33	4.9	2	.03
28	75	8	1.8	15	8	.34	4.6	2	.02
29	89	12	3.1	13	5	.17	5.3	3	.04
30	74	8	1.7	12	4	.13	11	9	.27
31	---	---	---	11	4	.12	---	---	---
TOTAL	1782	---	76.67	1096	---	15.74	216.1	---	1.89
JULY			AUGUST			SEPTEMBER			
1	7.4	4	.09	1.9	3	.02	1.5	1	.00
2	6.1	3	.06	1.8	3	.02	1.4	1	.00
3	5.3	3	.04	1.9	3	.02	1.3	1	.00
4	4.6	3	.03	1.8	3	.01	1.3	1	.00
5	4.3	2	.03	1.8	3	.02	1.3	1	.00
6	3.9	4	.04	1.8	3	.01	1.3	1	.00
7	3.8	6	.06	1.8	2	.01	1.2	1	.00
8	3.5	6	.05	1.8	2	.01	1.2	0	.00
9	3.2	5	.05	1.8	1	.01	1.3	0	.00
10	3.1	5	.04	1.8	1	.00	1.3	0	.00
11	3.3	5	.04	1.7	1	.00	1.3	0	.00
12	3.4	5	.04	1.8	1	.00	1.2	0	.00
13	3.7	5	.05	1.8	1	.00	1.2	0	.00
14	3.4	4	.04	1.7	1	.00	1.1	0	.00
15	3.1	4	.04	1.7	1	.00	1.2	0	.00
16	3.1	4	.03	1.6	1	.00	1.2	0	.00
17	3.3	4	.03	1.6	1	.00	1.1	0	.00
18	3.1	4	.03	1.6	1	.00	1.4	1	.00
19	2.6	4	.03	1.5	1	.00	1.3	1	.00
20	2.5	4	.02	1.5	1	.00	1.3	1	.00
21	2.5	4	.02	1.5	1	.00	1.2	1	.00
22	2.4	4	.02	1.5	1	.00	1.1	1	.00
23	2.3	3	.02	1.5	1	.00	1.2	1	.00
24	2.3	3	.02	1.5	1	.00	1.1	1	.00
25	2.2	3	.02	1.5	1	.00	1.0	1	.00
26	2.2	3	.02	1.5	1	.00	1.1	1	.00
27	2.1	3	.02	1.4	1	.00	1.1	1	.00
28	2.1	3	.02	1.3	1	.00	1.0	1	.00
29	2.0	3	.02	1.4	1	.00	1.0	1	.00
30	2.0	3	.02	1.5	1	.00	1.0	1	.00
31	1.8	3	.02	1.6	1	.00	---	---	---
TOTAL	100.6	---	1.06	50.9	---	0.13	36.2	---	0.00
YEAR	4663.9		110.38						

PYRAMID AND WINNEMUCCA LAKES BASIN

245

10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA

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 mi².

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No storage or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	0700	*51	*5.78				
No flow for many days.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	e.90	e.90	e.85	e.80	e5.7	e20	32	7.8	2.6	.07	.02
2	.04	e.90	e.90	e.85	e.80	e5.5	e24	30	6.6	2.2	.05	.02
3	.04	e.90	e.90	e.85	e.80	e5.5	e23	30	5.8	1.9	.05	.02
4	.04	e.90	e.90	e.85	e.80	e5.3	e21	30	5.2	1.7	.04	.02
5	.04	e.90	e.90	e.85	e.80	e5.2	e19	30	4.8	1.6	.04	.02
6	.04	e.90	e.90	e.85	e.80	e5.0	e19	36	4.5	1.4	.04	.01
7	.03	e1.0	e.90	e.85	e.80	e5.0	e19	40	4.3	1.3	.03	.01
8	.04	e1.2	e.90	e.85	e.80	e5.0	e19	36	3.9	1.2	.03	.01
9	.04	e1.8	e.90	e.85	e.80	e5.0	e19	32	3.6	1.1	.03	.00
10	.04	e1.3	e.90	e.85	e.80	e5.2	e19	28	3.3	1.0	.02	.00
11	.05	e1.1	e.90	e.85	e.80	e5.5	e20	25	3.1	1.2	.02	.00
12	.05	e1.0	e.90	e.80	e.80	e5.8	e27	23	3.0	1.5	.02	.00
13	.05	e.90	e.90	e.80	e.80	e6.0	34	21	2.8	1.3	.02	.00
14	.05	e.90	e.90	e.80	e.80	e6.0	33	19	3.0	1.1	.03	.00
15	.05	e.90	e.90	e.80	e.70	e6.0	31	18	4.1	.98	.03	.00
16	.05	e.90	e.90	e.80	e.80	e6.0	30	17	5.8	.89	.02	.00
17	.06	e.90	e1.0	e.80	e.80	e5.8	47	16	4.1	.79	.01	.00
18	.07	e.90	e1.0	e.80	e.90	e5.8	38	15	3.6	.69	.01	.10
19	.08	e.90	e.90	e.80	e1.2	e5.8	35	15	3.0	.61	.01	.01
20	.10	e1.2	e.90	e.80	e4.0	e5.8	35	15	2.7	.55	.01	.01
21	.13	e1.4	e.90	e.80	e5.5	e5.8	35	14	2.3	.50	.00	.00
22	.31	e1.0	e.90	e.80	e5.2	e5.8	33	13	2.1	.41	.01	.00
23	.23	e1.0	e.90	e.80	e5.2	e5.8	31	12	2.0	.37	.01	.00
24	.18	e1.0	e.90	e.80	e5.2	e5.9	31	11	2.8	.33	.01	.00
25	.82	e1.0	e.90	e.80	e5.2	e7.5	33	11	2.5	.28	.01	.00
26	10	e1.0	e.90	e.80	e5.2	e9.0	34	11	2.1	.22	.01	.00
27	2.9	e1.4	e.90	e.80	e5.5	e11	34	13	1.8	.18	.01	.00
28	1.2	e1.2	e.90	e.80	e5.6	e12	35	13	1.8	.14	.00	.00
29	.95	e1.0	e.90	e.80	e5.6	e13	38	11	3.4	.11	.04	.00
30	.66	e.90	e.85	e.80	---	e15	35	10	4.4	.09	.04	.00
31	e.70	---	e.85	e.80	---	e16	---	9.1	---	.08	.04	---
TOTAL	19.09	31.20	28.00	25.35	67.80	217.7	871	636.1	110.2	28.32	0.76	0.25
MEAN	.62	1.04	.90	.82	2.34	7.02	29.0	20.5	3.67	.91	.025	.008
MAX	10	1.8	1.0	.85	5.6	16	47	40	7.8	2.6	.07	.10
MIN	.03	.90	.85	.80	.70	5.0	19	9.1	1.8	.08	.00	.00
AC-FT	38	62	56	50	134	432	1730	1260	219	56	1.5	.5

e Estimated.

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	2035.77
ANNUAL MEAN	5.56
HIGHEST DAILY MEAN	47
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
ANNUAL RUNOFF (AC-FT)	4040
10 PERCENT EXCEEDS	20
50 PERCENT EXCEEDS	.90
90 PERCENT EXCEEDS	.02

Apr 17
Aug 21
Sep 9

PYRAMID AND WINNEMUCCA LAKES BASIN

10336675 WARD CREEK AT STANFORD ROCK TRAIL CROSSING NEAR TAHOE CITY, CA

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 mi².

PERIOD OF RECORD.--October 1991 to September 1992.

GAGE.--Water-stage recorder. Elevation of gage is 6,450 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No storage or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	1700	*101	*5.07				

Minimum daily, 0.34 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	2.2	2.8	e2.3	2.4	12	31	38	7.9	e4.2	.70	.48
2	.72	2.3	2.7	2.2	2.5	11	34	35	7.2	e3.3	.68	.46
3	.71	2.3	e2.7	2.2	e2.4	11	41	33	6.7	e2.9	.63	.47
4	.72	2.1	e2.7	2.3	2.4	11	40	33	6.0	e2.5	.58	.49
5	.71	2.1	e2.7	e2.4	2.4	11	35	35	5.7	e2.3	.59	.47
6	.72	2.1	2.6	2.4	2.4	10	31	42	5.3	e2.1	.61	.45
7	.71	2.2	2.9	2.3	2.5	9.4	31	44	5.0	e2.1	.60	.43
8	.71	2.4	2.6	e2.3	e2.4	9.2	33	40	4.7	2.0	.56	.43
9	.71	4.7	e2.7	2.3	e2.4	9.1	33	35	4.7	1.8	.58	.40
10	.71	3.3	2.7	2.2	e2.3	9.5	32	29	4.3	1.8	.49	.41
11	.74	2.5	2.9	2.1	e2.3	10	32	27	3.8	2.3	.48	.37
12	.77	2.1	e2.8	2.1	e2.4	11	38	25	3.7	3.2	.50	.36
13	.77	1.9	e2.7	2.2	e2.3	13	48	25	3.6	2.8	.50	.34
14	.75	1.9	e2.7	2.1	e2.3	14	41	24	3.7	2.3	.52	.35
15	.77	1.7	e2.6	2.1	e1.5	13	36	22	5.7	2.1	.56	.36
16	.76	1.6	2.5	2.2	e2.0	12	33	20	e7.3	2.0	.54	.35
17	.76	e1.8	2.6	2.3	e2.2	11	83	19	e6.2	1.9	.53	.49
18	.75	e1.8	e2.8	2.2	e2.5	11	58	17	e5.3	1.9	.47	.71
19	.79	2.2	e2.6	2.3	3.9	11	48	17	e4.4	1.6	.46	.54
20	.79	2.9	2.6	2.3	e8.0	11	48	17	e3.6	1.5	.42	.49
21	.82	3.8	2.6	2.2	14	11	49	14	e3.2	1.4	.42	.48
22	.88	3.4	2.5	2.3	e13	11	41	13	e2.8	1.2	.38	.45
23	.96	3.2	2.4	2.3	e13	11	37	12	e2.6	1.2	.38	.42
24	.97	3.1	2.4	2.3	e13	11	37	11	e3.4	1.2	.43	.41
25	1.6	3.3	2.4	2.3	12	12	39	11	e3.7	1.2	.40	.42
26	15	3.2	2.4	2.3	12	15	42	10	e2.9	1.1	.36	.45
27	3.8	4.2	2.4	2.3	13	17	43	14	e2.4	1.0	.35	.47
28	2.4	e3.4	2.4	2.3	14	21	47	14	e2.2	.87	.36	.43
29	2.2	e2.8	2.4	e2.3	14	24	58	11	e3.1	.82	.36	.43
30	1.8	e2.8	2.4	e2.3	---	23	48	9.5	e6.9	.76	.56	.44
31	1.7	---	2.3	2.4	---	25	---	8.7	---	.74	.57	---
TOTAL	46.91	79.3	80.5	70.1	171.5	401.2	1247	705.2	138.0	58.09	15.57	13.25
MEAN	1.51	2.64	2.60	2.26	5.91	12.9	41.6	22.7	4.60	1.87	.50	.44
MAX	15	4.7	2.9	2.4	14	25	83	44	7.9	4.2	.70	.71
MIN	.71	1.6	2.3	2.1	1.5	9.1	31	8.7	2.2	.74	.35	.34
AC-FT	93	157	160	139	340	796	2470	1400	274	115	31	26

e Estimated.

SUMMARY STATISTICS

FOR 1992 WATER YEAR

ANNUAL TOTAL	3026.62
ANNUAL MEAN	8.27
HIGHEST DAILY MEAN	83 Apr 17
LOWEST DAILY MEAN	.34 Sep 13
ANNUAL SEVEN-DAY MINIMUM	.36 Sep 10
ANNUAL RUNOFF (AC-FT)	6000
10 PERCENT EXCEEDS	31
50 PERCENT EXCEEDS	2.4
90 PERCENT EXCEEDS	.48

PYRAMID AND WINNEMUCCA LAKES BASIN

247

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,230 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and discharges less than 1 ft³/s, which are fair. Minor diversion for local water supply upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,800 ft³/s, Dec. 19, 1981, gage height, 8.05 ft, from rating curve extended above 800 ft³/s; no flow for many days during 1977-78, 1981, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 20	2245	Unknown	* (a) 5.99	Apr. 17	1030	*110	5.33

(a) Backwater from ice.

Minimum daily, 0.01 ft³/s, Aug. 28.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	1.7	e2.7	2.3	2.2	12	30	36	8.6	4.1	.30	.25
2	.34	1.9	2.6	2.4	2.1	11	34	33	7.8	3.2	.28	.18
3	.33	1.9	2.6	2.4	e2.1	11	40	31	7.0	2.8	.25	.19
4	.35	1.8	e2.6	2.4	2.1	11	39	32	6.4	2.4	.21	.22
5	.34	1.7	e2.6	2.3	2.0	11	35	33	5.9	2.1	.21	.19
6	.34	1.8	2.7	2.5	2.0	10	31	40	5.5	1.9	.18	.15
7	.36	1.8	2.8	2.3	2.1	9.6	31	44	5.1	1.8	.16	.14
8	.39	2.0	2.7	2.2	2.3	9.3	33	40	4.6	1.6	.14	.12
9	.41	4.3	e2.6	2.2	2.3	9.0	33	34	4.2	1.5	.15	.10
10	.37	3.2	e2.5	2.2	2.2	9.3	31	29	3.8	1.5	.12	.08
11	.39	2.4	2.5	2.2	2.1	10	32	27	3.4	2.0	.09	.09
12	.41	2.0	e2.4	2.2	2.3	11	37	26	3.3	3.2	.09	.11
13	.41	1.8	e2.4	2.2	2.2	13	48	26	3.4	2.7	.12	.08
14	.41	1.8	e2.4	2.1	2.2	14	41	24	3.5	1.9	.12	.14
15	.41	1.7	e2.4	2.1	1.3	13	36	22	5.8	1.7	.18	.16
16	.43	e1.7	e2.4	2.1	2.0	12	33	21	7.3	1.6	.16	.15
17	.45	1.7	e2.4	2.1	2.2	11	92	20	6.2	1.5	.10	.19
18	.45	1.6	e2.4	2.1	2.5	11	62	18	5.3	1.2	.07	.67
19	.45	1.7	e2.4	2.2	e5.0	11	47	18	4.4	1.1	.04	.35
20	.48	2.7	e2.4	2.0	e8.0	11	46	18	3.6	.96	.04	.30
21	.53	3.2	e2.4	2.0	e13	11	47	15	3.1	.90	.06	.26
22	.59	2.9	e2.4	2.0	e13	11	39	14	2.7	.89	.09	.21
23	.78	2.8	e2.4	2.0	e13	11	35	13	2.5	.86	.09	.19
24	.78	2.4	e2.4	2.1	e13	11	35	12	3.4	.82	.10	.22
25	1.4	2.5	e2.4	2.2	13	12	39	12	3.7	.76	.09	.25
26	20	2.7	e2.4	2.2	13	14	42	11	2.8	.62	.07	.26
27	5.9	3.6	e2.4	2.1	12	17	42	14	2.3	.51	.03	.25
28	2.9	e3.4	e2.4	2.2	13	21	46	15	2.1	.47	.01	.24
29	2.1	e2.8	2.4	2.1	13	24	55	12	3.0	.43	.03	.22
30	1.7	e2.8	2.3	2.3	---	24	44	10	6.9	.36	.27	.20
31	1.9	---	2.3	2.3	---	25	---	9.3	---	.31	.41	---
TOTAL	46.43	70.3	76.7	68.0	167.2	401.2	1235	709.3	137.6	47.69	4.26	6.16
MEAN	1.50	2.34	2.47	2.19	5.77	12.9	41.2	22.9	4.59	1.54	.14	.21
MAX	20	4.3	2.8	2.5	13	25	92	44	8.6	4.1	.41	.67
MIN	.33	1.6	2.3	2.0	1.3	9.0	30	9.3	2.1	.31	.01	.08
AC-FT	92	139	152	135	332	796	2450	1410	273	95	8.4	12

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.76	13.4	13.1	13.8	15.0	19.6	40.4	83.4	68.8	19.7	3.57	1.84
MAX	22.4	73.9	92.5	74.0	77.7	80.3	89.2	155	265	123	26.9	7.93
(WY)	1983	1982	1982	1980	1982	1986	1989	1982	1983	1983	1983	1983
MIN	.15	1.06	.80	1.10	1.24	2.52	8.06	18.7	4.59	1.14	.003	.005
(WY)	1978	1978	1977	1991	1991	1977	1975	1977	1992	1977	1977	1977

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1973 - 1992	
ANNUAL TOTAL	4202.35		2969.84			
ANNUAL MEAN	11.5		8.11		24.7	
HIGHEST ANNUAL MEAN					59.0	
LOWEST ANNUAL MEAN					5.29	
HIGHEST DAILY MEAN	120	Mar 4	92	Apr 17	784	Jan 13 1980
LOWEST DAILY MEAN	.21	Sep 3	.01	Aug 28	.00	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	.27	Aug 28	.06	Aug 23	.00	Aug 4 1977
INSTANTANEOUS PEAK FLOW			110	Apr 17	1800	Dec 19 1981
INSTANTANEOUS PEAK STAGE			5.99	Feb 20	8.05	Dec 19 1981
ANNUAL RUNOFF (AC-FT)	8340		5890		17890	
10 PERCENT EXCEEDS	37		31		70	
50 PERCENT EXCEEDS	2.4		2.4		6.6	
90 PERCENT EXCEEDS	.34		.19		.80	

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

249

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 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1992 (discontinued).

REMARKS.--Sediment samples were collected during most days where a water temperature is published.

COOPERATION.--Selected sediment samples and water-temperature observations provided by University of California at Davis.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATION: Maximum daily mean, 1,510 mg/L, December 19, 1981; minimum daily mean, 0 mg/L, many days during each year.

SEDIMENT LOAD: Maximum daily, 3,720 tons, December 19, 1981; minimum daily, 0 ton, many days during each year.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATION: Maximum daily mean, 58 mg/L, April 17; minimum daily mean, 0 mg/L, October 1, 2.

SEDIMENT LOAD: Maximum daily, 15 tons, April 17; minimum daily, 0 ton, many days.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 06...	1930	56	9.0	128	19	96

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.0	11.0	---	---	---	17.5
2	15.0	---	---	---	---	---	---	---	---	---	---	---
3	---	---	.0	---	---	---	2.0	8.0	---	---	---	12.5
4	---	---	---	---	---	---	---	---	10.5	---	---	---
5	---	5.5	---	---	.0	3.0	---	7.5	---	---	11.0	---
6	---	---	---	---	---	---	6.5	9.0	---	15.5	---	---
7	12.5	4.0	---	---	---	---	---	6.0	---	19.0	---	---
8	---	---	---	---	---	---	6.5	10.0	18.0	---	---	---
9	---	---	---	---	---	---	4.0	---	---	---	---	---
10	---	---	---	.5	1.0	---	---	---	---	---	24.5	---
11	---	---	---	---	---	---	---	14.0	---	---	---	16.0
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	.0	---	---	---	13.5	---	---	---	---
14	---	---	---	.5	---	---	---	13.0	---	---	---	---
15	---	---	---	---	---	---	---	---	6.0	---	---	---
16	---	---	---	---	---	---	7.0	---	---	22.5	---	---
17	---	---	.0	---	---	---	4.0	---	---	---	---	---
18	---	---	---	---	.0	5.0	2.0	---	---	---	---	---
19	---	---	---	---	.0	---	---	8.0	---	---	---	---
20	---	.5	.5	---	.0	---	9.5	---	---	---	---	---
21	5.5	1.0	---	---	.0	---	---	---	---	---	17.0	---
22	---	.5	---	---	.0	---	4.5	---	---	---	---	---
23	---	---	---	---	---	4.5	4.0	---	19.0	---	---	---
24	---	---	---	.0	---	---	10.0	---	---	---	---	---
25	4.0	---	---	---	---	---	---	---	---	---	---	---
26	4.5	---	---	---	.0	---	9.5	---	---	---	---	---
27	---	---	---	---	---	4.5	6.0	---	---	---	---	---
28	2.5	---	---	---	---	---	3.5	---	---	---	---	13.5
29	---	---	---	---	---	---	10.0	15.5	11.0	---	---	---
30	2.5	---	---	---	---	---	3.5	---	---	24.0	---	---
31	---	---	.0	---	---	4.0	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.33	0	.00	1.7	1	.00	e2.7	1	.01
2	.34	0	.00	1.9	1	.01	2.6	1	.01
3	.33	1	.00	1.9	1	.01	2.6	1	.01
4	.35	1	.00	1.8	1	.00	e2.6	1	.01
5	.34	2	.00	1.7	1	.00	e2.6	1	.01
6	.34	2	.00	1.8	1	.00	2.7	1	.01
7	.36	2	.00	1.8	1	.00	2.8	1	.01
8	.39	2	.00	2.0	1	.01	2.7	1	.01
9	.41	2	.00	4.3	3	.03	e2.6	1	.01
10	.37	2	.00	3.2	1	.01	e2.5	1	.01
11	.39	2	.00	2.4	1	.01	2.5	1	.01
12	.41	2	.00	2.0	1	.01	e2.4	1	.01
13	.41	2	.00	1.8	1	.00	e2.4	1	.01
14	.41	2	.00	1.8	1	.00	e2.4	1	.01
15	.41	2	.00	1.7	1	.00	e2.4	1	.01
16	.43	2	.00	e1.7	1	.00	e2.4	1	.01
17	.45	2	.00	1.7	2	.01	e2.4	1	.01
18	.45	2	.00	1.6	2	.01	e2.4	1	.01
19	.45	2	.00	1.7	2	.01	e2.4	1	.01
20	.48	2	.00	2.7	2	.01	e2.4	1	.01
21	.53	2	.00	3.2	1	.01	e2.4	1	.01
22	.59	2	.00	2.9	1	.01	e2.4	1	.01
23	.78	2	.00	2.8	1	.01	e2.4	1	.01
24	.78	2	.00	2.4	1	.01	e2.4	1	.01
25	1.4	5	.02	2.5	1	.01	e2.4	2	.01
26	20	32	1.7	2.7	1	.01	e2.4	2	.01
27	5.9	2	.03	3.6	1	.01	e2.4	2	.01
28	2.9	1	.01	e3.4	1	.01	e2.4	2	.01
29	2.1	1	.01	e2.8	1	.01	2.4	2	.01
30	1.7	1	.00	e2.8	1	.01	2.3	2	.01
31	1.9	2	.01	---	---	---	2.3	2	.01
TOTAL	46.43	---	1.78	70.3	---	0.23	76.7	---	0.31
JANUARY			FEBRUARY			MARCH			
1	2.3	2	.01	2.2	1	.01	12	2	.06
2	2.4	2	.01	2.1	1	.01	11	2	.06
3	2.4	2	.01	e2.1	1	.01	11	2	.06
4	2.4	2	.01	2.1	1	.01	11	1	.03
5	2.3	1	.01	2.0	1	.01	11	1	.03
6	2.5	1	.01	2.0	1	.01	10	1	.03
7	2.3	1	.01	2.1	1	.01	9.6	1	.03
8	2.2	1	.01	2.3	1	.01	9.3	1	.03
9	2.2	1	.01	2.3	1	.01	9.0	1	.02
10	2.2	1	.01	2.2	1	.01	9.3	1	.03
11	2.2	1	.01	2.1	1	.01	10	1	.03
12	2.2	1	.01	2.3	1	.01	11	1	.03
13	2.2	1	.01	2.2	1	.01	13	1	.04
14	2.1	1	.01	2.2	1	.01	14	1	.04
15	2.1	1	.01	1.3	1	.00	13	1	.04
16	2.1	1	.01	2.0	1	.01	12	1	.03
17	2.1	1	.01	2.2	1	.01	11	1	.03
18	2.1	1	.01	2.5	1	.01	11	1	.03
19	2.2	1	.01	e5.0	4	.05	11	1	.03
20	2.0	1	.01	e8.0	6	.13	11	1	.03
21	2.0	1	.01	e13	5	.18	11	2	.06
22	2.0	1	.01	e13	4	.14	11	2	.06
23	2.0	1	.01	e13	4	.14	11	2	.06
24	2.1	1	.01	e13	5	.18	11	2	.06
25	2.2	1	.01	13	5	.18	12	2	.06
26	2.2	1	.01	13	6	.21	14	3	.11
27	2.1	1	.01	12	5	.16	17	4	.18
28	2.2	1	.01	13	4	.14	21	5	.28
29	2.1	1	.01	13	3	.11	24	6	.39
30	2.3	1	.01	---	---	---	24	5	.32
31	2.3	1	.01	---	---	---	25	8	.54
TOTAL	68.0	---	0.31	167.2	---	1.79	401.2	---	2.83

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

251

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN	SEDIMENT DISCHARGE (TONS/DAY)
		CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)			CONCEN- TRATION (MG/L)	
APRIL			MAY			JUNE			
1	30	11	.89	36	1	.10	8.6	2	.05
2	34	17	1.6	33	2	.18	7.8	2	.04
3	40	33	3.6	31	3	.25	7.0	1	.02
4	39	28	2.9	32	3	.26	6.4	3	.05
5	35	7	.66	33	3	.27	5.9	3	.05
6	31	4	.33	40	19	2.8	5.5	3	.04
7	31	5	.42	44	6	.71	5.1	2	.03
8	33	5	.45	40	6	.65	4.6	2	.02
9	33	5	.45	34	6	.55	4.2	2	.02
10	31	3	.25	29	5	.39	3.8	2	.02
11	32	3	.26	27	4	.29	3.4	2	.02
12	37	5	.50	26	4	.28	3.3	2	.02
13	48	7	.91	26	4	.28	3.4	2	.02
14	41	4	.44	24	3	.19	3.5	2	.02
15	36	3	.29	22	4	.24	5.8	3	.05
16	33	4	.36	21	4	.23	7.3	4	.08
17	92	58	15	20	4	.22	6.2	3	.05
18	62	12	2.0	18	4	.19	5.3	3	.04
19	47	6	.76	18	4	.19	4.4	3	.04
20	46	6	.75	18	4	.19	3.6	3	.03
21	47	6	.76	15	3	.12	3.1	2	.02
22	39	5	.53	14	3	.11	2.7	2	.01
23	35	4	.38	13	3	.11	2.5	2	.01
24	35	4	.38	12	3	.10	3.4	2	.02
25	39	4	.42	12	2	.06	3.7	2	.02
26	42	5	.57	11	2	.06	2.8	2	.02
27	42	6	.68	14	12	.69	2.3	2	.01
28	46	7	.87	15	16	.65	2.1	2	.01
29	55	6	.89	12	9	.29	3.0	3	.02
30	44	2	.24	10	4	.11	6.9	11	.20
31	---	---	---	9.3	3	.08	---	---	---
TOTAL	1235	---	38.54	709.3	---	10.84	137.6	---	1.05
JULY			AUGUST			SEPTEMBER			
1	4.1	2	.02	.30	1	.00	.25	1	.00
2	3.2	2	.02	.28	1	.00	.18	1	.00
3	2.8	2	.02	.25	1	.00	.19	1	.00
4	2.4	2	.01	.21	1	.00	.22	1	.00
5	2.1	1	.01	.21	1	.00	.19	1	.00
6	1.9	1	.01	.18	1	.00	.15	1	.00
7	1.8	1	.00	.16	1	.00	.14	1	.00
8	1.6	1	.00	.14	1	.00	.12	2	.00
9	1.5	1	.00	.15	1	.00	.10	2	.00
10	1.5	1	.00	.12	1	.00	.08	2	.00
11	2.0	1	.01	.09	1	.00	.09	2	.00
12	3.2	3	.03	.09	1	.00	.11	2	.00
13	2.7	2	.01	.12	1	.00	.08	2	.00
14	1.9	2	.01	.12	1	.00	.14	2	.00
15	1.7	2	.01	.18	1	.00	.16	2	.00
16	1.6	2	.01	.16	1	.00	.15	2	.00
17	1.5	2	.01	.10	1	.00	.19	3	.00
18	1.2	2	.01	.07	1	.00	.67	4	.01
19	1.1	2	.01	.04	1	.00	.35	2	.00
20	.96	2	.01	.04	1	.00	.30	2	.00
21	.90	2	.00	.06	1	.00	.26	2	.00
22	.89	1	.00	.09	1	.00	.21	2	.00
23	.86	1	.00	.09	1	.00	.19	2	.00
24	.82	1	.00	.10	1	.00	.22	2	.00
25	.76	1	.00	.09	1	.00	.25	2	.00
26	.62	1	.00	.07	1	.00	.26	2	.00
27	.51	1	.00	.03	1	.00	.25	2	.00
28	.47	1	.00	.01	1	.00	.24	2	.00
29	.43	1	.00	.03	1	.00	.22	2	.00
30	.36	1	.00	.27	1	.00	.20	2	.00
31	.31	1	.00	.41	1	.00	---	---	---
TOTAL	47.69	---	0.21	4.26	---	0.00	6.16	---	0.01
YEAR	2969.84		57.90						

PYRAMID AND WINNEMUCCA LAKES BASIN

10336688 FIRST CREEK NEAR CRYSTAL BAY, NV

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.--1.09 mi².

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR									
10...	1140	0.46	92	8.2	6.0	2.0	10.5	96	0.007
APR									
03...	1250	0.46	84	8.2	18.0	8.0	--	--	0.004
09...	1315	0.44	78	--	9.0	6.0	--	--	0.004
16...	1240	0.41	79	--	10.5	6.5	--	--	0.004
23...	1500	0.38	77	8.0	11.0	7.5	--	--	0.003
30...	1430	0.30	80	8.1	12.5	10.0	--	--	0.003
MAY									
08...	1235	0.35	80	8.1	12.5	11.0	--	--	0.002
26...	1205	0.26	76	--	13.0	9.5	--	--	0.007
JUN									
04...	1250	0.18	81	8.1	19.0	12.0	--	--	0.011
15...	1555	0.32	69	--	4.0	5.0	--	--	0.030
SEP									
17...	0835	0.14	99	--	9.5	7.5	--	--	0.003

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR								
10...	<0.004	0.08	0.029	0.011	0.03	292	4	<0.01
APR								
03...	0.002	0.16	0.043	0.012	0.04	496	13	0.02
09...	0.007	0.12	0.039	0.009	0.03	572	13	0.02
16...	0.005	0.11	0.041	0.011	0.03	513	17	0.02
23...	<0.004	0.15	0.040	0.014	0.04	502	11	0.01
30...	<0.001	0.16	0.045	0.014	0.04	664	20	0.02
MAY								
08...	0.001	0.16	0.046	0.015	0.05	542	16	0.02
26...	0.005	0.16	0.047	0.013	0.04	646	15	0.01
JUN								
04...	0.003	0.14	0.054	0.018	0.05	658	19	0.01
15...	0.003	0.83	0.149	0.009	0.03	3290	127	0.11
SEP								
17...	0.001	0.12	0.046	0.014	0.04	368	6	<0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

253

10336691 SECOND CREEK AT LAKESHORE DRIVE NR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'58", long 119°58'35", in NE 1/4 SE 1/4 sec.17, 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, 1.6 mi west of Incline Village, and 2.0 mi northeast of Crystal Bay.

DRAINAGE AREA.--Not determined.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR									
10...	1050	0.38	72	8.2	10.0	1.5	10.8	97	0.008
APR									
03...	1130	0.81	59	8.3	15.5	7.5	--	--	0.005
09...	1155	0.84	58	--	18.0	6.0	--	--	0.004
16...	1130	0.83	59	--	16.0	6.0	--	--	0.004
23...	1345	0.67	57	8.0	15.0	9.0	--	--	0.003
28...	1800	0.63	61	8.1	15.5	11.5	--	--	0.003
MAY									
08...	1120	0.53	65	8.1	17.0	10.5	--	--	0.003
26...	1100	0.24	69	--	16.0	9.5	--	--	0.006
JUN									
04...	1140	0.21	73	8.3	18.0	12.0	--	--	0.008
JUL									
15...	1950	0.30	67	--	21.0	15.0	--	--	0.005
SEP									
16...	1430	0.19	76	--	17.5	11.0	--	--	0.003

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR								
10...	<0.004	0.16	0.083	0.015	0.05	1130	32	0.03
APR								
03...	0.002	0.68	0.119	0.019	0.06	1250	166	0.36
09...	0.004	0.17	0.069	0.016	0.05	426	39	0.09
16...	0.002	0.12	0.062	0.016	0.05	869	30	0.07
23...	<0.004	0.32	0.052	0.017	0.05	1010	44	0.08
28...	<0.001	0.39	0.088	0.021	0.06	1130	62	0.11
MAY								
08...	0.001	0.19	0.072	0.021	0.06	800	52	0.07
26...	0.005	0.17	0.061	0.019	0.06	871	34	0.02
JUN								
04...	0.001	0.13	0.075	0.025	0.08	919	28	0.02
JUL								
15...	0.007	0.41	0.281	0.043	0.13	2120	163	0.13
SEP								
16...	<0.001	0.08	0.059	0.032	0.10	578	10	0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336692 WOOD CREEK ABOVE JENNIFER STREET NEAR INCLINE VILLAGE, NV

LOCATION.--Lat 39°15'46", long 119°57'38", in NE 1/4 SE 1/4 sec.9, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 100 ft upstream of culvert on dirt logging road, 0.2 mi upstream of culverts on Jennifer Street, and 1.4 mi northwest of Incline Village.

DRAINAGE AREA.--Not determined.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR								
10...	1315	1.0	60	8.4	5.0	3.5	0.068	<0.004
APR								
03...	1340	1.5	53	8.4	17.0	9.5	0.093	0.002
09...	1450	1.3	55	--	14.5	7.5	0.058	0.014
20...	1200	1.0	58	--	11.0	7.5	0.003	0.002
23...	1620	1.1	59	8.0	13.0	8.5	0.003	0.001
30...	1600	1.1	57	8.1	10.5	9.5	0.008	<0.001
MAY								
12...	1650	0.72	59	--	14.5	11.5	0.018	0.002
26...	1330	0.65	60	--	19.5	12.5	0.023	0.004
JUL								
09...	1315	0.54	63	--	20.5	12.0	0.024	0.001
SEP								
17...	0950	0.51	66	--	13.0	6.5	0.025	0.002

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAR							
10...	0.14	0.128	0.023	0.07	1450	168	0.47
APR							
03...	0.66	0.369	0.023	0.07	2610	537	2.2
09...	0.25	0.133	0.018	0.06	833	123	0.42
20...	0.32	0.100	0.006	0.02	1180	109	0.29
23...	0.37	0.108	0.018	0.06	1500	109	0.32
30...	0.32	0.104	0.022	0.07	1290	105	0.31
MAY							
12...	0.26	0.077	0.021	0.06	593	71	0.14
26...	0.21	0.079	0.016	0.05	763	59	0.10
JUL							
09...	0.11	0.065	0.017	0.05	433	30	0.04
SEP							
17...	0.11	0.082	0.017	0.05	550	29	0.04

PYRAMID AND WINNEMUCCA LAKES BASIN

255

10336694 WOOD CREEK AT MOUTH NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'35", 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.--2.05 mi².

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR									
10...	0945	0.87	64	8.4	5.5	0.5	11.4	100	0.035
APR									
03...	1055	1.3	58	8.5	16.0	6.0	--	--	0.101
09...	1030	1.1	59	--	11.0	4.0	--	--	0.077
16...	1015	0.96	61	--	14.5	4.5	--	--	0.018
23...	1220	1.0	59	7.9	11.0	6.0	--	--	0.003
28...	1610	0.91	58	8.1	13.0	13.0	--	--	0.004
MAY									
08...	0950	0.81	61	--	16.0	9.5	--	--	0.026
26...	0945	0.55	62	--	13.0	10.0	--	--	0.020
JUN									
04...	1020	0.50	64	8.2	16.5	11.5	--	--	0.027
15...	1452	1.3	57	--	5.0	5.5	--	--	0.041
JUL									
15...	1915	0.80	56	8.2	21.0	14.0	--	--	0.029
SEP									
16...	1325	0.36	67	8.2	14.0	10.5	--	--	0.003

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO- REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAR								
10...	<0.004	0.56	0.131	0.019	0.06	1800	15	0.03
APR								
03...	0.002	0.24	0.118	0.021	0.06	1300	50	0.18
09...	0.001	0.19	0.066	0.018	0.05	510	25	0.07
16...	0.009	0.16	0.070	0.015	0.05	759	25	0.06
23...	0.001	0.19	0.081	0.018	0.06	1020	29	0.08
28...	<0.001	0.46	0.117	0.022	0.07	642	78	0.19
MAY								
08...	0.003	0.21	0.085	0.022	0.07	669	35	0.08
26...	0.006	0.19	0.052	0.025	0.08	862	28	0.04
JUN								
04...	0.001	0.19	0.090	0.028	0.09	1010	29	0.04
15...	0.044	1.5	0.337	0.048	0.15	6640	280	0.98
JUL								
15...	0.013	0.72	0.546	0.046	0.14	4280	362	0.78
SEP								
16...	0.001	0.11	0.067	0.026	0.08	690	16	0.02

PYRAMID AND WINNEMUCCA LAKES BASIN

103366958 THIRD CREEK BELOW UNNAMED TRIBUTARY NEAR INCLINE VILLAGE, NV

LOCATION.--Lat 39°16'47", long 119°56'46", in NW 1/4 SE 1/4 sec.3, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, Toiyabe National Forest, on left bank, 10 ft upstream of pipe crossing, 200 ft northwest of end of Mercury Court, 800 ft downstream of unnamed tributary, 0.3 mi upstream of bridge on State Highway 431, and 2.3 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR								
10...	1430	2.0	51	8.6	10.0	5.5	0.005	<0.004
APR								
03...	1440	5.2	44	8.4	16.0	6.5	0.014	0.001
09...	1320	3.9	45	--	14.5	6.5	0.016	0.001
20...	1330	6.1	40	--	15.5	7.0	0.004	<0.001
23...	1530	4.2	40	8.7	15.0	7.5	0.003	<0.001
29...	1800	11	31	8.2	9.5	8.5	0.004	<0.001
MAY								
12...	1510	2.6	43	--	19.5	11.5	0.015	0.002
26...	1510	1.3	50	--	17.0	12.5	0.017	0.005
JUL								
09...	1135	0.78	54	--	14.0	13.0	0.017	0.001
SEP								
17...	1110	0.59	54	--	14.0	12.0	0.003	0.00

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR								
10...	0.15	0.045	0.009	0.03	485	26	0.14	--
APR								
03...	0.63	0.157	0.005	0.02	2280	218	3.1	--
09...	0.13	0.031	0.009	0.03	439	22	0.23	--
20...	0.23	0.041	0.005	0.02	597	58	0.96	--
23...	0.29	0.050	0.010	0.03	684	31	0.35	--
29...	1.0	0.425	0.009	0.03	6250	752	22	47
MAY								
12...	0.17	0.033	0.003	0.01	356	19	0.13	--
26...	0.12	0.034	0.015	0.05	269	11	0.04	--
JUL								
09...	0.10	0.050	0.015	0.05	142	3	0.01	--
SEP								
17...	0.09	0.034	0.018	0.05	158	5	0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

257

103366965 THIRD CREEK AT VILLAGE BOULEVARD AT INCLINE VILLAGE, NV

LOCATION.--Lat 39°15'47", long 119°56'39", in NW 1/4 SE 1/4 sec.10, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 1 foot downstream of culvert on Village Boulevard, 0.8 mi downstream of bridge on State Highway 431, and 1.1 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR								
10...	1615	2.0	62	8.4	7.5	5.0	10.0	0.012
APR								
03...	1620	6.1	50	8.3	14.5	7.0	--	0.008
09...	1520	4.4	50	--	18.0	8.0	--	0.006
20...	1500	6.5	42	--	18.0	8.0	--	0.004
23...	1655	4.9	44	8.1	17.0	7.5	--	0.009
29...	1900	10	32	8.1	9.5	9.0	--	0.005
MAY								
12...	1330	2.7	48	--	16.0	12.5	--	0.006
26...	1800	1.5	57	--	14.0	13.0	--	0.009
JUN								
04...	1430	1.0	61	8.1	17.0	15.5	--	0.012
JUL								
09...	0915	0.72	65	--	10.0	8.0	--	0.025
SEP								
17...	1330	0.63	65	--	17.0	12.0	--	0.004

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO, REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR									
10...	0.004	0.43	0.068	0.025	0.08	877	48	0.26	--
APR									
03...	0.002	0.78	0.469	0.006	0.02	4680	565	9.2	56
09...	0.001	0.18	0.071	0.006	0.02	292	99	1.2	--
20...	0.001	0.27	0.113	0.006	0.02	1290	122	2.1	--
23...	0.001	0.42	0.074	0.009	0.03	1110	72	0.95	--
29...	0.001	1.9	0.795	0.005	0.02	9430	957	26	60
MAY									
12...	0.001	0.16	0.046	0.008	0.02	620	27	0.20	--
26...	0.004	0.11	0.036	0.011	0.03	622	13	0.05	--
JUN									
04...	0.001	0.12	0.038	0.018	0.05	577	6	0.02	--
JUL									
09...	0.001	0.05	0.039	0.010	0.03	423	3	0.01	--
SEP									
17...	<0.001	0.07	0.035	0.017	0.05	567	4	0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV

LOCATION.--Lat 39°14'26", long 119°56'41", 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 bridge on Lakeshore Boulevard, 600 ft upstream from mouth, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.05 mi².

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.

GAGE.--Water-stage recorder. Datum of gage is 6,234.03 ft above sea level.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One transmountain diversion to Washoe Valley.

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)
July 14	1730	*23	*2.47				
Minimum daily, 1.2 ft ³ /s, many days.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.7	e3.4	2.9	3.2	4.2	5.2	7.1	2.2	2.3	1.2	1.4
2	1.7	3.0	3.5	2.8	3.3	4.1	6.1	6.3	2.2	2.2	1.2	1.4
3	1.7	2.9	3.4	2.8	3.1	4.1	6.8	6.0	2.2	2.0	1.2	1.3
4	1.7	2.8	3.1	2.8	3.0	4.0	7.0	5.6	2.1	2.0	1.2	1.3
5	1.6	2.8	3.0	e2.8	3.0	3.9	6.2	5.4	2.1	1.9	1.2	1.3
6	1.7	3.0	3.0	e2.8	3.0	4.1	5.9	5.1	2.1	1.8	1.2	1.3
7	1.7	3.4	2.9	e2.8	3.0	4.1	5.8	5.5	2.1	1.8	1.2	1.3
8	1.7	3.5	2.9	e2.8	3.0	3.8	6.5	5.5	2.1	1.8	1.2	1.3
9	1.7	5.2	2.8	e2.8	3.0	3.6	6.5	5.4	2.0	1.8	1.3	1.3
10	1.7	4.8	2.6	e2.9	3.0	3.4	6.7	5.0	1.9	1.8	1.3	1.2
11	1.6	4.0	2.7	e2.9	3.2	3.5	7.1	4.8	2.0	2.0	1.4	1.2
12	1.7	3.6	2.7	e2.9	3.3	3.5	7.3	4.4	2.0	2.0	1.3	1.2
13	1.7	3.5	2.8	e3.0	3.3	3.7	6.5	4.3	2.1	2.0	1.3	1.2
14	1.7	3.5	2.8	e3.0	3.3	3.8	6.3	4.6	2.3	4.4	1.5	1.2
15	1.7	3.5	2.8	3.0	e3.3	3.8	6.3	4.4	2.8	2.4	1.6	1.2
16	1.6	2.9	2.9	3.0	e3.5	3.6	6.2	4.1	2.7	1.9	1.4	1.2
17	1.6	3.2	2.9	3.1	3.7	3.6	8.5	4.0	2.7	1.7	1.4	1.2
18	1.6	3.9	2.9	e3.1	3.5	3.7	8.1	3.8	3.0	1.6	1.4	1.2
19	1.6	3.7	e2.8	e3.1	3.8	3.7	7.7	3.8	2.9	1.5	1.3	1.2
20	1.6	3.7	e2.7	e3.1	5.4	3.6	8.2	3.8	2.7	1.4	1.4	1.2
21	1.6	3.7	e2.9	3.1	4.3	3.6	8.2	3.5	2.4	1.4	1.3	1.3
22	1.6	3.8	3.0	e3.1	5.1	4.3	7.7	3.3	2.1	1.4	1.6	1.3
23	1.6	3.8	3.0	e3.2	4.4	4.3	6.4	3.2	2.0	1.4	1.5	1.3
24	1.7	3.6	3.0	3.2	4.2	3.9	5.6	3.1	2.2	1.3	1.4	1.4
25	1.9	3.5	2.9	3.2	4.4	3.8	6.2	2.9	2.2	1.3	1.4	1.5
26	5.5	3.6	2.8	3.2	4.7	4.0	6.8	2.8	2.2	1.3	1.4	1.5
27	2.4	3.5	2.8	3.3	4.8	4.0	7.2	2.6	2.0	1.3	1.4	1.5
28	2.2	3.5	2.8	3.2	4.7	4.1	7.7	2.6	2.0	1.3	1.3	1.4
29	2.2	3.5	2.8	e3.1	4.5	4.7	8.9	2.5	2.2	1.3	1.4	1.4
30	2.4	e3.4	2.9	3.0	---	5.1	8.5	2.4	2.6	1.2	1.5	1.4
31	2.4	---	e2.9	3.2	---	5.2	---	2.3	---	1.2	1.5	---
TOTAL	58.8	105.5	90.4	93.2	108.0	122.8	208.1	130.1	68.1	54.7	41.9	39.1
MEAN	1.90	3.52	2.92	3.01	3.72	3.96	6.94	4.20	2.27	1.76	1.35	1.30
MAX	5.5	5.2	3.5	3.3	5.4	5.2	8.9	7.1	3.0	4.4	1.6	1.5
MIN	1.6	2.7	2.6	2.8	3.0	3.4	5.2	2.3	1.9	1.2	1.2	1.2
AC-FT	117	209	179	185	214	244	413	258	135	108	83	78

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1970	3.64	9.10	1984	.79	1978
1971	4.61	11.0	1985	1.50	1978
1972	4.29	7.79	1984	2.49	1989
1973	4.28	8.83	1980	2.09	1985
1974	4.39	9.05	1986	2.35	1978
1975	5.78	13.5	1986	3.73	1991
1976	9.46	20.2	1986	5.13	1988
1977	18.6	37.3	1973	3.84	1988
1978	21.7	50.3	1982	2.27	1992
1979	9.12	30.8	1983	1.64	1988
1980	3.61	15.7	1983	1.19	1972
1981	2.91	8.08	1983	1.30	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	1639.4	1120.7	
ANNUAL MEAN	4.49	3.06	7.61
HIGHEST ANNUAL MEAN			14.1
LOWEST ANNUAL MEAN			2.92
HIGHEST DAILY MEAN	30	8.9	99
LOWEST DAILY MEAN	1.3	1.2	.66
ANNUAL SEVEN-DAY MINIMUM	1.4	1.2	.67
INSTANTANEOUS PEAK FLOW		23	150
INSTANTANEOUS PEAK STAGE		2.47	3.77
ANNUAL RUNOFF (AC-FT)	3250	2220	5510
10 PERCENT EXCEEDS	9.4	5.4	18
50 PERCENT EXCEEDS	2.8	2.9	4.3
90 PERCENT EXCEEDS	1.5	1.3	1.8

PYRAMID AND WINNEMUCCA LAKES BASIN

259

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
08...	1252	1.8	85	--	19.0	10.0	--	--	--	--	--	--
16...	1600	1.7	84	8.1	22.0	13.5	--	--	0.004	--	<0.004	0.15
NOV												
09...	1400	5.8	60	8.0	13.0	8.0	--	--	0.005	--	<0.004	0.49
12...	1350	3.8	66	8.4	13.0	8.0	9.2	98	0.006	0.005	<0.004	0.17
DEC												
11...	1415	2.8	70	8.5	3.0	3.0	10.4	98	0.009	--	<0.004	0.10
16...	1245	2.9	76	--	6.5	4.5	--	--	--	--	--	--
JAN												
29...	1145	3.9	76	8.5	5.0	3.0	10.5	98	0.006	--	<0.004	0.28
FEB												
19...	1720	4.3	120	--	2.5	3.0	--	--	0.021	--	<0.004	0.72
20...	1000	5.5	129	7.9	6.0	2.5	10.6	98	0.054	0.021	0.020	0.61
20...	1645	5.5	131	8.1	5.5	4.0	--	--	0.058	--	0.018	1.1
24...	1530	4.1	91	8.2	12.0	6.0	--	--	0.044	--	0.004	0.16
27...	1710	4.7	89	8.6	8.0	6.5	9.5	97	0.032	0.014	<0.004	0.36
MAR												
09...	1240	3.5	85	8.7	9.5	6.0	10.1	103	0.016	--	<0.004	0.11
26...	1500	4.0	81	8.5	10.5	8.0	9.4	102	0.013	0.004	<0.004	0.13
30...	2100	5.5	79	--	1.0	3.5	--	--	0.030	--	0.002	0.54
APR												
02...	1100	5.8	72	7.3	17.5	7.5	--	--	0.020	--	0.002	0.24
02...	1750	6.2	71	7.4	13.0	8.5	--	--	0.014	--	0.002	0.71
03...	1755	7.5	62	8.2	9.0	7.5	9.1	97	0.015	0.010	0.002	1.0
08...	1430	6.2	65	--	16.0	9.0	--	--	0.018	--	0.004	0.20
12...	2225	7.3	62	--	6.0	6.0	--	--	0.006	--	0.001	0.53
13...	1100	6.2	67	--	13.0	7.5	--	--	--	--	--	--
15...	1520	6.2	58	--	16.5	7.5	--	--	0.006	0.008	0.003	0.18
17...	1130	8.6	51	--	11.0	7.5	--	--	0.013	--	0.006	1.6
17...	1445	8.4	50	--	16.0	9.5	--	--	0.007	--	0.005	1.3
23...	1415	6.5	54	8.2	17.0	9.0	9.6	105	0.004	--	0.001	0.53
28...	1450	6.7	50	8.1	19.5	14.0	--	--	0.004	--	<0.001	0.29
28...	1930	8.4	45	7.9	10.5	17.0	--	--	0.004	0.002	0.002	0.78
29...	2010	11	40	7.9	11.0	9.5	--	--	0.013	--	0.005	2.7
30...	1215	8.2	49	8.0	16.5	11.0	--	--	0.005	--	<0.001	0.26
MAY												
07...	1300	5.6	56	8.0	15.0	14.5	--	--	0.005	0.004	<0.001	0.21
13...	1500	4.1	64	--	21.5	14.5	--	--	0.007	--	0.001	0.15
21...	1230	3.6	67	--	15.0	10.0	--	--	0.006	--	0.003	0.16
28...	1505	2.6	74	--	20.0	14.5	--	--	--	--	--	--
JUN												
02...	0920	2.4	77	8.1	16.0	13.0	8.0	96	0.014	0.007	0.001	0.20
15...	1945	3.5	80	--	5.5	7.0	--	--	0.035	--	0.004	0.66
16...	1920	2.6	79	8.5	15.5	11.0	--	--	0.013	--	0.004	0.13
17...	1945	4.3	76	--	10.5	11.5	--	--	0.056	0.023	0.003	2.5
18...	1825	3.3	77	--	11.5	12.5	--	--	0.005	--	0.001	0.86
JUL												
08...	1255	2.0	82	--	18.5	14.0	--	--	0.018	--	0.001	0.13
15...	1540	2.2	82	8.2	20.0	16.0	--	--	0.169	0.029	0.011	0.77
20...	0955	1.6	87	--	12.0	12.5	--	--	0.056	--	0.009	0.21
21...	1100	1.7	83	--	16.5	13.0	--	--	--	--	--	--
AUG												
14...	1940	1.8	92	--	18.0	16.5	--	--	0.093	--	0.016	2.9
24...	1010	1.6	84	8.3	17.5	11.0	--	--	0.017	0.008	0.005	0.18
30...	1410	1.7	82	--	11.0	12.5	--	--	0.020	--	0.001	0.78
SEP												
16...	0935	1.2	84	8.1	12.0	9.5	--	--	0.004	--	0.001	0.10

PYRAMID AND WINNEMUCCA LAKES BASIN

10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS HYDRO. + ORTHO DIS. (MG/L AS P)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)	SEDI- MENT, SUS- PEN- DED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PEN- DED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	0.033	--	--	0.014	0.04	--	602	--	22	0.10	--
NOV												
09...	--	0.237	--	--	0.010	0.03	--	2090	--	171	2.7	--
12...	0.11	0.041	0.014	0.016	0.007	0.02	0.01	763	260	322	3.3	--
DEC												
11...	--	0.027	--	--	0.007	0.02	--	614	--	20	0.15	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
29...	--	0.075	--	--	0.007	0.02	--	1850	--	390	4.1	--
FEB												
19...	--	0.197	--	--	0.008	0.02	--	4360	--	483	5.6	22
20...	0.15	0.193	0.027	0.037	0.012	0.04	0.02	3740	310	275	4.1	37
20...	--	0.305	--	--	0.014	0.04	--	7020	--	391	5.8	46
24...	--	0.057	--	--	0.010	0.03	--	1190	--	176	1.9	--
27...	0.10	0.069	0.016	0.021	0.010	0.03	0.01	1600	290	86	1.1	--
MAR												
09...	--	0.028	--	--	0.007	0.02	--	853	--	139	1.3	--
26...	0.07	0.036	0.016	0.009	0.007	0.02	0.01	915	310	188	2.0	--
30...	--	0.120	--	--	0.004	0.01	--	2180	--	86	1.3	--
APR												
02...	--	0.056	--	--	0.007	0.02	--	1200	--	259	4.1	--
02...	--	0.189	--	--	0.008	0.03	--	3880	--	655	11	--
03...	0.09	0.254	0.018	0.016	0.008	0.02	0.01	4250	150	1420	29	17
08...	--	0.061	--	--	0.010	0.03	--	1110	--	456	7.6	--
12...	--	0.082	--	--	0.007	0.02	--	1370	--	94	1.8	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
15...	0.09	0.055	0.012	0.011	0.005	0.02	0.01	1360	260	94	1.6	--
17...	--	0.386	--	--	0.007	0.02	--	6980	--	1400	33	24
17...	--	0.358	--	--	0.008	0.02	--	6880	--	1620	37	17
23...	--	0.073	--	--	0.010	0.03	--	1150	--	518	9.1	--
28...	--	0.072	--	--	0.007	0.02	--	1370	--	215	3.9	--
28...	0.07	0.291	0.017	0.009	0.008	0.02	0.01	6800	110	1020	23	22
29...	--	0.757	--	--	0.010	0.03	--	12100	--	2730	84	22
30...	--	0.096	--	--	0.006	0.02	--	2040	--	271	6.0	--
MAY												
07...	0.08	0.048	0.015	0.013	0.007	0.02	0.01	940	250	71	1.1	--
13...	--	0.044	--	--	0.006	0.02	--	797	--	140	1.6	--
21...	--	0.033	--	--	0.010	0.03	--	710	--	39	0.38	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	0.07	0.048	0.023	0.013	0.012	0.04	0.01	721	330	14	0.09	--
15...	--	0.143	--	--	0.011	0.03	--	3690	--	103	0.97	70
16...	--	0.048	--	--	0.008	0.02	--	887	--	42	0.30	--
17...	0.22	0.472	0.039	0.046	0.010	0.03	0.02	18500	430	414	4.8	85
18...	--	0.172	--	--	0.014	0.04	--	4510	--	248	2.2	--
JUL												
08...	--	0.042	--	--	0.009	0.03	--	677	--	13	0.07	--
15...	0.16	0.514	0.040	--	0.017	0.05	0.02	4390	160	471	2.8	--
20...	--	0.103	--	--	0.013	0.04	--	969	--	41	0.18	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	--	0.708	--	--	0.021	0.06	--	16100	--	888	4.3	59
24...	0.10	0.074	0.032	0.025	0.018	0.05	0.01	1290	410	49	0.21	--
30...	--	0.215	--	--	0.021	0.06	--	3860	--	339	1.6	--
SEP												
16...	--	0.036	--	--	0.012	0.04	--	549	--	15	0.05	--

PYRAMID AND WINNEMUCCA LAKES BASIN

261

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV

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.--2.78 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,920 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.6 ft³/s, October 26, gage height 1.61 ft; minimum daily, 0.18 ft³/s, August 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	.84	e.86	.74	e.86	e1.4	2.7	2.5	.82	.83	.22	.32
2	.30	.90	.96	.74	e1.0	e1.3	3.0	2.4	.75	.77	.21	.31
3	.29	.96	.93	.75	e1.1	e1.3	3.2	2.3	.73	.72	.20	.33
4	.30	.99	.93	.75	e1.1	e1.3	2.8	2.3	.71	.69	.21	.35
5	.31	1.1	.92	.90	e1.1	e1.3	2.6	2.2	.69	.69	.20	.31
6	.32	1.1	.94	.89	e1.1	e1.3	2.6	2.2	.70	.75	.20	.27
7	.32	1.0	.92	.86	e1.0	e1.4	2.7	2.1	.73	.73	.21	.27
8	.33	1.0	.87	.83	e1.0	e1.5	2.8	2.1	.72	.78	.22	.26
9	.33	1.4	e1.0	.86	e1.1	e1.7	2.7	2.0	.67	.73	.25	.23
10	.36	1.0	e.96	.85	e1.1	e1.8	2.7	1.9	.65	.71	.20	.24
11	.37	.88	e1.0	.82	e1.1	e1.7	2.8	1.8	.65	.88	.20	.26
12	.38	.78	e1.0	.80	e1.0	e1.6	2.8	1.8	.70	.92	.20	.26
13	.37	.74	e.96	.78	e1.0	1.7	3.0	1.7	.77	.81	.23	.25
14	.37	.74	e.90	.80	e1.0	1.8	3.1	1.7	.85	.81	.34	.25
15	.37	.73	e.86	.81	e1.0	1.6	2.9	1.7	1.0	.89	.35	.24
16	.36	e.70	e.80	.80	e1.0	1.5	2.9	1.6	.98	.74	.26	.24
17	.41	.67	.74	.81	e1.0	1.4	3.9	1.4	1.1	.68	.23	.24
18	.43	.92	.74	.80	e1.1	1.4	3.3	1.4	1.0	.60	.20	.31
19	.46	.93	.73	.80	e1.2	1.4	3.1	1.4	.84	.52	.18	.26
20	.51	.93	.74	.81	e1.7	1.4	3.0	1.4	.74	.52	.20	.23
21	.53	.94	.73	.80	e1.5	1.5	3.0	1.3	.67	.53	.23	.22
22	.58	.87	.74	.77	e1.7	1.5	2.8	1.3	.61	.51	.29	.20
23	.68	.89	.71	.77	e1.4	1.4	2.6	1.2	.61	.49	.29	.22
24	.74	.94	.69	.77	e1.3	1.4	2.6	1.1	.80	.45	.28	.26
25	.85	.94	.76	.78	e1.4	1.6	2.7	1.1	.81	.44	.25	.28
26	2.8	.91	.80	.79	e1.5	1.7	2.7	1.1	.75	.44	.21	.28
27	.94	.88	.80	.76	e1.5	1.9	2.7	1.1	.70	.39	.23	.25
28	.65	.87	.79	.78	e1.5	2.2	2.7	1.0	.76	.26	.26	.24
29	.65	e.80	.80	e.80	e1.5	2.2	2.8	.94	.82	.25	.34	.24
30	.61	e.78	.77	e.90	---	2.1	2.6	.85	.91	.26	.45	.24
31	.75	---	.76	e.86	---	2.3	---	.83	---	.24	.41	---
TOTAL	17.00	27.13	26.11	24.98	34.86	49.6	85.8	49.72	23.24	19.03	7.75	7.86
MEAN	.55	.90	.84	.81	1.20	1.60	2.86	1.60	.77	.61	.25	.26
MAX	2.8	1.4	1.0	.90	1.7	2.3	3.9	2.5	1.1	.92	.45	.35
MIN	.29	.67	.69	.74	.86	1.3	2.6	.83	.61	.24	.18	.20
AC-FT	34	54	52	50	69	98	170	99	46	38	15	16

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	.66	1.01	.86	.76	1.08	1.38	2.71	2.61	1.69	.85	.50	.44
MAX	.78	1.13	.89	.81	1.20	1.60	2.86	3.79	2.67	1.04	.70	.60
(WY)	1991	1991	1991	1992	1992	1992	1992	1991	1991	1990	1990	1990
MIN	.55	.90	.84	.72	.95	1.16	2.56	1.60	.77	.61	.25	.26
(WY)	1992	1992	1992	1991	1991	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1990 - 1992
ANNUAL TOTAL	488.53	373.08	
ANNUAL MEAN	1.34	1.02	1.20
HIGHEST ANNUAL MEAN			1.38
LOWEST ANNUAL MEAN			1.02
HIGHEST DAILY MEAN	6.0 May 7	3.9 Apr 17	6.0 May 7 1991
LOWEST DAILY MEAN	.29 Oct 3	.18 Aug 19	.18 Aug 19 1992
ANNUAL SEVEN-DAY MINIMUM	.31 Oct 1	.21 Aug 1	.21 Aug 1 1992
INSTANTANEOUS PEAK FLOW		7.6 Oct 26	7.6 Oct 26 1991
INSTANTANEOUS PEAK STAGE		1.61 Oct 26	1.61 Oct 26 1991
ANNUAL RUNOFF (AC-FT)	969	740	869
10 PERCENT EXCEEDS	3.3	2.2	2.6
50 PERCENT EXCEEDS	.87	.81	.90
90 PERCENT EXCEEDS	.41	.25	.37

PYRAMID AND WINNEMUCCA LAKES BASIN

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
09...	0914	0.42	46	--	--	--	--	--	--
15...	1600	0.33	45	8.3	16.0	8.0	--	--	0.005
NOV									
12...	1010	0.78	42	8.3	8.5	2.5	10.4	98	0.004
DEC									
11...	0930	1.0	38	8.3	-4.0	0.5	--	--	0.031
16...	0909	0.79	43	--	-1.0	1.5	--	--	--
JAN									
28...	1145	0.74	41	8.5	2.5	1.0	10.8	98	0.054
FEB									
24...	1120	1.3	42	8.0	8.0	1.0	--	--	0.059
MAR									
09...	1350	1.7	42	8.6	6.0	1.0	--	--	0.075
13...	1244	1.6	--	--	7.0	3.5	--	--	--
26...	1555	1.7	41	8.2	6.5	3.5	--	--	0.075
APR									
02...	1330	2.4	41	7.3	18.0	5.0	--	--	0.101
08...	1010	2.6	37	--	6.0	3.0	--	--	0.091
14...	1243	2.7	--	--	--	--	--	--	--
15...	1230	2.6	36	--	15.0	4.0	--	--	0.055
17...	0830	3.9	--	--	10.0	5.0	--	--	--
22...	1415	2.6	36	7.9	9.0	5.5	9.6	99	0.069
28...	1145	2.5	36	7.9	17.5	6.5	--	--	0.054
MAY									
08...	1430	2.0	37	8.0	19.0	11.5	--	--	0.023
13...	1120	1.8	38	--	20.0	7.5	--	--	0.023
21...	1540	1.2	36	--	16.0	10.0	--	--	0.011
27...	1035	1.1	40	--	24.0	7.5	--	--	--
JUN									
02...	1535	0.62	41	8.1	24.0	12.5	7.2	87	0.016
15...	1845	1.2	39	8.4	8.0	4.0	--	--	0.022
16...	1650	.99	40	8.2	17.5	7.0	--	--	0.013
17...	2105	1.6	39	--	6.5	6.5	--	--	0.043
JUL									
08...	1555	0.51	42	--	20.0	10.0	--	--	0.016
20...	1200	0.58	44	--	--	9.0	--	--	--
20...	1435	0.44	42	--	18.0	10.0	--	--	0.025
AUG									
25...	1235	0.34	45	8.0	19.0	8.0	--	--	0.014
30...	1720	0.60	44	--	12.5	9.5	--	--	0.003
SEP									
15...	1405	0.24	46	7.9	18.0	7.5	9.6	104	0.002

PYRAMID AND WINNEMUCCA LAKES BASIN

263

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
09...	--	--	--	--	--	--	--	--	--
15...	0.006	0.11	0.025	0.013	0.04	123	2	<0.01	--
NOV									
12...	<0.004	0.12	0.016	0.007	0.02	106	1	<0.01	--
DEC									
11...	<0.004	0.10	0.016	0.007	0.02	67	<1	--	--
16...	--	--	--	--	--	--	--	--	--
JAN									
28...	<0.004	0.09	0.024	0.013	0.04	122	4	0.01	--
FEB									
24...	0.004	0.11	0.029	0.013	0.04	138	2	0.01	--
MAR									
09...	<0.004	0.11	0.030	0.012	0.04	154	3	0.01	--
13...	--	--	--	--	--	--	--	--	--
26...	<0.004	0.20	0.037	0.011	0.03	317	9	0.04	--
APR									
02...	0.003	0.44	0.047	0.006	0.02	464	13	0.08	--
08...	0.002	0.21	0.037	0.012	0.04	158	7	0.05	--
14...	--	--	--	--	--	--	--	--	--
15...	0.002	0.21	0.038	0.004	0.01	331	9	0.06	--
17...	--	--	--	--	--	--	--	--	--
22...	0.006	0.24	0.040	0.014	0.04	369	7	0.05	--
28...	0.001	0.19	0.031	0.012	0.04	317	7	0.05	--
MAY									
08...	0.002	0.23	0.041	0.015	0.05	359	9	0.05	--
13...	0.006	0.22	0.032	0.012	0.04	262	7	0.03	--
21...	0.003	0.21	0.035	0.015	0.05	304	7	0.02	--
27...	--	--	--	--	--	--	--	--	--
JUN									
02...	0.001	0.23	0.041	0.018	0.05	239	5	0.01	--
15...	0.001	0.47	0.069	0.013	0.04	690	15	0.05	--
16...	0.004	0.15	0.045	0.011	0.03	253	4	0.01	--
17...	0.004	1.2	0.116	0.010	0.03	1900	51	0.22	53
JUL									
08...	0.001	0.12	0.041	0.013	0.04	171	3	<0.01	--
20...	--	--	--	--	--	--	--	--	--
20...	0.006	0.08	0.046	0.016	0.05	172	3	<0.01	--
AUG									
25...	0.002	0.09	0.037	0.014	0.04	198	3	<0.01	--
30...	0.001	0.28	0.063	0.016	0.05	612	11	0.02	--
SEP									
15...	0.001	0.07	0.029	0.011	0.03	530	9	0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

103366995 INCLINE CREEK AT HIGHWAY 28 AT INCLINE VILLAGE, NV

LOCATION.--Lat 39°14'44", long 119°58'17", 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.--4.47 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.3 ft³/s, October 26, gage height 1.79 ft; minimum daily, 0.56 ft³/s, August 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	1.2	e1.1	1.5	1.3	2.3	3.7	2.9	1.4	1.2	.62	.82
2	.67	1.3	e1.2	1.6	1.6	2.1	4.1	2.8	1.3	1.1	.60	.78
3	.65	1.3	1.3	1.5	1.7	2.1	4.4	2.7	1.3	1.0	.60	.74
4	.64	1.3	1.4	1.4	1.7	2.2	4.1	2.7	1.2	1.0	.59	.78
5	.65	1.4	1.5	1.4	1.7	2.2	3.7	2.5	1.2	.98	.59	1.3
6	.62	1.3	1.4	1.6	1.6	2.1	3.6	2.5	1.2	.97	.60	.70
7	.63	1.3	1.4	1.5	1.5	2.0	3.8	2.5	1.3	.95	.62	.69
8	.69	1.2	1.7	1.5	1.4	2.0	3.8	2.4	1.3	.90	.61	.66
9	.71	1.9	1.6	1.5	1.5	2.1	3.6	2.3	1.2	.85	.62	.63
10	.71	1.5	1.7	1.3	1.4	2.4	3.5	2.2	1.2	.85	.58	.64
11	.86	1.3	1.6	1.5	1.4	2.3	3.7	2.2	1.2	1.0	.57	.65
12	.75	1.1	1.6	1.5	1.4	2.4	3.7	2.1	1.2	1.0	.58	.64
13	.75	1.1	1.5	1.5	1.4	2.6	3.9	2.0	1.3	.98	.61	.64
14	.76	1.1	1.6	1.5	1.7	2.6	3.8	1.9	1.4	1.0	.74	.61
15	.77	1.1	1.5	1.4	1.7	2.3	3.7	1.9	1.6	1.0	.80	.62
16	.78	e1.0	1.5	1.2	1.8	2.2	3.7	1.9	1.5	.92	.68	.62
17	.82	e.96	1.6	1.4	1.8	2.0	4.7	1.8	1.8	.86	.63	.62
18	.85	1.3	1.5	1.3	1.9	2.0	4.1	1.8	1.6	.79	.59	.70
19	.87	1.3	e1.4	1.3	1.9	2.0	3.8	1.9	1.3	.75	.57	.63
20	.91	1.3	e1.3	1.4	3.0	1.9	3.7	1.8	1.2	.76	.56	.61
21	.94	1.4	e1.4	1.4	2.3	2.0	3.7	1.7	1.1	.79	.59	.59
22	1.1	1.4	1.5	1.4	3.0	2.2	3.5	1.6	1.0	.79	.61	.59
23	1.2	1.4	1.5	1.4	2.5	2.0	3.5	1.6	1.0	.79	.64	.60
24	1.1	1.3	1.5	1.3	2.2	2.1	3.4	1.5	1.2	.77	.62	.62
25	1.3	1.3	1.7	1.1	2.3	2.4	3.5	1.5	1.1	.75	.69	.59
26	4.0	1.3	1.5	1.1	2.6	2.6	3.5	1.5	1.1	.72	.70	.60
27	1.1	e1.2	1.2	1.3	2.8	2.8	3.5	1.5	1.0	.71	.70	.61
28	.99	e1.2	1.5	1.3	2.8	3.2	3.5	1.5	1.1	.69	.67	.59
29	1.0	e1.1	1.7	1.4	2.5	3.2	3.6	1.5	1.2	.67	.75	.60
30	.98	e1.0	1.6	1.4	---	3.0	3.1	1.4	1.3	.66	.92	.59
31	1.2	---	1.6	1.3	---	3.3	---	1.4	---	.64	.91	---
TOTAL	29.68	37.86	46.1	43.2	56.4	72.6	111.9	61.5	37.8	26.84	20.16	20.06
MEAN	.96	1.26	1.49	1.39	1.94	2.34	3.73	1.98	1.26	.87	.65	.67
MAX	4.0	1.9	1.7	1.6	3.0	3.3	4.7	2.9	1.8	1.2	.92	1.3
MIN	.62	.96	1.1	1.1	1.3	1.9	3.1	1.4	1.0	.64	.56	.59
AC-FT	59	75	91	86	112	144	222	122	75	53	40	40

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	1.03	1.24	1.41	1.58	1.89	2.66	3.99	3.18	2.06	1.20	.89	.76
MAX	1.10	1.26	1.49	1.99	2.30	3.40	4.59	4.26	2.72	1.36	1.03	.81
(WY)	1991	1992	1992	1990	1990	1990	1990	1991	1991	1991	1990	1991
MIN	.96	1.22	1.34	1.37	1.41	2.25	3.63	1.98	1.26	.87	.65	.67
(WY)	1992	1991	1991	1991	1991	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	684.84	564.10	
ANNUAL MEAN	1.88	1.54	1.71
HIGHEST ANNUAL MEAN			1.87
LOWEST ANNUAL MEAN			1.54
HIGHEST DAILY MEAN	7.6 Mar 4	4.7 Apr 17	7.6 Mar 4 1991
LOWEST DAILY MEAN	.62 Oct 6	.56 Aug 20	.56 Aug 20 1992
ANNUAL SEVEN-DAY MINIMUM	.65 Oct 1	.60 Aug 6	.60 Aug 6 1992
INSTANTANEOUS PEAK FLOW		8.3 Oct 26	9.9 Mar 4 1991
INSTANTANEOUS PEAK STAGE		1.79 Oct 26	2.30 Feb 8 1990
ANNUAL RUNOFF (AC-FT)	1360	1120	1240
10 PERCENT EXCEEDS	3.9	3.0	3.8
50 PERCENT EXCEEDS	1.4	1.3	1.5
90 PERCENT EXCEEDS	.75	.63	.73

PYRAMID AND WINNEMUCCA LAKES BASIN

265

103366995 INCLINE CREEK AT HIGHWAY 28 AT 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
08...	1426	0.76	64	--	--	--	--	--	--
15...	1710	0.74	64	8.3	18.0	10.5	--	--	0.009
NOV									
12...	1115	1.3	56	8.3	8.5	4.5	10.0	97	0.008
DEC									
11...	1145	1.7	64	8.4	3.0	3.5	10.5	100	0.018
16...	1045	1.7	67	--	4.5	4.0	--	--	--
JAN									
28...	1350	1.6	60	8.5	4.5	3.5	10.3	98	0.032
FEB									
24...	1240	1.9	72	8.1	8.0	3.0	--	--	0.044
MAR									
09...	1500	2.0	70	8.5	9.0	4.0	10.0	97	0.043
26...	1650	2.8	64	8.3	9.5	5.5	--	--	0.052
APR									
02...	1330	4.6	56	7.1	17.0	7.0	--	--	0.082
08...	1320	3.5	52	--	12.0	5.5	--	--	0.078
14...	1030	3.7	--	--	--	--	--	--	--
15...	1110	3.4	50	--	12.0	5.0	--	--	0.075
17...	0927	4.8	--	--	8.0	7.5	--	--	--
22...	1620	3.3	51	8.1	11.0	6.5	10.2	105	0.077
28...	0950	3.4	49	8.1	11.0	6.0	--	--	0.061
MAY									
07...	1720	2.5	52	8.1	14.5	11.0	--	--	0.030
12...	1820	2.0	51	--	15.0	11.0	--	--	0.027
21...	1350	1.8	53	--	20.0	10.0	--	--	0.019
27...	1335	1.5	56	--	22.0	12.0	--	--	--
JUN									
02...	1330	1.3	56	8.2	23.5	14.5	7.8	97	0.024
15...	1830	1.9	54	--	6.0	5.5	--	--	0.036
16...	1750	1.5	55	8.3	15.5	8.5	--	--	0.026
17...	2000	3.1	51	--	8.0	8.5	--	--	0.049
17...	2120	2.8	52	--	13.5	8.5	--	--	0.048
18...	1945	1.4	57	--	10.0	9.0	--	--	0.008
JUL									
08...	1450	0.98	60	--	21.5	13.0	--	--	0.028
20...	1335	0.79	62	--	15.0	13.0	--	--	0.038
AUG									
25...	1030	0.77	72	8.0	13.5	9.0	--	--	0.031
30...	1620	1.1	72	--	13.0	11.0	--	--	0.038
SEP									
16...	1205	0.74	70	8.2	19.5	9.0	--	--	0.012

PYRAMID AND WINNEMUCCA LAKES BASIN

103366995 INCLINE CREEK AT HIGHWAY 28 AT INCLINE VILLAGE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
08...	--	--	--	--	--	--	--	--	--
15...	0.005	0.11	0.035	0.013	0.04	655	2	<0.01	--
NOV									
12...	<0.004	0.10	0.024	0.007	0.02	463	3	0.01	--
DEC									
11...	0.005	0.08	0.020	0.007	0.02	543	3	0.01	--
16...	--	--	--	--	--	--	--	--	--
JAN									
28...	0.005	0.11	0.033	0.009	0.03	1050	8	0.03	--
FEB									
24...	0.007	0.12	0.041	0.013	0.04	911	5	0.03	--
MAR									
09...	<0.004	0.11	0.041	0.012	0.04	1180	9	0.05	--
26...	0.004	0.34	0.085	0.010	0.03	2430	31	0.23	--
APR									
02...	0.003	1.3	0.137	0.011	0.03	3700	112	1.4	--
08...	0.001	0.24	0.046	0.008	0.03	1300	15	0.14	--
14...	--	--	--	--	--	--	--	--	--
15...	0.002	0.25	0.042	0.008	0.02	913	15	0.14	--
17...	--	--	--	--	--	--	--	--	--
22...	0.052	0.29	0.051	0.020	0.06	983	13	0.11	--
28...	0.001	0.28	0.037	0.009	0.03	895	12	0.11	--
MAY									
07...	<0.004	0.24	0.056	0.012	0.04	1290	16	0.11	--
12...	0.002	0.22	0.046	0.008	0.02	1180	13	0.07	--
21...	0.003	0.21	0.038	0.012	0.04	950	14	0.07	--
27...	--	--	--	--	--	--	--	--	--
JUN									
02...	0.002	0.20	0.050	0.015	0.05	1030	11	0.04	--
15...	0.004	0.37	0.109	0.009	0.03	2500	31	0.16	--
16...	0.006	0.14	0.048	0.012	0.04	1030	9	0.04	--
17...	0.009	1.6	0.309	0.017	0.05	10100	221	1.8	69
17...	0.002	1.3	0.288	0.012	0.04	6690	134	1.0	77
18...	0.005	0.26	0.089	0.016	0.05	1580	27	0.10	--
JUL									
08...	0.001	0.10	0.052	0.010	0.03	923	8	0.02	--
20...	0.008	0.11	0.056	0.015	0.05	928	11	0.02	--
AUG									
25...	0.006	0.15	0.060	0.017	0.05	1090	8	0.02	--
30...	0.002	0.44	0.128	0.028	0.09	3390	41	0.12	--
SEP									
16...	0.000	0.09	0.036	0.010	0.03	252	3	0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

267

103366997 INCLINE CREEK TRIBUTARY AT COUNTRY CLUB DRIVE NEAR INCLINE VILLAGE, NV

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR									
10...	1530	1.4	142	8.3	12.0	6.5	9.5	99	0.109
APR									
03...	1540	1.2	145	8.3	14.0	9.5	--	--	0.080
09...	1430	0.90	137	--	17.5	9.5	--	--	0.065
09...	1610	0.95	140	--	11.0	8.5	--	--	0.078
16...	1430	0.90	136	--	11.5	8.5	--	--	0.036
22...	1515	0.98	151	8.2	13.0	9.0	10.1	113	0.059
MAY									
12...	1215	0.71	124	--	16.5	10.5	--	--	0.039
26...	1650	0.63	121	--	14.0	11.5	--	--	0.036
JUN									
04...	1555	0.49	117	8.2	17.0	13.0	--	--	0.044
15...	1710	1.1	107	--	5.0	5.0	--	--	0.049
JUL									
09...	1015	0.58	114	--	10.5	8.5	--	--	0.038
SEP									
17...	1230	0.53	111	--	11.0	9.0	--	--	0.023

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR								
10...	<0.004	0.17	0.038	0.010	0.03	595	14	0.05
APR								
03...	0.002	0.23	0.045	0.006	0.02	668	24	0.08
09...	0.001	0.14	0.035	0.005	0.02	405	10	0.02
09...	0.007	0.12	0.037	0.010	0.03	512	9	0.02
16...	0.004	0.15	0.034	0.005	0.02	560	14	0.03
22...	0.015	0.62	0.061	0.010	0.03	1300	30	0.08
MAY								
12...	0.002	0.17	0.030	0.005	0.02	518	9	0.02
26...	0.005	0.13	0.037	0.010	0.03	591	10	0.02
JUN								
04...	0.002	0.20	0.046	0.014	0.04	626	8	0.01
15...	0.003	0.73	0.129	0.012	0.04	2850	71	0.20
JUL								
09...	0.003	0.08	0.045	0.011	0.03	305	4	0.01
SEP								
17...	0.001	0.11	0.038	0.006	0.02	326	7	0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV

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.--7.0 mi².

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 sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regular diversion above station. Possibly some light pumping or diversion of water for construction or irrigation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 23 ft³/s, October 26, gage height, 2.09 ft; minimum daily, 0.86 ft³/s, August 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.4	e2.4	2.7	2.3	3.6	5.1	4.0	2.2	2.3	1.0	1.1
2	1.3	2.4	e2.5	2.7	2.6	3.5	5.3	3.8	2.3	2.1	1.0	1.1
3	1.3	2.4	2.5	2.6	2.7	3.5	5.5	3.7	2.2	2.0	1.0	1.1
4	1.3	2.4	2.7	2.6	2.7	3.6	5.0	3.5	2.2	2.0	1.0	1.2
5	1.3	2.5	2.7	3.0	2.7	3.6	4.7	3.3	2.2	1.8	1.0	1.7
6	1.4	2.5	2.6	2.7	2.5	3.6	4.6	3.3	2.3	1.7	1.0	1.1
7	1.4	2.4	2.7	2.7	2.4	3.5	4.7	3.3	2.4	1.7	1.0	1.0
8	1.4	2.4	2.8	2.6	2.4	3.4	4.7	3.2	2.3	1.6	.93	1.0
9	1.3	3.0	2.7	e2.3	2.5	3.6	4.6	3.1	2.1	1.6	.92	1.0
10	1.3	2.5	2.8	e2.2	2.4	3.8	4.6	3.0	2.1	1.6	.88	1.0
11	1.5	2.3	2.8	e2.5	2.4	3.6	4.6	3.0	2.1	1.9	.86	1.0
12	1.3	2.2	2.8	e2.7	2.4	3.7	4.7	3.1	2.2	2.0	.88	1.0
13	1.3	2.2	2.7	e2.7	2.5	3.9	4.9	2.9	2.4	1.9	.93	1.0
14	1.4	2.2	2.8	e2.7	2.7	4.0	5.0	2.9	2.6	2.8	1.2	1.0
15	1.4	2.2	2.6	e2.6	2.7	3.6	5.0	2.8	3.3	2.2	1.2	1.1
16	1.3	2.3	2.6	e2.3	2.8	3.5	5.0	2.8	3.1	1.7	1.0	1.0
17	1.4	3.0	2.7	e2.3	2.7	3.4	6.4	2.8	3.6	1.6	.96	.93
18	1.4	2.6	2.7	e2.3	2.7	3.3	5.7	2.9	3.1	1.4	.91	1.0
19	1.4	2.7	e2.6	e2.3	3.2	3.3	5.3	3.0	2.7	1.3	.89	.97
20	1.4	2.8	e2.3	e2.4	5.4	3.3	5.2	2.8	2.5	1.3	.89	.95
21	1.5	2.9	e2.5	e2.4	4.2	3.3	4.9	2.8	2.3	1.3	.92	.90
22	1.5	2.7	2.8	e2.4	5.0	3.8	4.7	2.6	2.1	1.3	.95	.89
23	1.6	2.7	2.7	e2.4	4.1	3.5	4.5	2.5	2.1	1.3	1.0	.89
24	1.6	2.7	2.7	e2.3	3.7	3.5	4.5	2.5	2.3	1.2	.98	.98
25	2.0	2.7	2.9	e2.0	4.0	3.8	4.6	2.6	2.2	1.2	.98	1.1
26	8.8	2.6	2.8	e1.8	4.2	4.1	4.5	2.6	2.1	1.2	.90	1.1
27	2.6	e2.5	2.4	e2.2	4.3	4.0	4.4	2.5	1.9	1.1	.91	1.1
28	2.2	e2.5	2.7	e2.4	4.3	4.4	4.3	2.4	2.1	1.1	.94	1.1
29	2.2	e2.4	2.8	e2.5	4.0	4.4	4.4	2.4	2.4	1.1	1.0	1.1
30	2.0	e2.3	2.7	2.4	---	4.4	4.2	2.3	2.5	1.1	1.4	1.1
31	2.3	---	2.7	2.2	---	4.7	---	2.4	---	1.1	1.3	---
TOTAL	55.5	75.4	82.7	75.9	92.5	115.2	145.6	90.8	71.9	49.5	30.73	31.51
MEAN	1.79	2.51	2.67	2.45	3.19	3.72	4.85	2.93	2.40	1.60	.99	1.05
MAX	8.8	3.0	2.9	3.0	5.4	4.7	6.4	4.0	3.6	2.8	1.4	1.7
MIN	1.3	2.2	2.3	1.8	2.3	3.3	4.2	2.3	1.9	1.1	.86	.89
AC-FT	110	150	164	151	183	228	289	180	143	98	61	63

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1992, BY WATER YEAR (WY)

	3.49	3.83	3.87	4.41	4.43	5.98	8.14	11.6	9.53	4.67	3.25	2.88
MEAN	3.49	3.83	3.87	4.41	4.43	5.98	8.14	11.6	9.53	4.67	3.25	2.88
MAX	5.54	5.71	5.41	11.5	8.70	11.0	12.4	24.7	24.4	10.9	6.47	4.97
(WY)	1970	1971	1973	1970	1970	1970	1973	1975	1975	1971	1975	1975
MIN	1.35	2.09	2.29	2.40	2.64	3.72	3.55	2.71	2.04	1.19	.99	1.05
(WY)	1989	1991	1989	1989	1991	1992	1988	1988	1988	1988	1988	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	1105.4	917.24	
ANNUAL MEAN	3.03	2.51	5.46
HIGHEST ANNUAL MEAN			9.45
LOWEST ANNUAL MEAN			2.51
HIGHEST DAILY MEAN	13	Mar 4	8.8
LOWEST DAILY MEAN	1.1	Aug 24	.86
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 22	.91
INSTANTANEOUS PEAK FLOW			23
INSTANTANEOUS PEAK STAGE			2.09
ANNUAL RUNOFF (AC-FT)	2190	1820	3960
10 PERCENT EXCEEDS	5.6	4.3	11
50 PERCENT EXCEEDS	2.6	2.4	4.0
90 PERCENT EXCEEDS	1.3	1.0	1.6

PYRAMID AND WINNEMUCCA LAKES BASIN

269

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1978-79, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
08...	1030	1.5	90	--	12.5	--	--	--	--	--	--	--
16...	1520	1.3	85	8.3	21.0	10.5	--	--	0.005	--	<0.004	0.11
NOV												
12...	1245	2.3	77	8.2	11.0	6.0	9.6	96	0.007	<0.004	<0.004	0.18
DEC												
11...	1315	2.7	86	8.5	5.0	3.0	10.4	98	0.020	--	<0.004	0.08
16...	1422	2.4	90	--	5.5	4.5	--	--	--	--	--	--
JAN												
29...	0950	2.6	83	8.5	1.5	1.5	11.6	104	0.031	--	<0.004	0.13
FEB												
05...	1048	2.8	85	--	--	--	--	--	--	--	--	--
19...	1650	4.1	160	--	2.5	2.5	--	--	0.042	--	0.006	0.75
20...	0850	5.2	146	7.8	6.0	2.0	10.7	98	0.053	0.010	<0.004	0.48
20...	1610	5.9	166	8.2	6.5	3.5	--	--	0.052	--	0.006	0.87
24...	1420	3.5	112	8.2	11.0	5.0	--	--	0.051	--	0.012	0.14
27...	1630	4.3	109	8.4	9.5	5.5	9.9	99	0.057	0.009	<0.004	0.21
MAR												
09...	1120	3.3	105	8.5	7.0	3.5	11.5	109	0.047	--	<0.004	0.11
25...	1915	4.6	90	8.2	11.0	5.5	--	--	0.049	--	<0.004	0.45
26...	1350	3.9	93	8.4	13.5	6.5	10.2	106	0.046	0.006	<0.004	0.10
30...	2020	5.0	90	--	1.0	3.5	--	--	0.073	--	0.002	0.45
APR												
02...	1215	4.3	85	7.7	18.5	7.0	--	--	0.086	--	0.001	0.27
02...	1840	6.8	72	7.3	9.0	6.5	--	--	0.080	--	0.002	0.89
03...	1720	7.1	67	8.3	12.5	6.5	9.9	102	0.085	0.007	0.003	1.1
08...	1540	4.8	70	--	16.0	7.0	--	--	0.074	--	0.001	0.32
12...	2150	5.5	75	--	6.0	5.0	--	--	0.064	--	0.005	0.45
13...	1340	4.6	--	--	19.0	7.5	--	--	--	--	--	--
15...	1400	4.6	69	--	16.5	6.5	--	--	0.062	0.013	0.004	0.18
17...	1019	5.9	--	--	8.5	8.0	--	--	--	--	--	--
17...	1330	6.5	64	--	12.5	8.5	--	--	0.067	--	0.005	0.41
22...	1300	4.6	69	8.1	13.0	6.5	9.8	101	0.067	--	0.009	0.32
28...	1330	4.1	68	8.1	19.0	11.5	--	--	0.050	--	<0.001	0.26
29...	2115	4.8	63	7.7	11.0	9.0	--	--	0.048	0.007	0.006	0.47
MAY												
07...	1515	3.3	70	8.1	16.0	12.0	--	--	0.028	--	0.001	0.27
13...	1400	3.1	72	--	21.5	12.5	--	--	0.019	--	0.005	0.35
21...	1130	2.9	72	--	16.0	9.0	--	--	0.024	0.013	0.003	0.17
28...	1055	2.5	78	--	14.0	10.0	--	--	--	--	--	--
JUN												
02...	1150	2.2	77	8.2	23.0	13.0	7.9	95	0.027	--	0.002	0.22
15...	1945	4.1	78	8.3	7.0	6.0	--	--	0.039	--	0.004	0.49
16...	1840	3.1	77	8.2	17.0	9.0	--	--	0.024	0.007	0.007	0.14
17...	2030	5.7	67	--	14.5	9.5	--	--	0.049	--	0.005	2.1
18...	1720	3.6	75	--	20.0	10.0	--	--	0.005	--	0.005	0.84
JUL												
08...	1345	1.7	79	--	22.0	13.0	--	--	0.027	0.017	0.001	0.11
15...	1715	1.9	92	8.4	22.0	14.5	--	--	0.020	--	0.011	0.16
20...	1150	1.5	88	--	18.0	11.5	--	--	0.034	--	0.010	0.15
21...	1255	1.5	87	--	19.5	13.0	--	--	--	--	--	--
AUG												
14...	2015	1.5	107	--	16.5	14.5	--	--	0.063	0.008	0.020	0.80
25...	0905	1.2	92	8.0	12.0	8.5	--	--	0.022	--	0.002	0.10
30...	1515	2.1	87	--	16.0	10.5	--	--	0.015	--	0.002	1.1
SEP												
16...	1050	1.2	92	8.1	15.0	9.0	--	--	0.007	0.008	<0.001	0.08

PYRAMID AND WINNEMUCCA LAKES BASIN

10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS HYDRO. + ORTHO DIS. (MG/L AS P)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
08...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	0.029	--	--	0.012	0.04	--	509	--	4	0.01	--
NOV												
12...	0.09	0.022	0.013	0.008	0.006	0.02	0.01	457	240	3	0.02	--
DEC												
11...	--	0.018	--	--	0.006	0.02	--	430	--	4	0.03	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
29...	--	0.031	--	--	0.007	0.02	--	797	--	7	0.05	--
FEB												
05...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	0.188	--	--	0.014	0.04	--	4080	--	67	0.74	84
20...	0.22	0.108	0.028	0.039	0.020	0.06	0.02	2310	180	37	0.52	80
20...	--	0.145	--	--	0.024	0.07	--	4020	--	89	1.4	82
24...	--	0.043	--	--	0.011	0.03	--	816	--	9	0.08	--
27...	0.10	0.046	0.019	0.019	0.010	0.03	0.01	973	290	11	0.13	--
MAR												
09...	--	0.035	--	--	0.007	0.02	--	929	--	14	0.13	--
25...	--	0.140	--	--	0.006	0.02	--	4570	--	47	0.58	--
26...	0.19	0.042	0.021	0.017	0.007	0.02	0.01	1120	300	10	0.10	--
30...	--	0.088	--	--	0.007	0.02	--	1800	--	38	0.51	--
APR												
02...	--	0.053	--	--	0.010	0.03	--	1070	--	16	0.19	--
02...	--	0.185	--	--	0.011	0.03	--	5750	--	224	4.1	37
03...	0.13	0.183	0.024	0.041	0.011	0.03	0.01	4900	190	105	2.0	69
08...	--	0.061	--	--	0.007	0.02	--	1090	--	22	0.29	--
12...	--	0.087	--	--	0.008	0.02	--	2310	--	32	0.48	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
15...	0.11	0.040	0.017	0.014	0.007	0.02	0.01	971	280	17	0.21	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	0.067	--	--	0.011	0.03	--	1580	--	23	0.40	--
22...	--	0.053	--	--	0.011	0.03	--	1230	--	19	0.24	--
28...	--	0.036	--	--	0.011	0.03	--	991	--	13	0.14	--
29...	0.12	0.064	0.013	0.014	0.010	0.03	0.01	1680	220	30	0.39	--
MAY												
07...	--	0.072	--	--	0.012	0.04	--	1580	--	21	0.19	--
13...	--	0.040	--	--	0.011	0.03	--	1040	--	14	0.12	--
21...	0.08	0.037	0.017	0.011	0.011	0.03	0.01	796	250	24	0.19	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	0.046	--	--	0.014	0.04	--	974	--	12	0.07	--
15...	--	0.107	--	--	0.012	0.04	--	2640	--	38	0.42	--
16...	0.06	0.051	0.035	0.013	0.011	0.03	0.01	985	270	9	0.08	--
17...	--	0.385	--	--	0.014	0.04	--	12300	--	248	3.8	76
18...	--	0.162	--	--	0.009	0.03	--	3850	--	45	0.44	--
JUL												
08...	0.06	0.056	0.043	0.017	0.009	0.03	0.01	898	310	10	0.05	--
15...	--	0.080	--	--	0.013	0.04	--	946	--	15	0.08	--
20...	--	0.058	--	--	0.017	0.05	--	744	--	6	0.02	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
14...	0.37	0.156	0.051	0.037	0.031	0.09	0.02	2640	300	48	0.19	--
25...	--	0.054	--	--	0.015	0.05	--	789	--	4	0.01	--
30...	--	0.148	--	--	0.021	0.06	--	3500	--	90	0.51	--
SEP												
16...	0.05	0.031	--	0.016	0.013	0.04	0.01	746	360	4	0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

271

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 mi².

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 sea level (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.

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, 11,780 acre-ft, May 7, 8, elevation, 7,837.97 ft; minimum, 11,050 acre-ft, September 30, elevation, 7,836.04 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
INSTANTANEOUS OBSERVATION AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11240	11140	11200	11270	11230	11170	11610	11760	11730	11650	11520	11270
2	11240	11140	11200	11270	11220	11170	11630	11720	11720	11640	11500	11260
3	11230	11140	11200	11270	11210	11160	11640	11760	11720	11640	11490	11250
4	11220	11140	11200	11260	11210	11150	11650	11760	11710	11630	11490	11250
5	11220	11140	11200	11290	11200	11160	11670	11770	11710	11630	11470	11230
6	11200	11140	11220	11280	11200	11160	11690	11760	11700	11620	11470	11220
7	11200	11150	11240	11280	11190	11150	11690	11770	11700	11620	11460	11220
8	11190	11140	11260	11280	11190	11140	11700	11770	11690	11620	11440	11220
9	11170	11160	11250	11280	11180	11140	11690	11760	11690	11610	11440	11210
10	11170	11160	11270	11280	11170	11150	11690	11760	11680	11610	11430	11200
11	11160	11160	11270	11270	11190	11170	11690	11760	11680	11600	11430	11200
12	11160	11160	11270	11270	11190	11190	11700	11760	11660	11610	11430	11190
13	11150	11150	11270	11270	11190	11200	11710	11760	11650	11610	11430	11180
14	11140	11140	11260	11270	11200	11220	11710	11760	11670	11610	11430	11170
15	11140	11150	11260	11270	11220	11240	11720	11760	11680	11620	11420	11160
16	11130	11150	11260	11270	11230	11270	11720	11760	11680	11610	11410	11160
17	11130	11190	11250	11300	11230	11290	11730	11750	11690	11610	11410	11150
18	11130	11200	11270	11310	11230	11300	11740	11750	11690	11600	11400	11150
19	11120	11200	11280	11300	11240	11320	11740	11750	11690	11600	11390	11140
20	11110	11220	11280	11300	11250	11340	11740	11750	11690	11590	11380	e11130
21	11110	11200	11280	11290	11250	11360	11740	11750	11690	11580	11350	e11120
22	11090	11200	11280	11280	11240	11390	11740	11750	11680	11570	11340	e11110
23	11090	11200	11270	11280	11230	11410	11750	11740	11680	11570	11330	e11100
24	11080	11200	11280	11280	11220	11430	11760	11740	11680	11570	11320	e11100
25	11100	11200	11280	11270	11210	11450	11760	11740	11670	11560	11310	e11090
26	11160	11180	11280	11270	11200	11470	11760	11740	11670	11560	11300	e11070
27	11150	11200	11270	11260	11200	11490	11760	11740	11670	11550	11300	e11070
28	11150	11220	11270	11250	11190	11500	11770	11730	11650	11550	11290	e11060
29	11140	11200	11280	11250	11190	11520	11740	11730	11650	11550	11280	e11050
30	11140	11190	11270	11240	---	11570	11760	11730	11650	11540	11280	e11050
31	11140	---	11270	11230	---	11600	---	11730	---	11530	11270	---
MAX	11240	11220	11280	11310	11250	11600	11770	11770	11730	11650	11520	11270
MIN	11080	11140	11200	11230	11170	11140	11610	11730	11650	11530	11270	11050
#	7836.30	7836.43	7836.63	7836.53	7836.41	7837.49	7837.93	7837.84	7837.62	7837.31	7836.33	7836.04
##	-100	+50	+80	-40	-40	+410	+160	-30	-80	-120	-260	-220

CAL YR 1991 MAX 11860 MIN 11020 ## +250
WTR YR 1992 MAX 11770 MIN 11050 ## -190

Elevation, in feet, above sea level, at month end at 2400 hours
Change in contents in acre-feet
e Estimated

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.--2.86 mi².

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NV-80-1.

GAGE.--Water-stage recorder. Elevation of gage is 7,760 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow regulated at Marlette Lake 300 ft upstream. No flow occurred July 12-15, 1975 and August 31 through September 5, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.4 ft³/s, April 29, 30, gage height, 1.68 ft; minimum daily, 0.01 ft³/s, August 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.71	.07	e.02	.03	.02	.16	.30	.08	.10	.02	.04
2	.03	.60	.08	e.02	.03	.02	.21	.43	.07	.10	.02	.10
3	.03	.06	.08	e.03	.03	.02	.23	.84	.08	.09	.03	.11
4	.03	.07	.09	e.03	.03	.02	.25	1.2	.07	.11	.04	.06
5	.03	.07	.06	e.02	.03	.03	.29	1.0	.09	.11	.03	.03
6	.03	.06	.06	e.02	.03	.03	.21	.90	.07	.09	.05	.03
7	.03	.06	.04	e.02	.03	.03	.10	.80	.08	.08	.05	.02
8	.04	.06	.04	e.02	.02	.03	.05	.69	.11	.08	.05	.03
9	.04	.06	.04	e.02	.02	.03	.06	.56	.11	.06	.05	.02
10	.04	.05	.04	e.02	.02	.05	.11	.40	.05	.05	.05	.03
11	.03	.04	.04	e.02	.02	.06	.17	.29	.03	.06	.05	.04
12	.03	.04	.04	e.02	.02	.06	.26	.18	.05	.11	.03	.06
13	.03	.03	.03	e.03	.02	.06	.22	.11	.08	.12	.03	.06
14	.03	.02	.03	e.03	.02	.06	.24	.05	.11	.13	.03	.05
15	.03	.02	.03	e.03	.02	.05	.31	.05	.11	.11	.03	.04
16	.03	.02	.03	e.03	.02	.04	.40	.04	.15	.07	.03	.05
17	.03	.03	.03	e.03	.02	.04	.61	.04	.13	.05	.03	.06
18	.02	.03	.04	e.03	.02	.05	.51	.04	.12	.04	.02	.06
19	.03	.04	.03	e.03	.02	.06	.24	.05	.11	.09	.01	.06
20	.02	.06	.03	e.03	.02	.06	.31	.06	.09	.07	.02	.05
21	.03	.08	e.02	e.02	.02	.06	.42	.08	.07	.08	.03	.05
22	.03	.07	e.02	e.02	.02	.06	.56	.09	.04	.09	.03	.05
23	.06	.08	e.02	e.02	.02	.08	.66	.08	.03	.05	.02	.07
24	.06	.06	e.02	e.02	.02	.08	.76	.07	.04	.07	.02	.13
25	.03	.05	e.02	e.02	.02	.07	.97	.07	.06	.12	.02	.20
26	.14	.04	e.02	e.02	.02	.06	.81	.07	.07	.10	.02	.18
27	.20	.04	e.02	e.02	.02	.07	.96	.06	.05	.08	.02	.05
28	.19	.05	e.02	e.02	.02	.11	1.2	.06	.05	.11	.02	.04
29	.31	.06	e.02	e.03	.02	.13	1.3	.06	.06	.06	.02	.05
30	.69	.06	e.02	.03	---	.15	.47	.06	.10	.06	.02	.08
31	.73	---	e.02	.03	---	.12	---	.08	---	.03	.02	---
TOTAL	3.08	2.72	1.15	0.75	0.65	1.81	13.05	8.81	2.36	2.57	0.91	1.90
MEAN	.099	.091	.037	.024	.022	.058	.43	.28	.079	.083	.029	.063
MAX	.73	.71	.09	.03	.03	.15	1.3	1.2	.15	.13	.05	.20
MIN	.02	.02	.02	.02	.02	.02	.05	.04	.03	.03	.01	.02
AC-FT	6.1	5.4	2.3	1.5	1.3	3.6	26	17	4.7	5.1	1.8	3.8

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	.57	1.58	1.95	2.79	4.26	3.81	3.95	4.43	3.76	1.38	.39	.28							
MAX	3.55	12.2	9.71	5.85	17.4	8.35	7.13	10.7	29.8	12.9	4.18	3.46							
(WY)	1984	1984	1984	1980	1986	1983	1982	1983	1983	1983	1983	1983							
MIN	.022	.030	.022	.020	.015	.040	.019	.11	.040	.014	.022	.020							
(WY)	1988	1991	1991	1991	1991	1977	1991	1977	1976	1990	1990	1975							

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1974 - 1992
ANNUAL TOTAL	51.89	39.76	
ANNUAL MEAN	.14	.11	2.42
HIGHEST ANNUAL MEAN			8.29
LOWEST ANNUAL MEAN			.058
HIGHEST DAILY MEAN	1.9 May 30	1.3 Apr 29	63 Feb 19 1986
LOWEST DAILY MEAN	.01 Feb 15	.01 Aug 19	.00 Jul 12 1975
ANNUAL SEVEN-DAY MINIMUM	.01 Feb 15	.02 Dec 21	.00 Aug 30 1988
INSTANTANEOUS PEAK FLOW		1.4 Apr 29	70 Feb 20 1986
INSTANTANEOUS PEAK STAGE		1.68 Apr 29	3.20 Feb 20 1986
INSTANTANEOUS LOW FLOW		.01 Aug 19	.00 Jul 12 1975
ANNUAL RUNOFF (AC-FT)	103	79	1750
10 PERCENT EXCEEDS	.32	.23	6.2
50 PERCENT EXCEEDS	.03	.05	.65
90 PERCENT EXCEEDS	.01	.02	.03

PYRAMID AND WINNEMUCCA LAKES BASIN

273

10336725 GLENBROOK CREEK AT OLD HIGHWAY 50 NEAR GLENBROOK, NV

LOCATION.--Lat 39°05'12", long 119°55'51", in SW 1/4 SW 1/4 sec.11, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 300 ft upstream of culvert on Old Highway 50, 0.5 mi east of Glenbrook, and 1.6 mi southwest of Spooner Lake.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1972-74, August 1989, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
MAR 13...	1100	0.50	655	8.3	13.0	4.5	10.2	0.010
APR 02...	1050	0.67	567	8.1	15.0	7.0	--	0.028
08...	1130	0.51	540	--	15.5	6.0	--	0.018
14...	1330	0.72	492	--	14.5	9.0	--	0.003
22...	1120	0.53	532	8.4	10.0	8.0	--	0.002
27...	1600	0.38	568	8.4	17.5	13.0	--	0.002
MAY 11...	1650	0.31	601	--	15.5	14.5	--	0.008
20...	1610	0.28	610	--	12.5	13.0	--	0.002
JUN 01...	1525	0.19	635	8.3	21.5	16.5	--	0.020
JUL 07...	1550	0.12	637	--	20.5	13.5	--	0.016
SEP 11...	1225	0.06	617	8.5	17.0	11.5	8.3	0.007

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
MAR 13...	<0.004	0.08	0.017	0.007	0.02	99	1	<0.01
APR 02...	0.002	0.11	0.029	0.009	0.03	226	3	0.01
08...	0.006	0.12	0.028	0.011	0.03	224	6	0.01
14...	0.001	0.15	0.027	0.006	0.02	109	4	0.01
22...	0.001	0.13	0.022	0.006	0.02	161	1	<0.01
27...	0.001	0.15	0.016	0.008	0.02	177	3	<0.01
MAY 11...	0.002	0.13	0.031	0.012	0.04	175	5	<0.01
20...	0.003	0.14	0.033	0.018	0.05	187	3	<0.01
JUN 01...	0.002	0.23	0.045	0.021	0.06	240	4	<0.01
JUL 07...	0.001	0.11	0.050	0.011	0.03	165	4	<0.01
SEP 11...	0.001	0.09	0.038	0.028	0.09	49	2	<0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336730 GLENBROOK CREEK AT GLENBROOK, NV

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 left bank, 50 ft upstream from culvert, 100 ft upstream from mouth at Glenbrook, and 1.8 mi southwest of Spooner Lake.

DRAINAGE AREA.--4.07 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1967-1971. October 1971 to September 1975, November 1987 to current year,

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above sea level, from topographic map. Prior to November 16, 1987, at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow may be affected by pumping or diverting for irrigation above station. Minimum daily for period of record 0.02 ft³/s, several days in August and September 1990, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	1100	*6.2	*1.71	No other peak greater than base discharge.			
Minimum daily, 0.02 ft ³ /s, Aug. 19-20, Sept. 1-3.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.27	.44	.45	.40	.75	1.2	.31	.17	.21	.03	.02
2	.14	.21	.50	.41	.40	.69	1.1	.33	.17	.33	.04	.02
3	.15	.20	.50	.42	.39	.72	1.1	.33	.16	.23	.04	.02
4	.13	.24	.49	.37	.43	.70	1.1	.33	.13	.08	.04	.03
5	.13	.30	.44	.37	.46	.69	.96	.32	.11	.12	.03	.03
6	.13	.35	.49	.33	.48	.71	.87	.31	.15	.11	.04	.03
7	.11	.35	.49	.33	.55	.63	.82	.37	.17	.12	.04	.03
8	.11	.34	.48	.30	.59	.60	.88	.37	.18	.11	.03	.03
9	.11	.46	.51	.33	.49	.59	.87	.38	.14	.10	.06	.03
10	.13	.43	.43	.33	.48	.59	.87	.38	.18	.07	.05	.03
11	.13	.35	.42	.34	.56	.59	.84	.40	.10	.09	.04	.03
12	.14	.33	.43	.36	.60	.58	.78	.43	.11	.11	.05	.04
13	.12	.38	.40	.38	.61	.60	.77	.43	.12	.10	.08	.05
14	.12	.43	.38	.38	.60	.61	.60	.44	.36	.09	.07	.05
15	.10	.46	.36	.40	.73	.61	.44	.43	.74	.12	.09	.06
16	.11	.49	.33	.41	.66	.61	.40	.34	.52	.09	.05	.07
17	.12	.91	.35	.45	.55	.61	.46	.33	.52	.10	.09	.09
18	.14	.70	.40	.41	.49	.61	.51	.34	.64	.07	.08	.18
19	.14	.59	.35	.35	.62	.60	.41	.31	.57	.06	.02	.11
20	.15	.81	.30	.34	1.1	.54	.38	.32	.30	.06	.02	.10
21	.20	.90	.31	.38	1.2	.56	.38	.31	.23	.06	.03	.13
22	.21	.65	.35	.31	1.9	.69	.36	.36	.17	.05	.03	.13
23	.32	.58	.33	.31	1.0	.66	.33	.39	.13	.05	.04	.11
24	.47	.56	.28	.34	.85	.55	.34	.26	.16	.04	.03	.10
25	.59	.57	.29	.33	.81	.58	.37	.31	.17	.04	.03	.08
26	2.5	.61	.33	.32	.75	.66	.33	.26	.17	.04	.03	.11
27	.54	.62	.38	.29	.72	.68	.33	.21	.16	.04	.04	.15
28	.28	.50	.36	.38	.75	.72	.33	.21	.15	.03	.04	.20
29	.22	.47	.40	.44	.75	.78	.33	.21	.19	.03	.05	.24
30	.25	.43	.43	.45	---	.89	.33	.20	.23	.03	.05	.23
31	.28	---	.47	.45	---	1.4	---	.19	---	.03	.03	---
TOTAL	8.40	14.49	12.42	11.46	19.92	20.80	18.79	10.11	7.30	2.81	1.39	2.53
MEAN	.27	.48	.40	.37	.69	.67	.63	.33	.24	.091	.045	.084
MAX	2.5	.91	.51	.45	1.9	1.4	1.2	.44	.74	.33	.09	.24
MIN	.10	.20	.28	.29	.39	.54	.33	.19	.10	.03	.02	.02
AC-FT	17	29	25	23	40	41	37	20	14	5.6	2.8	5.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	.67	.82	.87	.89	.94	1.50	1.94	2.83	1.16	.40	.28	.28									
MAX	1.33	1.26	1.69	1.70	1.49	2.49	3.53	10.7	5.04	1.39	1.00	.71									
(WY)	1972	1974	1974	1974	1973	1972	1973	1975	1975	1975	1975	1975									
MIN	.20	.39	.34	.32	.41	.66	.63	.33	.24	.076	.039	.084									
(WY)	1991	1991	1991	1991	1991	1991	1992	1992	1992	1991	1990	1992									

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1972 - 1992

ANNUAL TOTAL	140.06	130.42	
ANNUAL MEAN	.38	.36	1.10
HIGHEST ANNUAL MEAN			2.33
LOWEST ANNUAL MEAN			.36
HIGHEST DAILY MEAN	2.9 Mar 4	2.5 Oct 26	18 May 14 1975
LOWEST DAILY MEAN	.04 Aug 1	.02 Aug 19	.02 Aug 13 1990
ANNUAL SEVEN-DAY MINIMUM	.04 Aug 1	.03 Aug 31	.02 Sep 13 1990
INSTANTANEOUS PEAK FLOW		6.2 Oct 26	25 May 14 1975
INSTANTANEOUS PEAK STAGE		1.71 Oct 26	2.32 May 14 1975
ANNUAL RUNOFF (AC-FT)	278	259	797
10 PERCENT EXCEEDS	.75	.70	2.1
50 PERCENT EXCEEDS	.35	.33	.71
90 PERCENT EXCEEDS	.07	.04	.15

PYRAMID AND WINNEMUCCA LAKES BASIN

275

10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, July 1987, water years 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
08...	0845	0.12	496	--	8.0	8.0	--	--	--	--	--	--
15...	1215	0.09	516	8.1	20.0	9.0	--	--	<0.004	--	<0.004	0.11
NOV												
08...	0945	0.40	579	8.0	10.5	6.0	9.0	91	0.008	<0.004	<0.004	0.13
DEC												
06...	1145	0.48	664	8.0	1.5	2.0	9.8	90	0.007	--	<0.004	0.07
13...	0946	0.39	608	--	-3.5	1.0	--	--	--	--	--	--
JAN												
28...	0920	0.43	593	8.2	2.5	1.5	10.4	93	0.005	--	<0.004	0.07
FEB												
20...	1230	0.88	588	7.9	10.0	3.5	9.8	94	0.032	<0.004	<0.004	0.16
27...	1230	0.68	670	8.1	13.0	4.5	9.7	94	0.006	--	<0.004	0.10
MAR												
06...	1305	0.65	620	--	7.0	3.0	--	--	--	--	--	--
13...	1210	0.61	637	8.3	11.0	6.5	9.1	94	0.006	--	<0.004	0.08
24...	1030	0.54	643	8.1	10.5	5.5	9.5	96	0.008	0.009	0.007	0.10
APR												
02...	1145	1.0	560	7.9	17.0	8.0	--	--	0.010	--	0.001	0.12
08...	1215	0.83	538	--	16.0	7.0	--	--	0.007	0.005	0.004	0.16
10...	1306	0.80	540	--	13.0	8.5	--	--	--	--	--	--
14...	1450	0.71	494	--	13.0	10.5	--	--	0.004	--	0.001	0.17
22...	0950	0.38	531	8.1	11.0	5.0	--	--	0.004	0.006	0.001	0.12
27...	1450	0.33	557	8.1	19.0	14.0	--	--	0.003	--	0.001	0.18
MAY												
06...	1750	0.29	590	8.1	13.0	13.0	--	--	0.003	--	0.001	0.41
11...	1510	0.39	595	--	17.0	14.0	--	--	0.006	0.007	0.002	0.16
20...	1720	0.29	599	--	11.0	11.5	--	--	0.002	--	0.003	0.16
26...	1442	0.22	604	--	22.0	13.0	--	--	--	--	--	--
JUN												
01...	1425	0.18	618	8.2	20.0	14.5	--	--	0.024	--	0.016	0.28
15...	1400	0.75	580	8.1	2.0	5.5	--	--	0.021	--	0.010	0.84
16...	1540	0.38	616	8.2	17.0	9.5	--	--	0.009	0.008	0.005	0.19
JUL												
07...	1430	0.10	618	--	19.0	12.0	--	--	0.022	--	0.001	0.15
16...	1415	0.08	604	--	19.0	14.0	--	--	--	--	--	--
21...	0900	0.08	589	8.2	11.0	9.5	--	--	0.029	--	0.010	0.17
AUG												
21...	0955	0.04	581	8.2	19.0	11.0	--	--	0.015	0.007	0.005	0.11
SEP												
11...	1400	0.03	592	8.0	20.5	12.0	6.0	71	0.009	--	0.001	0.12

PYRAMID AND WINNEMUCCA LAKES BASIN

10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS HYDRO. + ORTHO DIS. (MG/L AS P)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	0.036	--	--	0.021	0.06	--	340	--	2	<0.01
NOV 08...	0.08	0.027	0.022	0.017	0.015	0.05	0.02	385	270	1	<0.01
DEC 06...	--	0.024	--	--	0.012	0.04	--	448	--	1	<0.01
13...	--	--	--	--	--	--	--	--	--	--	--
JAN 28...	--	0.021	--	--	0.011	0.03	--	327	--	3	<0.01
FEB 20...	0.11	0.039	0.023	0.017	0.014	0.04	0.02	519	140	3	0.01
27...	--	0.020	--	--	0.010	0.03	--	257	--	4	0.01
MAR 06...	--	--	--	--	--	--	--	--	--	--	--
13...	--	0.019	--	--	0.009	0.03	--	265	--	3	<0.01
24...	0.07	0.025	0.019	0.011	0.009	0.03	0.01	344	190	2	<0.01
APR 02...	--	0.026	--	--	0.010	0.03	--	299	--	2	0.01
08...	0.13	0.029	0.020	0.010	0.010	0.03	0.01	170	110	5	0.01
10...	--	--	--	--	--	--	--	--	--	--	--
14...	--	0.028	--	--	0.009	0.03	--	283	--	3	0.01
22...	0.08	0.024	0.018	0.011	0.009	0.03	0.01	322	120	2	<0.01
27...	--	0.023	--	--	0.010	0.03	--	412	--	6	0.01
MAY 06...	--	0.077	--	--	0.012	0.04	--	1420	--	14	0.01
11...	0.09	0.037	0.021	0.019	0.013	0.04	0.01	502	36	5	0.01
20...	--	0.038	--	--	0.016	0.05	--	402	--	4	<0.01
26...	--	--	--	--	--	--	--	--	--	--	--
JUN 01...	--	0.055	--	--	0.021	0.06	--	587	--	6	<0.01
15...	--	0.168	--	--	0.050	0.15	--	3550	--	53	0.11
16...	0.15	0.055	0.036	0.023	0.017	0.05	0.02	575	54	6	0.01
JUL 07...	--	0.054	--	--	0.010	0.03	--	418	--	3	<0.01
16...	--	--	--	--	--	--	--	--	--	--	--
21...	--	0.071	--	--	0.023	0.07	--	690	--	15	<0.01
AUG 21...	0.09	0.057	0.041	0.037	0.025	0.08	0.03	466	14	1	<0.01
SEP 11...	--	0.047	--	--	0.011	0.03	--	644	--	4	<0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

277

10336735 NORTH LOGAN HOUSE CREEK AT HIGHWAY 50 NEAR GLENBROOK, NV

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.--Not determined.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR								
13...	1415	0.91	91	8.4	11.0	3.5	0.058	<0.004
APR								
02...	1825	1.2	90	7.8	10.0	6.0	0.050	0.002
07...	1800	0.93	89	--	11.5	6.0	0.056	0.004
14...	1200	1.0	87	--	8.0	4.0	0.051	0.001
22...	1420	0.81	89	8.2	9.0	4.5	0.024	0.001
27...	1325	0.52	91	8.1	15.5	6.5	0.027	0.001
MAY								
11...	1920	0.44	95	--	12.0	10.0	0.019	0.001
20...	1505	0.46	93	--	11.0	8.0	0.004	0.003
JUL								
08...	1130	0.02	111	--	17.5	9.0	0.016	0.002
SEP								
11...	1142	0.0	--	--	--	--	--	--

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
MAR							
13...	0.26	0.025	0.006	0.02	403	9	0.02
APR							
02...	0.59	0.039	0.008	0.02	1110	30	0.10
07...	0.34	0.032	0.009	0.03	581	13	0.03
14...	0.32	0.029	0.005	0.02	183	10	0.03
22...	0.29	0.026	0.004	0.01	322	6	0.01
27...	0.27	0.017	0.003	0.01	341	8	0.01
MAY							
11...	0.27	0.025	0.004	0.01	337	11	0.01
20...	0.21	0.026	0.006	0.02	265	11	0.01
JUL							
08...	0.10	0.032	0.006	0.02	119	3	<0.01
SEP							
11...	--	--	--	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

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.--2.08 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,640 ft above sea level, from topographic map.

REMARKS.--Records poor. One small diversion 50 ft upstream from station for domestic use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	1015	*0.63	*4.17				
No flow many days.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.09	e.00	e.00	e.08	e.14	.33	.00	.00	.05	.01	.00
2	.05	.09	e.00	e.00	e.09	e.14	.31	.00	.00	.00	.01	.00
3	.05	.09	e.00	e.00	e.09	e.14	.32	.00	.00	.00	.01	.00
4	.05	.09	e.00	e.00	e.09	e.14	.27	.00	.00	.00	.00	.00
5	.05	.09	e.00	e.00	e.09	e.14	.21	.00	.00	.01	.01	.00
6	.05	.09	e.00	e.00	e.09	e.13	.19	.00	.00	.03	.01	.00
7	.05	.09	e.00	e.00	e.10	e.13	.20	.00	.00	.02	.00	.02
8	.05	.09	e.00	e.00	e.11	e.12	.22	.00	.00	.02	.01	.03
9	.05	.09	e.00	e.00	e.11	e.12	.23	.00	.00	.02	.00	.03
10	.06	.09	e.00	e.01	e.12	e.12	.23	.01	.00	.02	.00	.03
11	.06	.09	e.00	e.01	e.12	e.11	.24	.02	.00	.03	.00	.03
12	.03	.09	e.00	e.02	e.12	e.11	.21	.02	.00	.04	.00	.03
13	.00	.09	e.00	e.02	e.12	e.11	.21	.02	.00	.02	.00	.03
14	.00	.09	e.00	e.04	e.12	e.11	.20	.01	.00	.00	.00	.02
15	.00	.09	e.00	e.05	e.12	e.11	.17	.00	.01	.00	.00	.00
16	.00	.09	e.00	e.07	e.12	e.11	.16	.00	.01	.00	.01	.00
17	.00	.09	e.00	e.10	e.12	.11	.18	.00	.00	.00	.00	.00
18	.00	.09	e.00	e.10	e.12	.11	.17	.00	.00	.00	.00	.00
19	.00	.09	e.00	e.09	e.12	.11	.12	.00	.00	.00	.00	.00
20	.00	.07	e.00	e.09	e.12	.11	.11	.00	.00	.00	.00	.00
21	.03	.00	e.00	e.09	e.12	.11	.11	.00	.00	.00	.00	.03
22	.07	.00	e.00	e.09	e.12	.11	.06	.00	.00	.00	.00	.05
23	.07	.00	e.00	e.09	e.13	.11	.00	.01	.00	.01	.00	.05
24	.07	.00	e.00	e.08	e.13	.11	.00	.00	.00	.02	.00	.07
25	.09	.00	e.00	e.08	e.13	.12	.00	.03	.00	.01	.00	.07
26	.30	.00	e.00	e.07	e.13	.14	.00	.07	.00	.01	.00	.07
27	.11	.00	e.00	e.07	e.13	.19	.00	.06	.02	.01	.00	.04
28	.09	.00	e.00	e.07	e.13	.24	.00	.06	.04	.01	.00	.03
29	.09	.00	e.00	e.07	e.13	.21	.00	.06	.05	.01	.00	.03
30	.09	.00	e.00	e.07	---	.17	.00	.03	.06	.01	.00	.03
31	.09	---	e.00	e.08	---	.24	---	.00	---	.01	.00	---
TOTAL	1.70	1.78	0.00	1.46	3.32	4.17	4.45	0.40	0.19	0.36	0.07	0.69
MEAN	.055	.059	.000	.047	.11	.13	.15	.013	.006	.012	.002	.023
MAX	.30	.09	.00	.10	.13	.24	.33	.07	.06	.05	.01	.07
MIN	.00	.00	.00	.00	.08	.11	.00	.00	.00	.00	.00	.00
AC-FT	3.4	3.5	.00	2.9	6.6	8.3	8.8	.8	.4	.7	.1	1.4

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1992, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	.35	.42	.39	.38	.39	.58	1.09	.79	.33	.17	.13	.17
MAX	1.04	1.48	1.49	1.25	1.00	1.58	2.71	2.37	1.12	.60	.45	.50
(WY)	1984	1984	1984	1984	1984	1986	1986	1984	1984	1984	1984	1986
MIN	.042	.059	.000	.047	.067	.093	.15	.013	.006	.009	.000	.008
(WY)	1989	1992	1992	1992	1991	1991	1992	1992	1992	1991	1988	1988

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1984 - 1992

ANNUAL TOTAL	29.87	18.59	
ANNUAL MEAN	.082	.051	.43
HIGHEST ANNUAL MEAN			1.20
LOWEST ANNUAL MEAN			.051
HIGHEST DAILY MEAN	.61 Apr 23	.33 Apr 1	4.6 Apr 22 1986
LOWEST DAILY MEAN	.00 Jan 4	.00 Oct 13	.00 Jul 13 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 22	.00 Oct 13	.00 Jul 13 1988
INSTANTANEOUS PEAK FLOW		.63 Oct 26	6.4 Apr 22 1986
INSTANTANEOUS PEAK STAGE		4.17 Oct 26	5.49 Dec 30 1990
ANNUAL RUNOFF (AC-FT)	59	37	313
10 PERCENT EXCEEDS	.27	.13	1.1
50 PERCENT EXCEEDS	.05	.02	.23
90 PERCENT EXCEEDS	.00	.00	.01

PYRAMID AND WINNEMUCCA LAKES BASIN

279

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
07...	1455	0.05	157	--	17.0	3.5	--	--	--	--	--	--
15...	1530	0.0	--	--	--	--	--	--	--	--	--	--
NOV												
08...	1045	0.09	146	8.4	12.0	4.5	9.6	95	<0.004	<0.004	<0.004	0.07
DEC												
06...	1420	0.0	--	--	--	--	--	--	--	--	--	--
10...	1230	0.0	--	--	--	--	--	--	--	--	--	--
12...	1630	0.0	--	--	--	--	--	--	--	--	--	--
JAN												
27...	1440	0.07	149	8.4	9.0	0.5	11.3	100	0.044	--	<0.004	0.06
FEB												
21...	1645	0.12	148	--	5.0	1.0	11.2	100	0.038	<0.004	<0.004	0.08
MAR												
06...	1141	0.13	--	--	6.0	1.0	--	--	--	--	--	--
13...	1315	0.11	156	8.4	14.5	2.0	10.2	95	0.063	--	<0.004	0.09
16...	1340	0.09	--	--	8.5	2.0	--	--	--	--	--	--
25...	1600	0.11	154	8.1	8.0	2.5	10.1	96	0.056	<0.004	<0.004	0.15
APR												
01...	1700	0.36	133	8.3	16.5	3.5	--	--	0.050	--	0.002	0.77
02...	1905	0.41	126	8.2	9.0	3.0	--	--	0.047	--	0.002	0.84
07...	1850	0.24	128	--	8.5	3.5	--	--	0.044	0.002	0.003	0.37
10...	1210	0.21	135	--	13.0	4.0	--	--	--	--	--	--
14...	1030	0.19	126	--	8.5	3.0	--	--	0.034	--	0.003	0.27
22...	1250	0.09	136	8.2	9.5	4.0	--	--	0.013	--	0.001	0.17
27...	1223	0.0	--	--	--	--	--	--	--	--	--	--
28...	2000	0.05	146	8.2	15.0	6.5	--	--	0.015	0.001	<0.001	0.15
MAY												
11...	1810	0.05	155	--	13.0	7.5	--	--	0.013	--	0.001	0.11
20...	1400	0.04	155	--	15.0	7.0	--	--	0.006	--	0.003	0.09
26...	1246	0.07	155	--	27.5	9.0	--	--	--	--	--	--
JUN												
01...	1300	0.02	155	8.2	22.0	11.0	--	--	0.016	0.008	0.001	0.09
16...	1400	0.01	150	8.3	15.0	7.0	--	--	0.013	--	0.004	0.20
16...	1440	0.02	154	8.3	15.0	6.0	--	--	0.015	--	0.005	0.18
17...	1857	0.0	--	--	--	--	--	--	--	--	--	--
JUL												
08...	1015	0.04	160	8.3	15.5	8.0	--	--	0.013	0.007	0.001	0.09
16...	1145	0.05	160	--	21.5	11.0	--	--	--	--	--	--
21...	1020	0.03	159	--	13.0	10.0	--	--	0.015	--	0.006	0.05
AUG												
11...	1400	0.0	--	--	--	--	--	--	--	--	--	--
14...	1620	0.0	--	--	--	--	--	--	--	--	--	--
24...	0715	0.0	--	--	--	--	--	--	--	--	--	--
SEP												
11...	1010	0.04	155	8.2	17.0	8.0	8.2	89	0.008	--	0.001	0.06

PYRAMID AND WINNEMUCCA LAKES BASIN

10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS HYDRO. + ORTHO DIS. (MG/L AS P)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	0.05	0.008	0.005	<0.001	0.001	<0.01	<0.01	30	17	1	<0.01
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
JAN											
27...	--	0.009	--	--	0.004	0.01	--	18	--	<1	--
FEB											
21...	0.06	0.017	0.014	0.005	0.005	0.02	<0.01	41	11	1	<0.01
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
13...	--	0.009	--	--	0.002	0.01	--	27	--	1	<0.01
16...	--	--	--	--	--	--	--	--	--	--	--
25...	0.10	0.019	0.012	0.005	0.004	0.01	0.01	66	10	2	<0.01
APR											
01...	--	0.036	--	--	0.003	0.01	--	515	--	20	0.02
02...	--	0.036	--	--	0.004	0.01	--	574	--	22	0.02
07...	0.22	0.025	0.016	0.004	0.005	0.02	<0.01	209	19	9	0.01
10...	--	--	--	--	--	--	--	--	--	--	--
14...	--	0.018	--	--	0.003	0.01	--	300	--	2	<0.01
22...	--	0.018	--	--	0.003	0.01	--	57	--	3	<0.01
27...	--	--	--	--	--	--	--	--	--	--	--
28...	0.12	0.011	0.003	0.003	0.002	0.01	<0.01	64	15	2	<0.01
MAY											
11...	--	0.013	--	--	0.003	0.01	--	29	--	2	<0.01
20...	--	0.013	--	--	0.004	0.01	--	32	--	2	<0.01
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	0.07	0.019	0.017	0.005	0.005	0.02	<0.01	22	7.7	<1	--
16...	--	0.028	--	--	0.003	0.01	--	183	--	4	<0.01
16...	--	0.022	--	--	0.006	0.02	--	66	--	5	<0.01
17...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	0.07	0.028	0.028	0.006	0.004	0.01	<0.01	43	15	2	<0.01
16...	--	--	--	--	--	--	--	--	--	--	--
21...	--	0.034	--	--	0.006	0.02	--	22	--	5	<0.01
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
SEP											
11...	--	0.015	--	--	0.002	0.01	--	41	--	1	<0.01

E: ESTIMATED

PYRAMID AND WINNEMUCCA LAKES BASIN

281

10336750 EDGEWOOD CREEK BELOW SOUTH BENJAMIN DRIVE NEAR DAGGETT PASS, NV

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.--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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR								
11...	1430	0.19	200	8.2	10.0	3.5	0.066	0.058
APR								
02...	1630	0.59	114	8.3	10.5	4.0	0.101	0.024
07...	1340	0.45	125	--	20.0	6.0	0.068	0.034
10...	0930	0.41	122	--	14.0	3.0	0.090	0.026
14...	1315	0.48	117	--	18.0	7.5	0.066	0.030
17...	0210	0.50	--	--	--	--	0.061	0.035
21...	1020	0.33	116	--	10.5	5.0	0.056	0.005
28...	1810	0.35	100	8.3	18.0	8.5	0.035	0.021
MAY								
06...	1310	0.18	134	7.9	16.5	11.0	0.038	0.036
13...	1700	0.16	135	--	18.0	10.0	0.037	0.044
20...	1220	0.14	129	--	13.5	8.5	0.031	0.003
JUN								
05...	1600	0.08	119	--	20.0	9.5	0.010	0.003
JUL								
07...	1245	0.39	86	--	16.5	12.0	0.032	0.012
SEP								
14...	1045	0.09	109	7.9	16.0	6.0	0.011	<0.001

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR								
11...	0.27	0.074	0.014	0.04	2980	26	0.01	--
APR								
02...	1.1	0.617	0.007	0.02	10200	203	0.32	95
07...	0.84	0.470	0.011	0.03	8090	162	0.20	79
10...	0.36	0.164	0.009	0.03	2550	61	0.07	97
14...	1.2	0.264	0.013	0.04	4530	151	0.20	--
17...	--	0.201	0.032	0.10	--	769	1.0	10
21...	0.44	0.225	0.014	0.04	2020	186	0.17	--
28...	0.59	0.187	0.012	0.04	9360	2080	2.0	--
MAY								
06...	0.19	0.051	0.016	0.05	2010	18	0.01	--
13...	0.23	0.034	0.016	0.05	1400	15	0.01	--
20...	0.18	0.033	0.012	0.04	1060	15	0.01	--
JUN								
05...	0.12	0.023	0.005	0.02	589	4	<0.01	--
JUL								
07...	0.69	0.270	0.013	0.04	9890	245	0.26	60
SEP								
14...	0.08	0.023	0.004	0.01	399	3	<0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336756 EDGEWOOD CREEK TRIBUTARY NEAR DAGGETT PASS, NV

LOCATION.--Lat 38°58'32", long 119°54'00", in SE 1/4 NE 1/4 sec.24, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 300 ft upstream of culvert on Kingsbury Grade, 1.2 ml upstream of mouth with Edgewood Creek, 0.7 ml west of Daggett Pass, and 2.4 ml northeast of Stateline.

DRAINAGE AREA.--0.80 mi².

PERIOD OF RECORD.--Water years 1981-83, 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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR								
11...	1530	0.01	272	8.2	10.0	1.5	0.014	<0.004
APR								
02...	1730	0.08	203	8.2	3.0	10.0	0.006	0.002
07...	1515	0.02	209	--	15.0	13.0	0.004	0.001
10...	1100	0.01	210	--	11.5	3.0	0.004	0.001
14...	1415	0.0	--	--	--	--	--	--
21...	1125	0.0	--	--	--	--	--	--
28...	1800	0.0	--	--	--	--	--	--
MAY								
06...	1430	0.0	--	--	--	--	--	--
13...	1745	0.0	--	--	--	--	--	--

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
MAR							
11...	0.21	0.026	0.014	0.04	79	9	<0.01
APR							
02...	0.28	0.029	0.011	0.03	27	1	<0.01
07...	0.20	0.035	0.012	0.04	186	12	<0.01
10...	0.19	0.033	0.008	0.03	124	4	<0.01
14...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
MAY							
06...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--

PYRAMID AND WINNEMUCCA LAKES BASIN

283

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV

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.--1.77 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,640 ft above sea level, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.5 ft³/s, October 26, gage height 1.17 ft; minimum daily, 0.08 ft³/s, August 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.40	.56	.43	.52	.68	.97	.55	.27	.26	.12	.25
2	.23	.38	.49	.43	.54	.68	.87	.55	.25	.25	.11	.25
3	.23	.40	.41	.43	.57	.68	.86	.51	.26	.25	.10	e.20
4	.23	.43	.43	.43	.49	.68	.80	.50	.23	.24	.10	.15
5	.26	.43	.45	.43	.49	.68	.73	.49	.22	.21	.11	.14
6	.28	.43	.53	.43	.51	.73	.72	.53	.23	.21	.09	.12
7	.30	.41	.49	.43	.55	.77	.71	.57	.21	.23	.09	.11
8	.33	.68	.39	.43	.49	.76	.71	.54	.21	.20	.09	.11
9	.33	.49	.35	.43	.49	.65	.72	.53	.19	.18	.09	.10
10	.35	.49	.37	.43	.49	.61	.71	.51	.18	.21	.08	.10
11	.37	.41	.47	.43	.49	.61	.70	.47	.18	.28	.08	.10
12	.38	.34	.45	.54	.49	.64	.74	.46	.19	.38	.10	.11
13	.39	.39	.38	.43	.49	.67	.83	.42	.21	.26	.15	.11
14	.38	.43	.38	.43	.48	.61	.77	.41	.36	.28	.19	.15
15	.39	.43	.38	.46	.54	.56	.74	.41	.61	.27	.19	.17
16	.39	.50	.38	.49	.43	.55	.73	.41	.37	.25	.15	.15
17	.41	.63	.38	.49	.50	.55	.90	.39	.32	.24	.11	.18
18	.42	.61	.38	.49	.43	.55	.81	.36	.28	.21	.10	.22
19	.42	.56	.38	.49	.52	.49	.78	.37	.23	.17	.09	.15
20	.46	.84	.38	.44	.75	.49	.79	.40	.21	.17	.14	.13
21	.47	.87	.38	.43	.72	.52	.81	.39	.19	.17	.17	.12
22	.48	.75	.41	.47	.68	.56	.75	.36	.18	.17	.22	.11
23	.49	.70	.43	.49	.61	.61	.70	.34	.20	.18	.25	.12
24	.49	.71	.43	.49	.62	.55	.70	.32	.52	.19	.24	.12
25	.52	.47	.43	.49	.68	.55	.75	.36	.33	.17	.22	.15
26	2.0	.43	.43	.49	.68	.62	.72	.34	.26	.14	.21	.14
27	.29	.52	.43	.49	.68	.70	.69	.31	.24	.12	.21	.14
28	.21	.53	.43	.49	.68	.86	.67	.33	.25	.13	.22	.13
29	.23	.53	.43	.49	.68	.72	.58	.35	.27	.13	.28	.13
30	.30	.45	.43	.49	---	.75	.55	.28	.28	.13	.32	.13
31	.41	---	.43	.50	---	1.0	---	.29	---	.12	.37	---
TOTAL	12.67	15.64	13.09	14.31	16.29	20.08	22.51	13.05	7.93	6.40	4.99	4.29
MEAN	.41	.52	.42	.46	.56	.65	.75	.42	.26	.21	.16	.14
MAX	2.0	.87	.56	.54	.75	1.0	.97	.57	.61	.38	.37	.25
MIN	.21	.34	.35	.43	.43	.49	.55	.28	.18	.12	.08	.10
AC-FT	25	31	26	28	32	40	45	26	16	13	9.9	8.5

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

MEAN	.62	.64	.57	.55	.55	.78	1.03	.68	.38	.23	.30	.23
MAX	1.13	.93	.75	.70	.67	1.06	1.39	.87	.48	.25	.42	.35
(WY)	1990	1990	1990	1990	1990	1990	1990	1991	1990	1990	1991	1990
MIN	.33	.48	.42	.46	.42	.62	.75	.42	.26	.21	.16	.14
(WY)	1991	1991	1992	1992	1991	1991	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	180.72	151.25	
ANNUAL MEAN	.50	.41	.55
HIGHEST ANNUAL MEAN			.73
LOWEST ANNUAL MEAN			.41
HIGHEST DAILY MEAN	5.8 Aug 14	2.0 Oct 26	5.8 Aug 14 1991
LOWEST DAILY MEAN	.13 Aug 8	.08 Aug 10	.08 Aug 10 1992
ANNUAL SEVEN-DAY MINIMUM	.14 Aug 6	.09 Aug 6	.09 Aug 6 1992
INSTANTANEOUS PEAK FLOW		4.5 Oct 26	.57 Aug 14 1991
INSTANTANEOUS PEAK STAGE		1.17 Oct 26	2.61 Aug 14 1991
ANNUAL RUNOFF (AC-FT)	358	300	395
10 PERCENT EXCEEDS	.88	.71	.94
50 PERCENT EXCEEDS	.43	.42	.49
90 PERCENT EXCEEDS	.19	.14	.19

PYRAMID AND WINNEMUCCA LAKES BASIN

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV-Continued

WATER-QUALITY RECORDS

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT										
04...	1436	0.21	--	--	21.0	--	--	--	--	--
15...	1440	0.38	121	8.3	23.0	8.5	--	--	0.004	<0.004
NOV										
07...	1125	0.41	117	--	9.5	4.5	--	--	--	--
08...	1400	0.76	108	8.4	14.0	6.0	9.9	102	0.006	<0.004
DEC										
06...	1515	0.55	111	8.4	2.0	2.0	10.3	96	0.004	<0.004
10...	1023	0.45	108	--	0.0	2.0	--	--	--	--
JAN										
27...	1250	0.50	120	8.4	6.5	2.0	10.5	97	0.029	0.005
FEB										
19...	1500	0.72	164	--	4.0	2.0	10.8	100	0.039	0.007
21...	1540	0.68	203	--	4.0	3.0	--	--	0.037	0.008
MAR										
11...	1330	0.58	145	8.3	11.0	4.0	9.7	95	0.038	<0.004
25...	1450	0.55	132	8.4	9.0	4.5	--	--	0.031	<0.004
APR										
02...	1540	0.94	129	8.4	19.5	6.5	--	--	0.108	0.001
07...	1715	0.68	119	--	13.0	6.0	--	--	0.058	0.005
10...	1025	0.72	125	--	12.0	4.5	--	--	--	--
10...	1240	0.61	114	--	14.0	5.5	--	--	0.047	0.001
14...	1230	0.61	114	--	16.0	5.0	--	--	0.042	0.004
17...	0120	1.0	111	--	--	--	--	--	0.045	0.006
21...	1200	0.73	113	--	14.0	6.5	--	--	0.011	0.005
28...	1715	0.76	115	8.3	20.0	10.5	--	--	0.021	0.004
MAY										
06...	1000	0.56	119	8.1	16.5	9.5	--	--	0.012	0.001
13...	1610	0.38	123	--	20.5	12.0	--	--	0.013	0.006
19...	1615	0.36	122	--	13.5	9.0	--	--	0.005	0.003
20...	1235	0.41	122	--	17.5	--	--	--	--	--
28...	1200	0.32	123	--	20.5	9.5	--	--	0.014	0.006
JUN										
05...	1220	0.17	124	8.1	21.5	12.0	--	--	0.011	0.007
14...	1450	0.55	118	--	6.0	5.0	--	--	0.046	0.002
15...	1655	1.1	106	7.9	9.0	4.5	--	--	0.030	0.003
16...	1315	0.34	116	8.5	12.0	6.5	--	--	0.018	0.004
24...	1645	2.0	69	--	--	--	--	--	0.093	0.045
JUL										
02...	1355	0.23	121	8.3	18.0	9.0	--	--	0.019	0.002
12...	0935	0.61	118	--	12.0	9.0	--	--	0.026	0.001
15...	1440	0.22	118	--	19.0	12.5	--	--	--	--
21...	1320	0.17	124	--	20.0	10.0	--	--	0.025	0.008
AUG										
20...	1000	0.18	118	7.9	19.5	9.5	--	--	0.017	0.002
SEP										
14...	1230	0.18	118	8.0	20.0	8.0	8.7	94	0.004	<0.001

PYRAMID AND WINNEMUCCA LAKES BASIN

285

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
04...	--	--	--	--	--	--	--	--	--	--
15...	0.06	0.028	--	--	0.014	0.04	378	2	<0.01	--
NOV										
07...	--	--	--	--	--	--	--	--	--	--
08...	0.23	0.043	--	--	0.012	0.04	516	9	0.02	--
DEC										
06...	0.09	0.016	--	--	0.006	0.02	206	1	<0.01	--
10...	--	--	--	--	--	--	--	--	--	--
JAN										
27...	0.07	0.017	--	--	0.009	0.03	496	2	<0.01	--
FEB										
19...	0.17	0.049	--	--	0.012	0.04	765	15	0.03	--
21...	0.15	0.077	--	--	0.014	0.04	1070	21	0.04	--
MAR										
11...	0.11	0.020	--	--	0.010	0.03	337	2	<0.01	--
25...	0.13	0.030	--	--	0.005	0.02	690	3	0.01	--
APR										
02...	0.26	0.045	--	--	0.010	0.03	814	11	0.03	--
07...	0.19	0.039	--	--	0.011	0.03	642	7	0.01	--
10...	--	--	--	--	--	--	--	--	--	--
10...	0.13	0.031	--	--	0.005	0.02	642	5	0.01	--
14...	0.17	0.031	--	--	0.006	0.02	326	4	0.01	--
17...	0.41	0.034	--	--	0.012	0.04	509	6	0.02	--
21...	0.16	0.038	--	--	0.006	0.02	601	5	0.01	--
28...	0.22	0.038	--	--	0.012	0.04	944	10	0.02	--
MAY										
06...	0.12	0.037	--	--	0.010	0.03	620	7	0.01	--
13...	0.14	0.034	--	--	0.012	0.04	716	11	0.01	--
19...	0.18	0.033	--	--	0.010	0.03	663	8	0.01	--
20...	--	--	--	--	--	--	--	--	--	--
28...	0.13	0.034	--	--	0.007	0.02	675	9	0.01	--
JUN										
05...	0.12	0.042	--	--	0.009	0.03	1050	11	<0.01	--
14...	0.89	0.128	--	--	0.005	0.02	3590	72	0.11	--
15...	1.2	0.184	--	--	0.006	0.02	6250	121	0.35	58
16...	0.19	0.048	--	--	0.006	0.02	702	7	0.01	--
24...	--	3.92	2.70	0.881	0.179	0.55	--	3320	18	91
JUL										
02...	0.14	0.046	--	--	0.010	0.03	716	6	<0.01	--
12...	0.52	0.162	--	--	0.018	0.05	4230	74	0.12	--
15...	--	--	--	--	--	--	--	--	--	--
21...	0.08	0.051	--	--	0.016	0.05	202	7	<0.01	--
AUG										
20...	0.10	0.046	--	--	0.017	0.05	631	5	<0.01	--
SEP										
14...	0.05	0.031	--	--	0.011	0.03	450	3	<0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

103367592 EAGLE ROCK CREEK NEAR STATELINE, NV

LOCATION.--Lat 38°57'24", long 119°55'36", in SE 1/4 SE 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 0.7 mi east of Stateline.

DRAINAGE AREA.--0.59 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.64 ft³/s, October 26, gage height 4.76 ft; maximum gage height, 5.17 ft, February 15, backwater from ice; minimum daily, 0.20 ft³/s, October 1-3, May 27 and June 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.37	e.30	.33	.23	.48	.37	.37	.20	.29	.25	.26
2	.20	.37	e.30	.33	.23	.48	.37	.37	.21	.30	.25	.26
3	.20	.39	.30	.30	.23	.48	.37	.37	.21	.29	.26	.26
4	.22	.39	.30	.30	.23	.48	.36	.37	.21	.29	.28	.26
5	.23	.39	.29	.30	.23	.47	.33	.37	.21	.29	.28	.25
6	.23	.38	.28	.30	.23	.45	.33	.37	.22	.29	.28	.25
7	.23	.37	.26	.30	.23	.44	.34	.37	.24	.29	.28	.25
8	.23	.37	.26	e.30	.23	.44	.35	.35	.24	.29	.28	.25
9	.23	.36	.26	.29	.23	.44	.37	.32	.23	.30	.28	.25
10	.23	.33	.27	.29	.23	.44	.37	.32	.23	.32	.28	.25
11	.23	.33	.31	.27	e.23	.42	.37	.31	.23	.34	.28	.25
12	.23	.33	.35	e.27	.23	.40	.40	.31	.23	.35	.29	.25
13	.29	.33	.39	.27	.23	.40	.39	.32	.23	.33	.30	.25
14	.30	.33	.37	.27	.23	.40	.37	.28	.28	.37	.29	.23
15	.30	.33	.37	.26	e.35	.40	.37	.28	.31	.29	.31	.24
16	.30	.33	.37	.26	.48	.40	.34	.28	.30	.31	.32	.24
17	.30	.34	.37	.23	.47	.40	.33	.28	.27	.23	.32	.25
18	.30	.31	.37	.23	.48	.40	.36	.27	.26	.22	.32	.25
19	.30	.31	e.36	.23	.48	.40	.38	.24	.25	.22	.32	.23
20	.30	.33	e.35	.23	.48	.40	.38	.25	.25	.21	.31	.25
21	.31	.33	.33	.23	.50	.40	.37	.25	.25	.23	.29	.24
22	.30	.33	.33	.23	.49	.40	.37	.26	.24	.24	.26	.25
23	.33	.33	.33	.24	.48	.40	.38	.25	.24	.26	.26	.25
24	.33	.28	.33	.23	.48	.40	.39	.25	.30	.26	.25	.25
25	.34	.27	.33	.23	.48	.38	.37	.23	.29	.25	.25	.25
26	.46	.26	.33	.23	.48	.37	.37	.21	.28	.25	.25	.25
27	.30	.28	.33	.23	.48	.37	.37	.20	.28	.25	.25	.23
28	.30	e.28	.33	.23	.48	.37	.37	.21	.29	.25	.26	.23
29	.30	e.29	.33	.23	.48	.37	.37	.22	.29	.25	.26	.23
30	.39	e.30	.33	.23	---	.37	.37	.21	.29	.25	.26	.23
31	.37	---	.33	.23	---	.40	---	.21	---	.25	.26	---
TOTAL	8.78	9.94	10.06	8.10	10.31	12.85	10.98	8.90	7.56	8.56	8.63	7.39
MEAN	.28	.33	.32	.26	.36	.41	.37	.29	.25	.28	.28	.25
MAX	.46	.39	.39	.33	.50	.48	.40	.37	.31	.37	.32	.26
MIN	.20	.26	.26	.23	.23	.37	.33	.20	.20	.21	.25	.23
AC-FT	17	20	20	16	20	25	22	18	15	17	17	15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1991	1991	1990	1990	1990	1990	1991	1990	1990	1990	1990
MEAN	.31	.33	.40	.39	.39	.42	.41	.38	.35	.32	.33
MAX	.33	.33	.51	.50	.44	.47	.51	.43	.41	.42	.43
(WY)	1991	1991	1990	1990	1990	1990	1990	1991	1990	1990	1990
MIN	.28	.33	.32	.26	.36	.39	.37	.29	.25	.26	.28
(WY)	1992	1992	1992	1992	1992	1991	1992	1992	1992	1991	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	123.45	112.06	
ANNUAL MEAN	.34	.31	.33
HIGHEST ANNUAL MEAN			.35
LOWEST ANNUAL MEAN			.31
HIGHEST DAILY MEAN	.82 Mar 2	.50 Feb 21	.82 Mar 2 1991
LOWEST DAILY MEAN	.19 Sep 16	.20 Oct 1	.19 Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	.19 Sep 16	.21 May 26	.19 Sep 16 1991
INSTANTANEOUS PEAK FLOW		.64 Oct 26	.23 Mar 2 1991
INSTANTANEOUS PEAK STAGE		5.17 Feb 15	5.22 Mar 24 1991
ANNUAL RUNOFF (AC-FT)	245	222	236
10 PERCENT EXCEEDS	.42	.40	.49
50 PERCENT EXCEEDS	.35	.29	.37
90 PERCENT EXCEEDS	.23	.23	.24

PYRAMID AND WINNEMUCCA LAKES BASIN

103367592 EAGLE ROCK CREEK NEAR STATELINE, NV--Continued

287

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED WATER (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
04...	1245	0.25	54	--	20.5	9.5	--	--	--
NOV									
07...	1350	0.41	54	--	9.0	5.0	--	--	--
DEC									
10...	1330	0.30	51	8.5	-1.0	1.5	--	--	0.008
13...	1225	0.39	52	--	0.0	2.0	--	--	--
JAN									
23...	1415	0.31	52	8.7	6.0	1.5	10.9	98	0.018
FEB									
21...	1415	0.52	52	--	2.5	3.5	--	--	0.023
MAR									
11...	1120	0.46	53	8.2	8.0	2.0	10.5	96	0.020
24...	1400	0.40	53	8.4	11.0	4.0	--	--	0.019
APR									
02...	1450	0.37	53	8.4	19.0	6.0	--	--	0.032
07...	1615	0.33	53	--	14.0	5.0	--	--	0.039
08...	1404	0.36	56	--	14.0	5.5	--	--	--
13...	1250	0.41	53	--	12.0	6.0	--	--	0.066
22...	1600	0.37	52	8.0	10.5	5.0	--	--	0.003
28...	1550	0.37	53	7.9	18.0	8.5	--	--	0.015
MAY									
06...	1530	0.32	52	7.9	20.5	9.0	--	--	0.013
14...	1350	0.26	51	--	16.0	9.0	--	--	0.013
19...	1445	0.23	51	--	16.0	8.5	--	--	0.002
21...	1355	0.28	52	--	17.5	7.5	--	--	--
28...	1350	0.22	51	--	19.5	9.5	--	--	0.009
JUL									
02...	1205	0.29	52	8.5	16.0	8.0	--	--	0.002
16...	1025	0.31	54	--	20.5	9.5	--	--	--
21...	1140	0.23	51	--	16.0	8.0	--	--	0.006
AUG									
21...	1250	0.31	52	7.9	22.5	10.0	--	--	0.003
SEP									
14...	1435	0.23	51	8.0	20.0	7.5	--	--	0.002

PYRAMID AND WINNEMUCCA LAKES BASIN

103367592 EAGLE ROCK CREEK NEAR STATELINE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT								
04...	--	--	--	--	--	--	--	--
NOV								
07...	--	--	--	--	--	--	--	--
DEC								
10...	<0.004	0.09	0.021	0.008	0.03	146	1	<0.01
13...	--	--	--	--	--	--	--	--
JAN								
23...	0.005	0.09	0.025	0.012	0.04	187	6	<0.01
FEB								
21...	0.019	0.20	0.052	0.015	0.05	592	14	0.02
MAR								
11...	<0.004	0.11	0.029	0.013	0.04	301	5	0.01
24...	<0.004	0.14	0.035	0.012	0.04	339	8	0.01
APR								
02...	0.002	0.31	0.048	0.009	0.03	403	13	0.01
07...	0.007	0.24	0.038	0.014	0.04	315	8	0.01
08...	--	--	--	--	--	--	--	--
13...	0.001	0.18	0.041	0.011	0.03	343	10	0.01
22...	0.004	0.26	0.047	0.006	0.02	434	11	0.01
28...	<0.001	0.22	0.031	0.011	0.03	437	10	0.01
MAY								
06...	0.001	0.17	0.040	0.013	0.04	378	11	0.01
14...	0.002	0.22	0.035	0.009	0.03	331	11	0.01
19...	0.002	0.21	0.035	0.013	0.04	391	12	0.01
21...	--	--	--	--	--	--	--	--
28...	0.004	0.27	0.049	0.010	0.03	647	11	0.01
JUL								
02...	0.002	0.13	0.039	0.006	0.02	241	7	0.01
16...	--	--	--	--	--	--	--	--
21...	0.004	0.13	0.045	0.014	0.04	196	7	<0.01
AUG								
21...	0.003	0.11	0.043	0.013	0.04	198	5	<0.01
SEP								
14...	<0.01	0.05	0.032	0.007	0.02	192	4	<0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

289

10336760 EDGEWOOD CREEK AT STATELINE, NV

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, 10 ft upstream of U.S. Highway 50 culvert, and 0.7 mi above mouth.

DRAINAGE AREA.--5.5 mi².

PERIOD OF RECORD.--August to September 1992.

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
AUG								
11...	1020	1.2	93	--	21.5	11.5	--	--
20...	1405	1.2	89	8.3	20.0	11.5	0.010	0.002
SEP								
15...	1130	1.5	92	8.0	19.5	9.0	0.003	<0.001

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
AUG							
11...	--	--	--	--	--	--	--
20...	0.13	0.046	0.020	0.06	714	3	0.01
SEP							
15...	0.12	0.038	0.010	0.03	767	2	0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

10336761 EDGEWOOD CREEK BELOW HIGHWAY 50 NEAR STATELINE, NV

LOCATION.--Lat 38°57'59", long 119°56'12", in NE 1/4 NE 1/4 sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 20 ft downstream of U.S. Highway 50 culvert, and 0.6 mi above mouth.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1984-85, 1992.

REMARKS.--In February 1992 station was incorporated, as a miscellaneous site, into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
FEB 19...	1350	1.8	138	6.5	3.5	11.0	105	0.016
MAY 06...	1920	0.40	109	15.0	16.0	--	--	0.004
JUN 14...	1245	0.40	109	10.5	11.0	--	--	0.015
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)
FEB 19...	0.007	0.11	0.032	0.010	0.03	420	3	0.01
MAY 06...	0.001	0.27	0.030	0.007	0.02	290	2	<0.01
JUN 14...	0.012	0.61	0.063	0.019	0.06	621	2	<0.01

PYRAMID AND WINNEMUCCA LAKES BASIN

291

385758119564401 EDGEWOOD CREEK TRIBUTARY ABOVE EDGEWOOD CLUBHOUSE NEAR STATELINE, NV

LOCATION.--Lat 38°57'58", long 119°56'44", in NE 1/4 NW 1/4 sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 10 ft upstream of mouth, 600 ft above Edgewood Golf Course clubhouse, and about 0.5 mi north of Stateline.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--February to June 1992.

REMARKS.--In February 1992, station was incorporated, as a miscellaneous site, into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
FEB 19...	1320	1.0	230	--	6.5	6.5	8.1	83	0.101
MAY 06...	1900	0.20	288	--	15.0	16.0	--	--	0.491
JUN 14...	1210	0.20	116	--	10.5	11.0	--	--	0.089
15...	1540	0.50	94	8.2	11.5	9.5	--	--	0.075
17...	1745	0.10	118	--	15.0	14.5	--	--	0.101
24...	1725	--	--	--	--	--	--	--	--
DATE		NITRO- GEN, AM- MONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS ORTHOPHOS- PHATE, ORTHOPHOS- PHATE, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHOPHOS- PHATE, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- SOLVED (MG/L)	SEDI- MENT, DIS- SOLVED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB 19...		0.054	1.3	0.778	0.111	0.34	5910	180	0.51
MAY 06...		0.011	5.5	0.754	0.082	0.25	6300	272	0.15
JUN 14...		0.500	2.0	0.276	0.046	0.14	1860	51	0.03
15...		0.234	1.2	0.218	0.112	0.34	1250	24	0.03
17...		0.315	2.3	0.247	0.086	0.26	2070	67	0.02
24...		--	--	--	--	--	--	67	--

PYRAMID AND WINNEMUCCA LAKES BASIN

10336765 EDGEWOOD CREEK AT LAKE TAHOE NEAR STATELINE, NV

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.--5.50 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1989 to September 1992 (discontinued). Discharge measurements only 1984-1985.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow is periodically regulated for commercial use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27 ft³/s, October 26, gage height 6.04 ft; minimum daily, 0.15 ft³/s, July 28 and August 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.47	.55	1.5	2.0	2.2	2.2	1.6	.29	.54	.21	.19
2	.22	.84	.58	1.5	2.0	2.3	1.8	.83	.30	.44	.18	.19
3	.20	1.3	.57	1.5	2.0	2.2	1.7	.80	.27	.45	.16	.20
4	.21	1.6	.70	1.5	1.9	2.2	1.5	.83	.27	.41	.18	.23
5	.30	.97	1.5	1.6	1.8	2.3	2.1	.97	.26	.33	.21	.23
6	.38	1.7	1.4	1.5	1.8	2.8	2.2	.70	.24	.27	.22	.22
7	.37	.61	1.9	1.6	1.6	2.4	2.0	.46	.22	.27	.26	.22
8	.35	1.5	1.8	1.5	1.6	2.4	1.6	.71	.23	.29	.27	.22
9	.34	1.7	1.9	1.5	1.7	2.4	2.0	.77	.21	.32	.26	.22
10	.33	1.6	1.5	1.5	1.7	2.3	1.3	.66	.21	.33	.24	.22
11	.32	1.6	1.4	1.5	2.1	2.3	1.5	.52	.22	.31	.25	.22
12	.31	1.6	1.4	1.5	2.2	2.1	2.4	.50	.24	.35	.28	.22
13	.28	1.6	1.4	1.5	2.1	2.1	2.7	.77	.21	.31	.30	.22
14	.29	1.7	1.5	1.6	2.2	2.2	2.5	.64	.60	.34	.33	.22
15	.26	1.5	1.5	1.5	2.6	2.2	2.2	.52	1.9	.31	.36	.22
16	.26	1.4	1.5	1.4	2.3	2.1	2.1	.45	1.3	.36	.35	.22
17	.26	2.5	1.5	1.4	2.2	2.0	1.5	.67	1.8	.33	.32	.22
18	.26	4.5	1.8	1.4	2.1	1.9	2.2	.61	1.4	.31	.27	.24
19	.25	1.4	1.7	1.4	2.6	2.0	2.2	.55	1.6	.27	.20	.26
20	.26	1.4	1.6	1.4	3.6	1.9	1.3	.48	.81	.27	.21	.27
21	.27	1.3	1.5	1.4	3.5	2.0	1.2	.47	.61	.26	.21	.26
22	.25	1.0	1.5	1.7	2.9	2.1	1.2	.45	.43	.23	.18	e.26
23	.23	.92	1.4	1.5	2.2	1.8	1.2	.41	.38	.22	.16	e.26
24	.22	.80	1.4	1.5	2.0	1.6	1.2	.33	.78	.21	.15	e.28
25	.32	.60	1.3	1.5	2.1	1.0	1.8	.34	1.6	.19	.17	e.30
26	12	.58	1.3	1.5	2.1	.36	1.2	.27	.98	.17	.20	e.30
27	2.8	.76	1.4	1.6	2.1	.59	1.1	.28	.55	.17	.24	e.29
28	.59	.61	1.5	1.7	2.1	.41	1.6	.34	.55	.15	.24	e.28
29	.24	.57	1.4	1.7	2.2	1.3	1.0	.44	1.2	.16	.24	e.27
30	.22	.54	1.4	1.7	---	2.6	1.1	.69	.98	.18	.22	e.25
31	.26	---	1.5	1.9	---	2.6	---	.34	---	.21	.21	---
TOTAL	23.11	39.17	43.30	47.5	63.3	60.66	51.6	18.40	20.64	8.96	7.28	7.20
MEAN	.75	1.31	1.40	1.53	2.18	1.96	1.72	.59	.69	.29	.23	.24
MAX	12	4.5	1.9	1.9	3.6	2.8	2.7	1.6	1.9	.54	.36	.30
MIN	.20	.47	.55	1.4	1.6	.36	1.0	.27	.21	.15	.15	.19
AC-FT	46	78	86	94	126	120	102	36	41	18	14	14

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	1989	1990	1991	1992
MEAN	1.39	1.50	1.75	1.82
MAX	2.12	2.20	2.19	2.34
(WY)	1990	1990	1990	1990
MIN	.75	.98	1.40	1.53
(WY)	1992	1991	1992	1991

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	469.92	391.12	
ANNUAL MEAN	1.29	1.07	1.43
HIGHEST ANNUAL MEAN			1.89
LOWEST ANNUAL MEAN			1.07
HIGHEST DAILY MEAN	12 Oct 26	12 Oct 26	16 Aug 27 1990
LOWEST DAILY MEAN	.03 Jul 7	.15 Jul 28	.00 Jun 22 1990
ANNUAL SEVEN-DAY MINIMUM	.12 Jul 4	.18 Jul 24	.06 May 11 1990
INSTANTANEOUS PEAK FLOW		27 Oct 26	27 Mar 4 1991
INSTANTANEOUS PEAK STAGE		6.04 Oct 26	6.04 Oct 26 1991
ANNUAL RUNOFF (AC-FT)	932	776	1030
10 PERCENT EXCEEDS	2.6	2.2	2.6
50 PERCENT EXCEEDS	1.3	.80	1.4
90 PERCENT EXCEEDS	.22	.22	.24

PYRAMID AND WINNEMUCCA LAKES BASIN

10336765 EDGEWOOD CREEK AT LAKE TAHOE NEAR STATELINE, NV--Continued

293

WATER-QUALITY RECORDS

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT												
07...	1218	0.41	--	--	23.5	15.0	--	--	--	--	--	--
15...	1330	0.24	94	8.8	25.0	16.0	--	--	0.005	--	0.005	0.37
NOV												
07...	0931	0.35	119	--	9.0	7.0	--	--	--	--	--	--
08...	1210	1.5	112	8.4	14.0	9.0	10.0	109	0.013	0.051	0.008	--
DEC												
09...	1015	2.1	109	8.1	-0.5	3.0	10.6	99	0.010	--	0.004	0.13
10...	0906	1.5	111	--	-3.0	3.5	--	--	--	--	--	--
JAN												
27...	1010	1.6	109	8.5	5.0	3.5	11.5	109	0.014	--	0.005	0.12
FEB												
19...	1220	2.8	188	--	6.5	4.5	10.2	100	0.035	0.027	0.015	0.43
20...	1410	4.1	144	8.0	6.5	4.5	10.4	102	0.025	--	0.041	0.59
21...	1820	4.3	160	--	3.5	4.0	--	--	0.023	--	0.016	0.54
27...	1400	2.0	133	8.8	8.0	6.5	11.2	114	0.008	0.020	0.006	0.09
MAR												
11...	1000	2.4	125	8.7	8.0	6.5	11.5	118	0.006	--	<0.004	0.21
24...	1200	1.6	110	9.4	10.5	8.5	10.7	116	0.007	0.013	<0.004	0.20
25...	1725	0.93	242	8.0	5.0	9.0	--	--	0.065	--	<0.004	2.0
30...	1530	3.3	90	9.0	3.0	6.5	--	--	0.071	--	0.009	1.1
APR												
02...	1250	1.6	115	9.1	17.0	12.0	--	--	0.005	--	0.002	0.28
07...	1430	2.0	121	--	13.5	12.0	--	--	0.007	0.011	0.002	0.26
10...	0920	0.93	102	--	10.5	10.0	--	--	--	--	--	--
10...	1400	1.6	133	--	21.0	11.0	--	--	0.006	--	0.001	0.33
12...	2050	3.0	115	--	5.0	10.0	--	--	0.023	--	0.019	0.38
21...	1400	1.5	111	--	12.5	13.5	--	--	0.005	0.007	0.005	0.22
28...	1400	1.8	109	9.5	20.0	17.0	--	--	0.007	--	0.002	0.24
MAY												
06...	0800	0.62	107	9.5	9.0	14.0	--	--	0.002	--	0.002	0.21
06...	1950	1.0	114	--	15.0	16.0	--	--	0.005	0.016	0.002	0.30
13...	1800	0.75	127	--	17.0	19.5	--	--	0.006	--	0.003	0.34
20...	0950	0.48	118	--	14.0	15.5	--	--	0.006	--	0.007	0.32
JUN												
01...	1040	0.29	129	10.5	19.0	23.0	--	--	0.011	0.061	0.022	0.41
05...	1730	0.24	141	--	19.0	22.0	--	--	0.016	--	0.016	0.53
14...	1325	0.70	117	--	10.5	11.0	--	--	0.056	0.071	0.142	0.89
15...	1215	1.6	110	--	4.5	7.5	--	--	0.067	--	0.169	0.87
15...	1500	5.7	80	8.4	11.0	9.5	--	--	0.071	--	0.057	1.1
16...	1115	1.4	111	9.6	15.0	14.5	--	--	0.030	0.009	0.010	0.47
17...	1815	2.0	108	--	13.5	16.0	--	--	0.015	--	0.007	0.38
24...	1730	1.5	112	--	--	--	--	--	0.007	--	0.056	0.47
JUL												
02...	0940	0.36	111	10.3	14.0	18.0	--	--	0.008	0.049	0.002	0.31
16...	2055	.70	112	--	15.0	18.5	--	--	0.024	--	0.008	0.43
23...	1140	0.19	122	--	17.0	21.0	--	--	0.008	--	0.010	0.46
AUG												
11...	0912	0.28	103	--	22.0	19.0	--	--	--	--	--	--
20...	1155	0.23	109	10.0	23.5	23.0	--	--	0.012	0.048	0.006	0.39
SEP												
15...	0940	0.24	104	10.2	16.0	14.0	8.5	--	0.005	--	<0.001	0.32

PYRAMID AND WINNEMUCCA LAKES BASIN

10336765 EDGEWOOD CREEK AT LAKE TAHOE NEAR STATELINE, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	PHOS- PHORUS HYDRO- + ORTHO DIS. (MG/L AS P)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	0.043	--	--	0.009	0.03	--	303	--	2	<0.01	--
NOV												
07...	--	--	--	--	--	--	--	--	--	--	--	--
08...	0.36	0.049	0.023	0.018	0.013	0.04	0.01	775	460	7	0.03	--
DEC												
09...	--	0.026	--	--	0.010	0.03	--	451	--	2	0.01	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
27...	--	0.030	--	--	0.014	0.04	--	395	--	2	0.01	--
FEB												
19...	0.28	0.113	0.021	0.048	0.016	0.05	0.01	982	24	25	0.19	--
20...	--	0.107	--	--	0.048	0.15	--	590	--	12	0.13	--
21...	--	0.151	--	--	0.028	0.09	--	1230	--	27	0.31	--
27...	0.16	0.036	0.018	0.020	0.010	0.03	0.01	470	200	3	0.02	--
MAR												
11...	--	0.031	--	--	0.010	0.03	--	385	--	5	0.03	--
24...	0.17	0.034	0.019	0.010	0.008	0.02	0.01	400	120	2	0.01	--
25...	--	0.811	--	--	0.061	0.19	--	6280	--	232	0.58	85
30...	--	0.564	--	--	0.023	0.07	--	3970	--	162	1.4	--
APR												
02...	--	0.044	--	--	0.005	0.02	--	448	--	5	0.02	--
07...	0.18	0.047	0.028	0.010	0.009	0.03	0.01	485	170	4	0.02	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	0.058	--	--	0.019	0.06	--	440	--	3	0.01	--
12...	--	0.073	--	--	0.019	0.06	--	363	--	11	0.09	--
21...	0.17	0.035	0.025	0.013	0.012	0.04	0.01	439	190	2	0.01	--
28...	--	0.031	--	--	0.011	0.03	--	362	--	3	0.01	--
MAY												
06...	--	0.034	--	--	0.003	0.01	--	304	--	2	<0.01	--
06...	0.19	0.040	0.023	0.012	0.012	0.04	0.01	320	120	3	0.01	--
13...	--	0.045	--	--	0.015	0.05	--	319	--	8	0.02	--
20...	--	0.052	--	--	0.019	0.06	--	332	--	3	<0.01	--
JUN												
01...	0.34	0.060	0.043	0.029	0.027	0.08	0.03	317	150	7	0.01	--
05...	--	0.064	--	--	0.025	0.08	--	462	--	2	<0.01	--
14...	0.87	0.159	0.111	0.072	0.062	0.19	0.07	807	44	9	0.02	--
15...	--	0.168	--	--	0.061	0.19	--	728	--	12	0.05	--
15...	--	0.178	--	--	0.079	0.24	--	826	--	16	0.25	--
16...	0.43	0.068	0.049	0.034	0.022	0.07	0.03	498	230	3	0.01	--
17...	--	0.042	--	--	0.008	0.02	--	415	--	3	0.02	--
24...	--	0.070	--	0.033	0.026	0.08	--	570	--	6	0.02	--
JUL												
02...	0.26	0.037	0.027	0.016	0.013	0.04	0.02	391	230	4	<0.01	--
16...	--	0.072	--	--	0.024	0.07	--	474	--	10	0.02	--
23...	--	0.050	--	--	0.016	0.05	--	426	--	6	<0.01	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
20...	0.29	0.044	0.030	0.014	0.014	0.04	0.02	369	170	4	<0.01	--
SEP												
15...	--	0.037	--	--	0.008	0.03	--	167	--	3	<0.01	--

PYRAMID AND WINNEMUCCA LAKES BASIN

295

10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA

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.--7.40 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,850 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70 ft³/s, August 13, gage height 5.38 ft, from rating curve extended above 40 ft³/s on the basis of slope-area measurement of peak flow; minimum daily, 2.6 ft³/s, September 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	4.3	e3.2	3.2	3.2	3.9	4.5	12	4.5	3.8	2.9	3.8
2	3.3	4.3	e3.3	3.2	3.2	3.9	5.3	11	4.0	3.7	2.9	3.7
3	3.3	4.3	e3.5	3.3	e3.2	3.9	6.3	11	3.7	3.5	3.0	3.7
4	3.3	4.3	e3.5	3.3	3.2	3.7	6.0	11	3.5	3.4	2.9	3.7
5	3.3	4.5	e3.5	3.4	3.1	3.5	5.4	11	3.6	3.3	3.0	3.7
6	3.3	4.4	e3.5	3.5	3.0	3.5	5.3	11	3.6	3.2	3.0	3.5
7	3.3	4.1	3.5	3.4	3.0	3.4	6.0	12	3.7	3.1	3.1	3.5
8	3.3	4.3	3.5	e3.4	3.0	3.3	6.2	13	4.3	3.2	3.0	3.4
9	3.2	5.5	3.5	e3.3	3.0	3.1	6.4	12	3.9	3.1	2.8	3.3
10	3.2	5.1	3.5	3.3	3.0	3.3	6.9	10	3.8	3.4	2.8	3.5
11	3.2	4.6	e3.4	3.3	3.1	3.2	7.4	10	3.7	4.7	2.9	3.9
12	3.2	4.4	e3.2	e3.3	3.2	3.2	7.8	9.7	3.5	5.5	3.2	3.5
13	3.3	4.3	3.1	e3.2	3.2	3.2	9.1	9.3	3.6	4.4	8.5	3.6
14	3.3	4.0	3.2	3.2	3.3	3.4	8.2	9.2	4.2	4.4	5.7	3.5
15	3.3	3.9	3.2	3.2	e3.3	3.3	7.3	8.9	4.7	4.2	4.6	3.3
16	3.3	e3.8	3.3	3.2	e3.2	3.3	6.7	9.4	6.0	4.6	4.1	3.1
17	3.3	e3.8	3.4	3.2	3.1	3.3	12	9.8	5.5	4.4	3.9	3.2
18	3.3	e4.2	3.4	3.2	3.0	3.6	11	8.7	4.9	3.9	3.9	3.6
19	3.3	e4.5	e3.0	3.2	3.1	3.2	9.2	8.4	4.5	3.7	3.7	3.3
20	3.3	4.7	e2.7	e3.3	3.5	3.2	9.3	7.4	4.2	3.6	3.5	3.1
21	3.2	5.0	e2.9	3.5	3.9	3.0	9.8	7.0	4.1	3.6	3.5	3.1
22	3.2	4.9	3.0	e3.4	5.3	3.0	9.6	6.9	3.9	3.3	3.5	3.1
23	3.2	4.4	3.0	e3.4	4.2	3.0	9.9	6.5	3.9	3.0	3.5	3.1
24	3.2	4.3	3.0	3.4	3.8	3.0	10	6.5	4.0	3.2	3.5	3.2
25	3.5	4.3	3.2	3.4	3.7	3.0	11	6.6	4.2	3.2	3.5	3.2
26	11	4.5	3.2	3.5	3.8	3.0	12	6.5	3.9	3.1	3.5	3.3
27	5.1	4.5	3.2	3.4	4.1	3.4	12	6.4	3.7	3.1	3.4	3.1
28	5.4	e4.4	3.2	3.3	4.1	3.6	13	6.0	3.9	3.1	3.3	2.8
29	4.3	e3.9	3.2	e3.2	4.0	3.7	15	5.6	3.8	2.9	3.8	2.7
30	4.5	e3.3	3.2	3.2	---	3.8	14	5.3	4.2	2.9	4.1	2.6
31	4.5	---	e3.2	3.2	---	3.7	---	5.1	---	3.0	3.9	---
TOTAL	116.8	130.8	100.7	102.5	99.8	104.6	262.6	273.2	123.0	111.5	112.9	100.1
MEAN	3.77	4.36	3.25	3.31	3.44	3.37	8.75	8.81	4.10	3.60	3.64	3.34
MAX	11	5.5	3.5	3.5	5.3	3.9	15	13	6.0	5.5	8.5	3.9
MIN	3.2	3.3	2.7	3.2	3.0	3.0	4.5	5.1	3.5	2.9	2.8	2.6
AC-FT	232	259	200	203	198	207	521	542	244	221	224	199

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	3.48	3.99	2.98	2.95	3.05	3.31	6.96	10.2	9.49	4.65	3.68	3.36
MAX	3.77	4.36	3.25	3.31	3.44	3.37	8.75	11.7	16.8	5.52	3.76	3.42
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991
MIN	3.19	3.63	2.70	2.59	2.65	3.25	5.18	8.81	4.10	3.60	3.64	3.32
(WY)	1991	1991	1991	1991	1991	1991	1991	1992	1992	1992	1990	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	2014.1			1638.5								
ANNUAL MEAN	5.52			4.48						4.92		
HIGHEST ANNUAL MEAN										5.36		1991
LOWEST ANNUAL MEAN										4.48		1992
HIGHEST DAILY MEAN	24	Jun 3		15	Apr 29					24	Jun 3	1991
LOWEST DAILY MEAN	2.3	Jan 1		2.6	Sep 30					1.9	Dec 21	1990
ANNUAL SEVEN-DAY MINIMUM	2.5	Jan 1		2.9	Jul 29					2.4	Dec 17	1990
INSTANTANEOUS PEAK FLOW				70	Aug 13					70	Aug 13	1992
INSTANTANEOUS PEAK STAGE				5.38	Aug 13					5.38	Aug 13	1992
ANNUAL RUNOFF (AC-FT)	3990			3250						3560		
10 PERCENT EXCEEDS	12			8.3						9.5		
50 PERCENT EXCEEDS	3.8			3.5						3.6		
90 PERCENT EXCEEDS	2.6			3.1						2.8		

PYRAMID AND WINNEMUCCA LAKES BASIN

10336770 TROUT CREEK AT U. S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA--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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
13...	1308	3.2	--	--	16.5	8.0	--	--	--
16...	1230	3.3	56	8.4	20.0	6.5	--	--	0.004
NOV									
06...	1030	3.8	55	--	5.5	2.5	--	--	--
07...	1400	4.1	53	8.5	13.0	4.0	--	--	0.004
DEC									
06...	1400	E3.5	55	8.5	6.5	1.5	10.7	99	0.008
12...	1237	3.5	56	--	0.0	2.0	--	--	--
JAN									
24...	1030	3.5	59	8.6	1.5	1.0	--	--	0.017
MAR									
05...	1030	3.5	52	8.7	3.5	2.5	--	--	0.005
APR									
09...	1020	5.9	44	--	10.5	2.5	--	--	0.023
14...	1615	8.0	41	--	13.0	5.0	--	--	0.017
21...	1700	9.8	35	8.0	9.5	6.5	--	--	0.014
27...	1745	13	32	7.9	15.0	8.0	--	--	0.012
MAY									
05...	1120	10	29	7.9	17.5	8.0	--	--	0.003
13...	1720	9.6	30	--	15.0	10.0	--	--	0.005
19...	1155	8.6	33	--	13.5	7.5	--	--	0.002
27...	1215	6.1	37	--	19.0	10.0	--	--	0.005
JUN									
03...	1515	3.9	39	8.3	23.5	12.5	--	--	0.006
16...	1200	5.0	42	--	8.5	4.0	--	--	0.005
JUL									
07...	1000	3.7	49	--	13.0	7.5	--	--	0.007
14...	1310	4.6	49	--	21.5	10.5	--	--	--
22...	1030	3.4	51	--	14.0	8.0	--	--	0.007
AUG									
13...	1445	70	--	--	--	--	--	--	--
13...	1700	16	37	--	17.5	8.0	--	--	0.025
19...	1405	3.4	52	8.0	20.0	11.0	--	--	0.007
SEP									
10...	1235	3.7	54	8.0	19.0	9.0	--	--	0.005

PYRAMID AND WINNEMUCCA LAKES BASIN

297

10336770 TROUT CREEK AT U. S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
13...	--	--	--	--	--	--	--	--	--
16...	<0.004	0.07	0.020	0.010	0.03	78	2	0.02	--
NOV									
06...	--	--	--	--	--	--	--	--	--
07...	<0.004	0.09	0.019	0.007	0.02	75	1	0.01	--
DEC									
06...	<0.004	0.12	0.016	0.007	0.02	58	1	EO.01	--
12...	--	--	--	--	--	--	--	--	--
JAN									
24...	<0.004	0.09	0.019	0.012	0.04	77	3	0.03	--
MAR									
05...	<0.004	0.11	0.021	0.004	0.01	101	1	0.01	--
APR									
09...	0.001	0.26	0.027	0.009	0.03	294	5	0.08	--
14...	0.003	0.31	0.030	0.008	0.02	1540	6	0.13	--
21...	0.007	0.24	0.031	0.014	0.04	286	10	0.27	--
27...	0.003	0.28	0.029	0.013	0.04	507	14	0.48	--
MAY									
05...	0.001	0.17	0.025	0.007	0.02	232	6	0.17	--
13...	0.001	0.20	0.024	0.008	0.02	176	5	0.13	--
19...	0.002	0.16	0.022	0.006	0.02	148	4	0.09	--
27...	0.004	0.13	0.022	0.006	0.02	151	4	0.07	--
JUN									
03...	0.001	0.15	0.030	0.012	0.04	142	7	0.07	--
16...	0.003	0.12	0.030	0.009	0.03	114	2	0.03	--
JUL									
07...	0.003	0.10	0.024	0.009	0.03	84	2	0.02	--
14...	--	--	--	--	--	--	--	--	--
22...	0.004	0.07	0.033	0.012	0.04	416	2	0.02	--
AUG									
13...	--	--	--	--	--	--	--	--	--
13...	0.026	6.6	1.75	0.033	0.10	17900	642	28	80
19...	0.006	0.10	0.030	0.012	0.04	84	2	0.02	--
SEP									
10...	0.001	0.04	0.021	0.012	0.04	51	2	0.02	--

E: ESTIMATED

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA

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.--23.7 mi².

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 poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45 ft³/s, October 26, gage height, 2.18 ft; maximum gage height, 2.45 ft, December 16, backwater from ice; minimum daily discharge, 3.8 ft³/s, September 12, 16, 23, 29-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	6.5	e6.0	e7.2	e7.0	7.7	12	19	8.6	6.8	4.5	4.7
2	4.1	6.4	7.6	e7.8	e7.0	7.4	13	17	8.2	6.6	4.5	4.4
3	4.1	6.5	10	6.9	e6.8	7.3	13	16	7.7	6.2	4.3	4.5
4	4.2	6.6	e8.6	6.9	e6.7	7.2	14	16	7.5	6.1	4.3	4.5
5	4.1	6.6	e8.0	e7.0	e6.4	7.2	12	16	7.2	5.8	4.4	4.4
6	4.1	6.8	6.4	e6.8	6.3	7.2	12	17	7.1	5.6	4.3	4.2
7	4.1	6.7	6.7	e6.4	6.3	8.3	12	19	7.6	5.6	4.1	4.1
8	4.2	6.8	9.1	e6.3	6.1	6.7	12	20	7.4	5.5	4.1	3.9
9	4.2	8.0	e7.0	e6.2	e6.0	6.7	12	19	7.5	5.4	4.3	4.0
10	4.2	7.4	e6.2	e6.0	5.7	7.9	12	16	6.8	5.3	4.3	4.0
11	4.2	6.7	e6.0	e6.0	5.9	8.4	13	15	6.7	6.2	4.1	3.9
12	4.3	6.4	e5.5	e6.0	5.6	7.8	12	15	6.5	9.5	4.4	3.8
13	4.3	6.1	e5.5	e6.5	5.6	7.4	16	14	6.8	7.4	10	3.9
14	4.3	6.0	e5.6	e7.0	e5.6	7.6	13	14	7.6	6.9	9.3	4.0
15	4.3	5.9	e6.0	e7.7	e5.8	7.5	13	14	9.5	6.9	6.1	3.9
16	4.3	6.7	e6.0	e7.6	e5.8	7.4	12	15	9.8	6.8	5.2	3.8
17	4.4	7.9	e6.4	e7.2	e6.0	7.1	18	18	11	7.6	4.9	4.0
18	4.3	9.3	6.5	e7.0	e6.2	7.3	18	15	11	5.9	4.7	4.8
19	4.4	e9.0	e6.6	e6.2	6.3	7.2	15	14	9.0	5.5	4.3	4.3
20	4.6	8.2	e7.0	e5.8	8.3	7.1	16	13	7.5	5.4	4.4	4.2
21	4.6	9.0	e8.0	e5.4	8.0	7.1	17	13	7.0	5.1	4.1	4.1
22	4.4	8.6	8.4	e5.2	e8.4	7.5	15	12	6.6	5.1	4.0	4.0
23	4.9	7.9	8.0	e5.0	e9.0	7.6	14	12	6.4	5.0	4.1	3.8
24	4.6	9.9	8.0	e5.0	e9.0	7.5	14	11	7.0	5.2	4.2	3.9
25	5.5	6.9	8.1	e5.2	9.0	7.8	16	11	7.8	5.2	4.3	3.9
26	27	6.7	7.9	e5.4	8.0	8.2	18	11	7.0	5.1	4.1	3.9
27	10	6.9	7.7	e5.6	8.7	8.6	18	10	6.5	4.9	4.3	3.9
28	7.1	7.8	8.0	e5.8	7.7	9.9	19	9.9	6.3	4.7	4.3	3.9
29	6.8	e7.0	7.5	e6.2	7.9	9.6	23	9.4	6.6	4.7	4.6	3.8
30	6.5	e5.6	e7.4	e6.5	---	10	23	9.0	7.5	4.6	5.3	3.8
31	6.7	---	e7.0	e7.0	---	11	---	8.9	---	4.5	5.3	---
TOTAL	172.9	216.8	222.7	196.8	201.1	243.2	447	439.2	229.7	181.1	149.1	122.3
MEAN	5.58	7.23	7.18	6.35	6.93	7.85	14.9	14.2	7.66	5.84	4.81	4.08
MAX	27	9.9	10	7.8	9.0	11	23	20	11	9.5	10	4.8
MIN	4.1	5.6	5.5	5.0	5.6	6.7	12	8.9	6.3	4.5	4.0	3.8
AC-FT	343	430	442	390	399	482	887	871	456	359	296	243

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1992, BY WATER YEAR (WY)

	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
MEAN	5.03	6.13	5.62	5.53	6.42	8.04	13.6	18.2	16.4	7.87	5.18	4.37
MAX	5.58	7.23	7.18	6.35	6.93	8.24	14.9	22.2	28.0	9.76	5.44	4.54
(WY)	1992	1992	1992	1992	1992	1991	1992	1991	1991	1991	1991	1991
MIN	4.49	5.03	4.05	4.70	5.89	7.85	12.2	14.2	7.66	5.84	4.81	4.08
(WY)	1991	1991	1991	1991	1991	1992	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1990 - 1992

ANNUAL TOTAL	3682.3	2821.9	8.63
ANNUAL MEAN	10.1	7.71	9.55
HIGHEST ANNUAL MEAN			7.71
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	42	27	42
LOWEST DAILY MEAN	3.4	3.8	2.0
ANNUAL SEVEN-DAY MINIMUM	4.0	3.9	2.8
INSTANTANEOUS PEAK FLOW		45	60
INSTANTANEOUS PEAK STAGE		2.45	3.93
ANNUAL RUNOFF (AC-FT)	7300	5600	6250
10 PERCENT EXCEEDS	21	13	16
50 PERCENT EXCEEDS	6.7	6.8	6.4
90 PERCENT EXCEEDS	4.3	4.2	4.2

PYRAMID AND WINNEMUCCA LAKES BASIN

299

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
04...	1200	4.2	60	--	12.0	10.0	--	--	--
16...	1345	4.5	59	8.4	20.5	9.5	--	--	<0.004
NOV									
06...	1315	6.6	57	--	--	5.0	--	--	--
07...	1510	6.7	55	8.4	15.0	6.0	--	--	0.005
DEC									
10...	1040	6.2	61	8.4	-1.0	1.0	--	--	0.005
12...	1520	5.5	59	--	3.0	0.5	--	--	--
JAN									
23...	1010	5.0	61	8.4	2.5	0.5	10.7	93	0.013
FEB									
19...	0915	6.1	57	--	4.0	1.0	--	--	0.014
MAR									
06...	1505	7.6	--	--	0.5	2.5	--	--	--
12...	1515	7.1	59	8.2	15.0	4.0	10.6	102	0.006
25...	1345	8.0	61	8.3	8.0	4.5	--	--	0.008
APR									
01...	1500	11	55	8.3	14.5	8.5	--	--	0.012
07...	1050	12	50	--	14.0	4.0	--	--	0.022
09...	1300	12	54	--	15.0	5.5	--	--	--
13...	1450	14	46	--	10.5	8.5	--	--	0.019
17...	1230	20	46	--	12.0	8.0	--	--	0.008
21...	1830	16	41	7.8	9.5	10.0	--	--	0.018
27...	1045	16	37	7.8	13.0	6.5	--	--	0.010
29...	0750	23	39	7.7	6.0	6.0	--	--	0.011
MAY									
05...	0810	18	34	7.9	12.0	7.0	--	--	0.003
14...	1125	16	33	--	16.5	11.0	--	--	0.005
19...	1045	15	36	--	12.0	7.5	--	--	0.003
27...	0955	10	40	--	16.0	11.0	--	--	0.005
JUN									
05...	1150	7.6	45	8.1	21.0	15.0	--	--	0.005
16...	0950	9.2	43	--	9.0	5.0	--	--	0.007
17...	1710	12	41	--	14.0	10.0	--	--	0.029
JUL									
06...	1500	5.7	51	--	19.0	14.5	--	--	0.004
12...	1345	9.5	50	--	16.0	14.5	--	--	0.006
15...	0950	6.6	54	--	18.5	13.0	--	--	--
16...	1950	7.5	50	--	13.0	14.0	--	--	0.009
23...	1020	5.1	55	--	14.0	11.0	--	--	0.003
AUG									
13...	1810	8.2	58	--	20.5	15.5	--	--	0.007
13...	1840	33	55	--	20.5	15.0	--	--	0.009
13...	1915	35	49	--	18.0	15.0	--	--	0.019
14...	1820	7.5	50	--	16.0	15.5	--	--	0.014
19...	1005	4.5	56	8.0	27.0	14.5	7.5	92	0.010
SEP									
10...	1050	4.0	58	7.8	20.0	12.5	--	--	0.005

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
04...	--	--	--	--	--	--	--	--	--
16...	<0.004	0.10	0.023	0.010	0.03	203	0	0.0	--
NOV									
06...	--	--	--	--	--	--	--	--	--
07...	<0.004	0.11	0.019	0.009	0.03	185	0	0.0	--
DEC									
10...	<0.004	0.07	0.017	0.006	0.02	207	3	0.05	--
12...	--	--	--	--	--	--	--	--	--
JAN									
23...	<0.004	0.10	0.017	0.008	0.02	190	3	0.04	--
FEB									
19...	<0.004	0.07	0.018	0.009	0.03	205	2	0.03	--
MAR									
06...	--	--	--	--	--	--	--	--	--
12...	<0.004	0.13	0.021	0.009	0.03	278	1	0.02	--
25...	<0.004	0.12	0.019	0.005	0.02	310	4	0.09	--
APR									
01...	0.001	0.18	0.017	0.007	0.02	369	3	0.09	--
07...	0.002	0.18	0.023	0.007	0.02	322	4	0.13	--
09...	--	--	--	--	--	--	--	--	--
13...	0.001	0.28	0.027	0.005	0.02	315	5	0.19	--
17...	0.003	0.30	0.038	0.005	0.02	631	17	0.94	--
21...	0.007	0.20	0.032	0.010	0.03	399	5	0.21	--
27...	0.001	0.26	0.018	0.004	0.01	387	7	0.30	--
29...	0.002	0.28	0.031	0.006	0.02	563	12	0.75	--
MAY									
05...	0.001	0.12	0.027	0.006	0.02	144	7	0.34	--
14...	0.001	0.23	0.032	0.007	0.02	516	14	0.61	--
19...	0.002	0.16	0.024	0.008	0.02	303	6	0.24	--
27...	0.006	0.16	0.031	0.007	0.02	427	6	0.17	--
JUN									
05...	0.004	0.14	0.031	0.008	0.02	366	4	0.08	--
16...	0.003	0.16	0.032	0.008	0.02	287	3	0.08	--
17...	0.002	0.25	0.079	0.010	0.03	884	28	0.91	--
JUL									
06...	0.001	0.11	0.027	0.009	0.03	296	4	0.06	--
12...	0.001	0.18	0.038	0.011	0.03	455	5	0.13	--
15...	--	--	--	--	--	--	--	--	--
16...	0.014	0.27	0.162	0.009	0.03	873	50	1.0	--
23...	0.006	0.13	0.038	0.012	0.04	318	3	0.04	--
AUG									
13...	0.004	2.4	0.271	0.011	0.03	5830	144	3.2	--
13...	0.016	2.8	0.398	0.014	0.04	12100	499	44	55
13...	0.021	1.4	0.280	0.015	0.05	6740	272	26	53
14...	0.008	0.61	0.147	0.015	0.05	1420	34	0.69	--
19...	0.002	0.13	0.036	0.016	0.05	390	1	0.01	--
SEP									
10...	0.001	0.08	0.020	0.016	0.05	280	5	0.05	--

PYRAMID AND WINNEMUCCA LAKES BASIN

301

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA

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 mi².

PERIOD OF RECORD.--October 1960 to current year.

SPECIFIC CONDUCTANCE: March 1981 to September 1983.

WATER TEMPERATURE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1985,

October 1987 to September 1988.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1985, October 1987 to September 1988.

GAGE.--Water-stage recorder and sharp-crested weir in culvert at bridge. Datum of gage is 6,241.57 ft above sea level.

REMARKS.--Records excellent except for estimated daily discharges, which are fair. Minor diversions for local water supply upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft³/s, February 1, 1963, gage height, 11.14 ft, from rating curve extended above 250 ft³/s on basis of computation of peak flow (weir formula); no flow for part of September 11, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	1130	*71	*6.92				
Minimum daily, 4.9 ft ³ /s, Aug. 10, Sept. 29.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	12	e13	11	e10	14	19	25	14	12	5.4	7.1
2	6.3	11	13	11	10	13	21	24	14	11	6.3	6.5
3	6.2	12	e13	11	13	13	21	24	13	11	6.2	6.2
4	6.2	12	e13	10	16	13	22	24	12	10	6.2	6.4
5	6.3	12	e13	11	18	13	20	24	12	9.9	6.1	6.3
6	6.2	12	e13	11	14	14	19	24	12	9.1	8.2	6.1
7	6.0	12	e12	11	13	13	19	26	13	8.6	7.0	5.8
8	6.2	12	e12	11	12	13	20	27	13	9.6	5.6	5.7
9	6.2	15	e12	11	12	12	20	27	14	8.7	5.5	5.6
10	6.0	14	12	11	11	12	20	25	12	8.6	4.9	5.7
11	5.9	12	11	10	10	12	22	24	11	10	5.5	5.0
12	6.1	12	9.5	11	11	13	21	23	11	16	6.1	5.3
13	6.3	11	9.1	12	11	13	26	23	12	12	10	5.5
14	5.9	11	9.1	12	11	14	23	23	13	13	14	5.6
15	6.2	10	8.8	12	11	14	22	23	17	12	9.1	5.9
16	6.2	e11	9.8	12	13	13	20	23	18	11	7.6	5.5
17	6.3	e12	11	12	13	13	27	25	20	13	9.4	6.1
18	6.4	e13	11	12	13	12	27	23	19	10	6.4	9.1
19	6.6	e14	e12	12	12	12	23	22	17	9.1	5.8	7.0
20	6.7	15	e12	12	16	12	23	22	13	8.3	5.1	8.1
21	6.8	17	e12	12	16	13	24	20	12	8.4	5.2	5.1
22	6.7	14	e12	11	21	13	22	19	11	8.0	5.4	6.0
23	8.5	e14	12	11	17	13	21	18	10	7.8	5.7	5.6
24	8.8	13	12	11	15	12	22	18	12	7.9	5.8	5.3
25	9.8	13	11	10	14	13	24	18	14	7.9	5.8	5.2
26	43	13	10	10	14	14	26	18	12	7.6	5.7	5.4
27	17	13	11	10	14	14	27	17	10	7.5	5.6	5.3
28	13	e13	11	e10	14	16	28	17	9.9	7.0	5.7	5.2
29	12	e13	11	e10	14	16	28	16	12	7.1	6.9	4.9
30	11	e13	11	e10	---	17	29	15	14	6.8	7.9	5.1
31	e11	---	e11	e10	---	18	---	15	---	7.9	7.9	---
TOTAL	272.1	381	353.3	341	389	417	686	672	396.9	296.8	208.0	177.6
MEAN	8.78	12.7	11.4	11.0	13.4	13.5	22.9	21.7	13.2	9.57	6.71	5.92
MAX	43	17	13	12	21	18	29	27	20	16	14	9.1
MIN	5.9	10	8.8	10	10	12	19	15	9.9	6.8	4.9	4.9
AC-FT	540	756	701	676	772	827	1360	1330	787	589	413	352

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.0	19.8	21.1	22.8	24.8	28.4	41.9	74.8	87.8	44.5	22.3	16.4
MAX	37.6	61.1	64.0	60.3	68.7	85.0	81.9	184	286	186	88.7	49.6
(WY)	1983	1984	1984	1970	1986	1986	1982	1969	1983	1983	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1961 - 1992	
ANNUAL TOTAL	5588.1		4590.7		35.1	
ANNUAL MEAN	15.3		12.5		85.3	
HIGHEST ANNUAL MEAN					10.2	
LOWEST ANNUAL MEAN					352	
HIGHEST DAILY MEAN	53	Mar 4	43	Oct 26	Feb 1	1963
LOWEST DAILY MEAN	5.8	Sep 24	4.9	Aug 10	Sep 7	1988
ANNUAL SEVEN-DAY MINIMUM	5.9	Sep 21	5.2	Sep 24	Sep 9	1977
INSTANTANEOUS PEAK FLOW			71	Oct 26	Feb 1	1963
INSTANTANEOUS PEAK STAGE			6.92	Oct 26	Feb 1	1963
ANNUAL RUNOFF (AC-FT)	11080		9110		25450	
10 PERCENT EXCEEDS	32		22		77	
50 PERCENT EXCEEDS	12		12		22	
90 PERCENT EXCEEDS	6.3		6.0		8.5	

PYRAMID AND WINNEMUCCA LAKES BASIN

303

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA

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, near center of bridge span on downstream side of U.S. Highway 50 bridge, 1.2 mi upstream from Lake Tahoe, and 1.9 mi northeast of South Lake Tahoe Post Office.

PERIOD OF RECORD.--Water years 1972-74, 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to June 1974, October 1988 to September 1992 (discontinued).

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1988 to September 1992 (discontinued).

REMARKS.--Sediment samples were collected during most days where a water temperature is published. Discharge record used to compute sediment based on sum of Trout Creek near Tahoe Valley (station 10336780) and Heavenly Valley Creek near Tahoe Valley.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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.--

SEDIMENT CONCENTRATION: Maximum daily mean, 18 mg/L (estimated), October 26; minimum daily mean, 2 mg/L, many days.

SEDIMENT LOAD: Maximum daily, 2.5 ton (estimated), October 26; minimum daily, 0.05 ton, several days.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	21.0	---
3	---	4.5	1.0	.5	---	3.5	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	14.5	---	---
7	---	---	---	---	---	---	---	15.0	---	---	---	18.0
8	---	---	.0	---	---	3.0	---	13.0	16.0	---	---	---
9	---	---	---	---	---	---	5.0	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	16.0	---	---
12	---	---	---	.0	---	---	6.0	9.0	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	2.0	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	17.5	20.0	---
17	---	---	---	---	---	---	---	9.0	---	---	---	---
18	---	---	---	---	---	4.5	---	---	---	---	---	---
19	---	---	.5	---	---	---	4.0	---	---	17.5	---	15.0
20	---	1.0	---	---	1.5	---	---	---	---	---	---	---
21	---	---	---	---	---	---	9.5	---	16.5	---	16.0	---
22	---	---	---	---	---	4.0	---	12.0	---	---	---	---
23	---	---	---	---	1.0	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	11.5	14.0	---	---	---
26	---	---	---	.0	---	---	7.5	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	9.0	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	1.0	---	---	1.0	---	8.0	---	13.0	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	6.3	4	.07	12	4	.13	13	2	.07
2	6.3	4	.07	11	3	.09	13	2	.07
3	6.2	4	.07	12	3	.10	13	2	.07
4	6.2	4	.07	12	3	.10	13	2	.07
5	6.3	4	.07	12	3	.10	13	2	.07
6	6.2	4	.07	12	3	.10	13	2	.07
7	6.0	4	.06	12	3	.10	12	2	.06
8	6.2	4	.07	12	3	.10	12	2	.06
9	6.2	4	.07	15	4	.16	12	2	.06
10	6.0	4	.06	14	3	.11	12	2	.06
11	5.9	4	.06	12	3	.10	11	2	.06
12	6.1	4	.07	12	2	.06	9.5	2	.05
13	6.3	4	.07	11	2	.06	9.1	2	.05
14	5.9	4	.06	11	2	.06	9.1	2	.05
15	6.2	4	.07	10	2	.05	8.8	2	.05
16	6.2	4	.07	11	3	.09	9.8	2	.05
17	6.3	4	.07	12	3	.10	11	2	.06
18	6.4	4	.07	13	3	.11	11	2	.06
19	6.6	4	.07	14	4	.15	12	2	.06
20	6.7	4	.07	15	5	.20	12	2	.06
21	6.8	4	.07	17	5	.23	12	2	.06
22	6.7	5	.09	14	4	.15	12	2	.06
23	8.5	6	.14	14	4	.15	12	2	.06
24	8.8	6	.14	13	4	.14	12	2	.06
25	9.8	6	.16	13	4	.14	11	2	.06
26	43	18	2.5	13	3	.11	10	2	.05
27	17	7	.32	13	3	.11	11	2	.06
28	13	6	.21	13	3	.11	11	2	.06
29	12	5	.16	13	3	.11	11	2	.06
30	11	4	.12	13	2	.07	11	2	.06
31	11	4	.12	---	---	---	11	2	.06
TOTAL	272.1	---	5.39	381	---	3.39	353.3	---	1.86
JANUARY			FEBRUARY			MARCH			
1	11	2	.06	10	3	.08	14	4	.15
2	11	2	.06	10	3	.08	13	4	.14
3	11	2	.06	13	3	.11	13	4	.14
4	10	2	.05	16	3	.13	13	4	.14
5	11	2	.06	18	3	.15	13	4	.14
6	11	2	.06	14	3	.11	14	4	.15
7	11	2	.06	13	3	.11	13	4	.14
8	11	2	.06	12	3	.10	13	4	.14
9	11	2	.06	12	3	.10	12	4	.13
10	11	2	.06	11	3	.09	12	4	.13
11	10	2	.05	10	3	.08	12	4	.13
12	11	2	.06	11	3	.09	13	4	.14
13	12	2	.06	11	3	.09	13	5	.18
14	12	2	.06	11	3	.09	14	5	.19
15	12	2	.06	11	3	.09	14	5	.19
16	12	2	.06	13	4	.14	13	5	.18
17	12	3	.10	13	4	.14	13	5	.18
18	12	3	.10	13	4	.14	12	5	.16
19	12	3	.10	12	5	.16	12	5	.16
20	12	3	.10	16	8	.35	12	5	.16
21	12	3	.10	16	5	.22	13	5	.18
22	11	4	.12	21	6	.34	13	5	.18
23	11	4	.12	17	4	.18	13	5	.18
24	11	4	.12	15	3	.12	12	5	.16
25	10	4	.11	14	3	.11	13	5	.18
26	10	4	.11	14	3	.11	14	5	.19
27	10	4	.11	14	3	.11	14	6	.23
28	10	4	.11	14	4	.15	16	6	.26
29	10	3	.08	14	4	.15	16	6	.26
30	10	3	.08	---	---	---	17	6	.28
31	10	3	.08	---	---	---	18	6	.29
TOTAL	341	---	2.48	389	---	3.92	417	---	5.46

PYRAMID AND WINNEMUCCA LAKES BASIN

305

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	19	7	.36	25	5	.34	14	2	.08
2	21	9	.51	24	4	.26	14	3	.11
3	21	7	.40	24	4	.26	13	3	.11
4	22	7	.42	24	5	.32	12	4	.13
5	20	6	.32	24	6	.39	12	4	.13
6	19	6	.31	24	6	.39	12	5	.16
7	19	7	.36	26	7	.49	13	5	.18
8	20	6	.32	27	8	.58	13	6	.21
9	20	5	.27	27	7	.51	14	6	.23
10	20	6	.32	25	6	.40	12	6	.19
11	22	6	.36	24	5	.32	11	6	.18
12	21	7	.40	23	5	.31	11	6	.18
13	26	9	.63	23	5	.31	12	6	.19
14	23	7	.43	23	5	.31	13	7	.25
15	22	7	.42	23	4	.25	17	8	.37
16	20	6	.32	23	4	.25	18	8	.39
17	27	16	1.3	25	4	.27	20	7	.38
18	27	11	.80	23	4	.25	19	7	.36
19	23	5	.31	22	4	.24	17	7	.32
20	23	5	.31	22	4	.24	13	7	.25
21	24	7	.45	20	4	.22	12	7	.23
22	22	5	.30	19	4	.21	11	7	.21
23	21	5	.28	18	4	.19	10	7	.19
24	22	6	.36	18	4	.19	12	8	.26
25	24	5	.32	18	4	.19	14	6	.23
26	26	7	.49	18	4	.19	12	6	.19
27	27	8	.58	17	4	.18	10	6	.16
28	28	7	.53	17	3	.14	9.9	6	.16
29	28	6	.45	16	3	.13	12	8	.26
30	29	6	.47	15	2	.08	14	5	.19
31	---	---	---	15	2	.08	---	---	---
TOTAL	686	---	13.10	672	---	8.49	396.9	---	6.48
JULY			AUGUST			SEPTEMBER			
1	12	5	.16	5.4	5	.07	7.1	4	.08
2	11	5	.15	6.3	4	.07	6.5	4	.07
3	11	4	.12	6.2	4	.07	6.2	4	.07
4	10	4	.11	6.2	4	.07	6.4	4	.07
5	9.9	4	.11	6.1	4	.07	6.3	4	.07
6	9.1	4	.10	8.2	6	.13	6.1	4	.07
7	8.6	4	.09	7.0	6	.11	5.8	4	.06
8	9.6	6	.16	5.6	5	.08	5.7	4	.06
9	8.7	4	.09	5.5	5	.07	5.6	4	.06
10	8.6	4	.09	4.9	4	.05	5.7	4	.06
11	10	6	.16	5.5	4	.06	5.0	4	.05
12	16	9	.39	6.1	4	.07	5.3	4	.06
13	12	7	.23	10	6	.16	5.5	4	.06
14	13	8	.28	14	7	.26	5.6	4	.06
15	12	6	.19	9.1	5	.12	5.9	4	.06
16	11	7	.21	7.6	4	.08	5.5	4	.06
17	13	7	.25	9.4	7	.18	6.1	5	.08
18	10	6	.16	6.4	5	.09	9.1	7	.17
19	9.1	4	.10	5.8	5	.08	7.0	6	.11
20	8.3	4	.09	5.1	5	.07	8.1	7	.15
21	8.4	4	.09	5.2	5	.07	5.1	5	.07
22	8.0	4	.09	5.4	5	.07	6.0	5	.08
23	7.8	4	.08	5.7	5	.08	5.6	5	.08
24	7.9	4	.09	5.8	5	.08	5.3	4	.06
25	7.9	4	.09	5.8	5	.08	5.2	4	.06
26	7.6	4	.08	5.7	5	.08	5.4	4	.06
27	7.5	4	.08	5.6	5	.08	5.3	4	.06
28	7.0	4	.08	5.7	5	.08	5.2	4	.06
29	7.1	4	.08	6.9	5	.09	4.9	4	.05
30	6.8	4	.07	7.9	4	.09	5.1	4	.06
31	7.9	6	.13	7.9	4	.09	---	---	---
TOTAL	296.8	---	4.20	208.0	---	2.85	177.6	---	2.17
YEAR	4590.7		59.79						

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, and 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City.

DRAINAGE AREA.--506 mi², 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 sea level. Prior to Oct. 1, 1957, nonrecording gages at several sites near outlet of lake at same datum except for water years 1907, 1908 which were at a datum 5.5 ft higher. Oct. 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 Sept. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft, July 14, 15, 17, 18, 1907; minimum, 6,220.80 ft, Sept. 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,222.04 ft, Oct. 1, 2; minimum, 6,220.80 ft, Sept. 30.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on topographic information available in April 1959)

6,223	0	6,227	486,800
6,224	121,400	6,228	609,300
6,225	243,000	6,229.1	744,600
6,226	364,800		

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.04	1.75	1.61	1.50	1.35	1.58	1.70	1.81	1.86	1.72	1.52	1.16
2	2.04	1.75	1.59	1.50	1.36	1.58	1.70	1.81	1.85	1.71	1.50	1.12
3	2.03	1.74	1.60	1.50	1.35	1.56	1.70	1.81	1.84	1.70	1.49	1.09
4	2.02	1.74	1.58	1.54	1.34	1.57	1.69	1.81	1.84	1.68	1.48	1.12
5	2.01	1.74	1.58	1.51	1.34	1.62	1.69	1.82	1.83	1.64	1.46	1.08
6	1.99	1.74	1.56	1.48	1.34	1.63	1.70	1.84	1.82	1.65	1.44	1.06
7	1.99	1.73	1.60	1.49	1.35	1.64	1.70	1.85	1.81	1.66	1.45	1.04
8	1.97	1.73	1.57	1.48	1.35	1.64	1.70	1.86	1.81	1.64	1.44	1.04
9	1.95	1.75	1.56	1.48	1.37	1.64	1.69	1.86	1.79	1.64	1.43	1.04
10	1.94	1.73	1.57	1.48	1.36	1.64	1.69	1.85	1.78	1.63	1.45	1.05
11	1.92	1.73	1.54	1.50	1.41	1.64	1.68	1.85	1.75	1.65	1.43	e1.04
12	1.93	1.72	1.54	1.43	1.37	1.64	1.71	1.86	1.74	1.65	1.44	e1.03
13	1.92	1.71	1.54	1.48	1.39	1.63	1.71	1.86	1.70	1.66	1.42	e1.02
14	1.90	1.70	1.53	1.44	1.44	1.62	1.72	1.86	1.73	1.66	1.45	e1.01
15	1.90	1.66	1.54	1.43	1.46	1.62	1.72	1.86	1.81	1.67	1.43	e1.00
16	1.89	1.68	1.54	1.45	1.48	1.63	1.82	1.87	1.79	1.66	1.40	e.99
17	1.87	1.76	1.55	1.46	1.49	1.64	1.74	1.87	1.80	1.65	1.39	e.98
18	1.86	1.72	1.55	1.42	1.49	1.63	1.76	1.86	1.79	1.64	1.37	e.97
19	1.85	1.75	1.55	1.42	1.52	1.63	1.76	1.84	1.80	1.63	1.37	e.96
20	1.82	1.71	1.53	1.41	1.52	1.62	1.76	1.86	1.80	1.60	1.34	e.95
21	1.81	1.71	1.52	1.42	1.53	1.62	1.75	1.85	1.80	1.59	1.34	e.94
22	1.78	1.71	1.51	1.41	1.54	1.65	1.76	1.85	1.78	1.58	1.29	e.93
23	1.71	1.71	1.51	1.39	1.57	1.65	1.77	1.86	1.77	1.56	1.27	e.92
24	1.68	1.70	1.51	1.37	1.58	1.64	1.77	1.86	1.78	1.59	1.23	e.91
25	1.73	1.70	1.50	1.39	1.56	1.65	1.79	1.85	1.77	1.56	1.23	e.89
26	1.89	1.70	1.50	1.40	1.57	1.66	1.79	1.86	1.78	1.57	1.21	e.87
27	1.84	1.70	1.49	1.43	1.57	1.66	1.80	1.84	1.76	1.55	1.19	e.85
28	1.83	1.64	1.49	1.39	1.58	1.66	1.80	1.86	1.77	1.55	1.18	e.83
29	1.84	1.66	1.52	1.37	1.58	1.66	1.77	1.85	1.76	1.54	1.17	e.81
30	1.76	1.65	1.51	1.38	---	1.69	1.80	1.86	1.72	1.53	1.17	e.80
31	1.75	---	1.49	1.39	---	1.70	---	1.85	---	1.53	1.16	---
MEAN	1.89	1.71	1.54	1.44	1.45	1.63	1.74	1.85	1.79	1.62	1.36	.98
MAX	2.04	1.76	1.61	1.54	1.58	1.70	1.82	1.87	1.86	1.72	1.52	1.16
MIN	1.68	1.64	1.49	1.37	1.34	1.56	1.68	1.81	1.70	1.53	1.16	.80
a	0	0	0	0	0	0	0	0	0	0	0	0
b	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1991	MEAN 2.13	MAX 2.71	MIN 1.49	b 0								
WTR YR 1992	MEAN 1.59	MAX 2.04	MIN .80	b 0								

e Estimated.

a Usable contents, in acre-feet, at end of month.

b Change in contents, in acre-feet.

NOTE.--Add 6,220 ft to obtain elevation, U.S. Bureau of Reclamation datum, at 2400 hours.

PYRAMID AND WINNEMUCCA LAKES BASIN

307

10337500 TRUCKEE RIVER AT TAHOE CITY, CA

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.

DRAINAGE AREA.--507 mi².

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."
CHEMICAL DATA: Water years 1978 to 1981, monthly.

REVISED RECORDS.--WDR CA-78-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,216.59 ft above sea level. Prior to Nov. 12, 1912, nonrecording gage at site 370 ft upstream at different datum. Nov. 12, 1912, to Sept. 30, 1937, nonrecording gage; Oct. 1, 1937, to Aug. 21, 1957, water-stage recorder at datum 2.26 ft higher; and Aug. 22, 1957, to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

REMARKS.--Records poor. Stage-discharge relation affected by beaver dams and ice. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,630 ft³/s, June 19, 1969, gage height, 9.32 ft; no flow for parts of many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, Oct. 26, gage height, 2.86 ft; minimum daily, 0.10 ft³/s many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
2	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
3	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
4	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
5	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
6	e.20	e.20	e.20	e.20	e.20	e.40	e.35	e.10	e.10	e.20	e.20	e.10
7	e.20	e.20	e.20	e.20	e.20	e.40	e.30	e.30	e.10	e.20	e.20	e.10
8	e.20	e.20	e.20	e.20	e.20	e.40	e.30	e.60	e.10	e.20	e.20	e.10
9	e.20	e.20	e.20	e.20	e.20	e.40	e.30	e.30	e.10	e.20	e.20	e.15
10	e.20	e.20	e.20	e.20	e.20	e.40	e.30	e.10	e.10	e.20	e.20	e.15
11	e.20	e.20	e.20	e.20	e.20	e.40	e.30	e.10	e.10	e.20	e.20	e.15
12	e.20	e.20	e.20	e.20	e.20	e.40	e.50	e.10	e.10	e.50	e.20	e.15
13	e.20	e.20	e.20	e.20	e.20	e.35	e.40	e.10	e.10	e.20	e.20	e.15
14	e.20	e.20	e.20	e.20	e.20	e.35	e.35	e.10	e.10	e.20	e.20	e.15
15	e.20	e.20	e.20	e.20	e.20	e.35	e.30	e.10	e.20	e.20	e.20	e.15
16	e.20	e.20	e.20	e.20	e.20	e.35	e.50	e.10	e.40	e.20	e.20	e.15
17	e.20	e.20	e.20	e.20	e.20	e.35	e.40	e.10	e.20	e.20	e.20	e.30
18	e.20	e.20	e.20	e.20	e.20	e.35	e.35	e.10	e.20	e.20	e.20	e.15
19	e.20	e.20	e.20	e.20	e.40	e.35	e.30	e.10	e.20	e.20	e.15	e.15
20	e.20	e.50	e.20	e.20	e1.0	e.35	e.30	e.10	e.20	e.20	e.15	e.15
21	e.20	e.20	e.20	e.20	e1.5	e.35	e.25	e.10	e.20	e.20	e.15	e.15
22	e.20	e.20	e.20	e.20	e1.0	e.35	e.25	e.10	e.20	e.20	e.15	e.15
23	e.20	e.20	e.20	e.20	e.40	e.35	e.25	e.10	e.20	e.20	e.15	e.15
24	e.20	e.20	e.20	e.20	e.40	e.35	e.20	e.10	e.20	e.20	e.15	e.20
25	e.50	e.20	e.20	e.20	e.40	e.35	e.20	e.10	e.20	e.20	e.15	e.20
26	e2.5	e.20	e.20	e.20	e.40	e.35	e.20	e.10	e.20	e.20	e.15	e.20
27	e.50	e.20	e.20	e.20	e.40	e.35	e.15	e.10	e.20	e.20	e.15	e.20
28	e.20	e.20	e.20	e.20	e.40	e.35	e.15	e.10	e.30	e.20	e.10	e.20
29	e.20	e.20	e.20	e.20	e.40	e.35	e.15	e.10	e.50	e.20	e.10	e.20
30	e.20	e.20	e.20	e.20	---	e.35	e.10	e.10	e.30	e.20	e.10	e.20
31	e.20	---	e.20	e.20	---	e.35	---	e.10	---	e.20	e.10	---
TOTAL	9.10	6.30	6.20	6.20	10.30	11.45	8.90	4.00	5.30	6.50	5.35	4.60
MEAN	.29	.21	.20	.20	.36	.37	.30	.13	.18	.21	.17	.15
MAX	2.5	.50	.20	.20	1.5	.40	.50	.60	.50	.50	.20	.30
MIN	.20	.20	.20	.20	.20	.35	.10	.10	.10	.20	.10	.10
AC-FT	18	12	12	12	20	23	18	7.9	11	13	11	9.1

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10337500 TRUCKEE RIVER AT TAHOE CITY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	190	206	229	225	277	248	169	151	222	281	324	275
MAX	413	1575	2209	2088	1767	2235	1806	1746	1673	1071	638	687
(WY)	1910	1983	1984	1984	1983	1986	1983	1958	1969	1983	1918	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1932	1927	1925	1925	1925	1925	1919	1919	1921	1931	1931	1931

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR				FOR 1992 WATER YEAR				WATER YEARS 1909 - 1992			
ANNUAL TOTAL	120.20				84.20							
ANNUAL MEAN	.33				.23				231			
HIGHEST ANNUAL MEAN									1150			
LOWEST ANNUAL MEAN									1983			
HIGHEST DAILY MEAN	10	Mar	4		2.5	Oct	26		2620	.23		1992
LOWEST DAILY MEAN	.20	Jan	1		.10	Apr	30		.00		Jun	20 1969
ANNUAL SEVEN-DAY MINIMUM	.20	Jan	1		.10	Apr	30		.00		Jan	4 1914
INSTANTANEOUS PEAK FLOW					unknown				2630			
INSTANTANEOUS PEAK STAGE					2.86 Oct 26				9.32 Jun 19 1969			
ANNUAL RUNOFF (AC-FT)	238				167				167100			
10 PERCENT EXCEEDS	.70				.35				471			
50 PERCENT EXCEEDS	.20				.20				148			
90 PERCENT EXCEEDS	.20				.10				.00			

PYRAMID AND WINNEMUCCA LAKES BASIN

309

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 mi².

PERIOD OF RECORD.--January 1989 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,490 acre-ft, May 5, June 7-9, 1989, elevation, 5,935.8 ft; minimum, 2,510 acre-ft, Jan. 24, 28-31, 1991, elevation, 5,927.23 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 8,630 acre-ft, May 27, 28, 30, elevation, 5,934.79 ft; minimum, 2,770 acre-ft, several days, elevation, 5,927.58 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	5,932	6,310
5,926.0	1,600	5,934	7,970
5,928.0	3,120	5,936	9,670
5,930.0	4,690		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3760	3140	2930	2850	2780	3580	4460	7900	8610	7780	6170	5530
2	3720	3120	2920	2840	2780	3590	4630	7940	8620	7680	6160	5530
3	3670	3100	2910	2840	2770	3570	4820	7980	8610	7570	6150	5470
4	3630	3090	2900	2840	2770	3560	4960	8030	8610	7490	6110	5430
5	3560	3060	2890	2880	2790	3630	5070	8120	8590	7410	6100	5400
6	3530	3040	2860	2870	2800	3650	5170	8150	8580	7310	6080	5370
7	3480	3030	2900	2850	2810	3620	5250	8260	8570	7180	6060	5350
8	3430	3020	2880	2850	2810	3620	5340	8320	8580	7000	6010	5330
9	3400	3030	2890	2850	2820	3590	5460	8390	8540	6830	5990	5280
10	3370	3030	2860	2840	2850	3590	5540	8390	8530	6690	5960	5250
11	3330	3030	2870	2830	2880	3580	5650	8420	8500	6560	5950	5120
12	3290	3000	2860	2830	2920	3580	5830	8470	8470	6460	5940	4970
13	3270	2970	2850	2830	2930	3580	5970	8490	8450	6370	5930	4800
14	3240	2930	2850	2810	2970	3600	6110	8520	8450	6360	5910	4660
15	3220	2930	2840	2820	3000	3620	6230	8530	8470	6360	5890	4460
16	3190	2880	2840	2820	3080	3630	6340	8550	8470	6380	5860	4330
17	3160	3050	2830	2800	3070	3590	6630	8540	8470	6360	5850	4190
18	3130	3030	2890	2800	3080	3590	6780	8560	8470	6360	5810	4030
19	3090	3020	2870	2800	3160	3590	6880	8570	8440	6340	5800	3900
20	3040	3070	2880	2800	3260	3590	6970	8600	8420	6330	5770	3780
21	3000	3060	2880	2790	3340	3580	7090	8610	8420	6320	5720	3670
22	2980	3030	2870	2790	3430	3590	7160	8590	8410	6300	5690	3580
23	2950	3030	2860	2780	3460	3580	7240	8600	8400	6280	5670	3510
24	2920	3010	2840	2770	3480	3580	7310	8600	8410	6290	5650	3450
25	3030	3010	2850	2770	3500	3600	7400	8590	8360	6270	5640	3380
26	3290	2990	2840	2770	3510	3670	7480	8610	8240	6240	5620	3320
27	3260	2990	2830	2770	3540	3780	7570	8630	8140	6240	5610	3270
28	3240	3000	2840	2780	3560	3890	7670	8630	8010	6220	5590	3240
29	3170	2950	2880	2770	3580	4010	7710	8610	7960	6220	5600	3210
30	3180	2930	2870	2770	---	4160	7820	8630	7870	6210	5580	3160
31	3160	---	2860	2770	---	4300	---	8620	---	6200	5570	---
MAX	3760	3140	2930	2880	3580	4300	7820	8630	8620	7780	6170	5530
MIN	2920	2880	2830	2770	2770	3560	4460	7900	7870	6200	5570	3160
a	5928.06	5927.77	5927.69	5927.58	5928.61	5929.53	5933.83	5934.78	5933.89	5931.87	5931.10	5928.06
b	-650	-230	-70	-90	+810	+720	+3520	+800	-750	-1670	-630	-2410
CAL YR 1991	MAX 9450	MIN 2510	b +280									
WTR YR 1992	MAX 8630	MIN 2770	b -650									

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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 Oct. 3, 1989. Datum of gage is 5,924.40 ft above sea level. Nov. 1, 1909, to Aug. 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated at dam at outlet of Donner Lake (station 10338400) since 1928.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 707 ft³/s, Feb. 19, 1986; gage height, 4.83 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 88 ft³/s, July 7, Sept. 11, gage height, 3.76 ft; minimum daily, 0.65 ft³/s, July 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	12	10	7.3	4.9	32	1.5	6.0	2.5	50	1.8	3.6
2	20	11	9.4	6.9	5.0	32	1.5	4.2	2.4	49	1.1	7.6
3	20	11	9.4	6.7	4.9	31	1.4	3.0	2.2	48	.78	12
4	20	11	8.9	6.4	5.0	31	1.1	2.8	2.0	37	4.6	11
5	19	11	8.9	7.2	5.1	32	.81	2.7	1.8	43	5.8	11
6	18	10	8.6	7.3	5.5	34	2.7	2.5	2.3	47	2.2	11
7	17	10	9.2	7.3	5.5	33	5.0	2.2	2.7	67	5.1	9.8
8	17	10	9.0	7.1	5.8	32	5.0	2.1	2.4	84	11	9.6
9	16	10	8.9	6.9	6.0	32	5.0	1.9	2.7	82	10	9.8
10	15	10	8.4	6.8	6.3	31	5.0	1.9	2.6	72	3.5	30
11	15	10	8.4	6.5	7.8	31	5.5	1.9	2.4	65	4.9	61
12	14	9.6	7.9	6.4	8.6	31	5.5	2.0	2.6	64	7.8	76
13	14	10	7.8	6.4	9.3	31	5.5	2.0	2.2	29	7.9	78
14	14	11	7.5	6.0	9.4	31	5.9	2.0	2.2	2.5	7.4	79
15	13	10	7.3	5.9	12	31	5.9	2.0	2.3	1.3	6.4	78
16	13	9.4	7.3	5.9	13	33	6.0	2.6	2.2	1.0	6.0	72
17	12	11	7.0	5.7	13	32	6.4	2.7	2.3	.92	5.9	76
18	12	13	7.6	5.7	13	30	6.9	2.4	2.4	1.4	5.8	75
19	11	12	8.1	5.9	14	30	6.9	2.2	2.3	.98	5.7	66
20	11	13	7.8	5.9	19	29	6.9	2.0	2.3	1.3	5.5	59
21	10	13	7.7	5.7	22	29	6.9	1.9	2.3	1.1	5.2	54
22	9.9	13	7.3	5.5	26	29	6.5	1.9	2.3	.65	4.6	36
23	9.3	12	7.3	5.5	29	30	6.4	2.6	2.1	1.0	4.3	25
24	8.8	12	7.1	5.4	30	30	6.3	2.6	2.4	1.1	4.1	28
25	8.7	12	6.9	5.5	30	14	6.0	1.9	28	1.2	3.9	31
26	14	11	6.8	5.3	30	1.9	6.1	1.9	50	1.2	3.9	28
27	14	12	6.4	5.1	31	1.9	5.9	2.1	53	1.4	3.9	25
28	14	12	6.6	4.9	31	2.0	5.9	2.1	52	3.1	3.8	23
29	14	11	7.4	5.0	32	1.9	6.1	2.2	51	2.9	3.8	21
30	13	10	7.7	5.0	---	1.8	6.4	3.1	50	1.1	3.7	19
31	12	---	7.3	4.8	---	1.7	---	4.3	---	1.0	3.7	---
TOTAL	439.7	333.0	245.9	187.9	434.1	772.2	152.91	77.7	339.9	762.15	154.08	1125.4
MEAN	14.2	11.1	7.93	6.06	15.0	24.9	5.10	2.51	11.3	24.6	4.97	37.5
MAX	21	13	10	7.3	32	34	6.9	6.0	53	84	11	79
MIN	8.7	9.4	6.4	4.8	4.9	1.7	.81	1.9	1.8	.65	.78	3.6
AC-FT	872	661	488	373	861	1530	303	154	674	1510	306	2230

PYRAMID AND WINNEMUCCA LAKES BASIN

10338500 DONNER CREEK AT DONNER LAKE, NEAR TRUCKEE, CA--Continued

311

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	30.0	28.8	31.4	29.7	30.8	33.5	49.8	84.4	44.4	11.8	8.21	23.1
MAX	85.7	195	214	174	197	182	144	243	244	67.2	52.7	99.1
(WY)	1973	1951	1951	1970	1986	1986	1940	1952	1983	1934	1932	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1930	1930	1930	1929	1929	1929	1929	1929	1929	1937	1936	1930

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1929 - 1992	
ANNUAL TOTAL	7021.19		5024.94			
ANNUAL MEAN	19.2		13.7			
HIGHEST ANNUAL MEAN					34.7	
LOWEST ANNUAL MEAN					83.3	1982
HIGHEST DAILY MEAN					7.71	1977
LOWEST DAILY MEAN	108	Aug 14	84	Jul 8	700	Nov 21 1950
ANNUAL SEVEN-DAY MINIMUM	.28	Aug 25	.65	Jul 22	.00	Jan 1 1929
INSTANTANEOUS PEAK FLOW	.72	Apr 15	1.0	Jul 19	.00	Jan 1 1929
INSTANTANEOUS PEAK STAGE			88	Jul 7	707	Feb 19 1986
ANNUAL RUNOFF (AC-FT)	13930		3.76	Jul 7	4.83	Feb 19 1986
10 PERCENT EXCEEDS	67		9970		25160	
50 PERCENT EXCEEDS	7.3		32		95	
90 PERCENT EXCEEDS	1.7		7.3		12	
			2.0		.00	

PYRAMID AND WINNEMUCCA LAKES BASIN

10339250 MARTIS CREEK AT STATE HIGHWAY 267, NEAR TRUCKEE, CA

LOCATION.--Lat 39°18'08", long 120°07'13", in SW 1/4 SW 1/4 sec.20, T.17 N., R.17 E., Placer County, Hydrologic Unit 16050102, 4.0 mi southeast of Truckee. Water-quality samples are collected 300 ft upstream from State Highway 267.

DRAINAGE AREA.--25.8 mi².

PERIOD OF RECORD.--Water years 1975 to current year.

CHEMICAL DATA: Water years 1975 to current year.

WATER TEMPERATURE: Water years 1975 to September 1988.

SEDIMENT DATA: Water years 1975, 1977 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October to November 1974, August 1975 to September 1988.

REVISED RECORDS.--WDR CA-80-3: Drainage area.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 08...	1030	1.8	153	7.9	7.5	2.6	620	9.6	99
JAN 07...	1145	3.8	137	8.0	0.0	--	613	11.6	99
APR 07...	1050	9.8	110	7.8	4.5	2.4	620	10.7	102
JUN 16...	1130	3.0	135	8.2	10.0	--	620	10.4	114
AUG 13...	0950	1.5	145	7.9	14.0	3.0	623	7.7	92
DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 08...	87	72	<0.050	0.020	<0.20	0.030	--	9	2
JAN 07...	79	65	<0.050	0.010	<0.20	0.080	0.020	<1	1
APR 07...	61	50	<0.050	<0.010	0.20	0.020	<0.010	6	1
JUN 16...	83	68	<0.050	0.020	<0.20	<0.010	0.020	2	<1
AUG 13...	93	76	<0.050	0.040	<0.20	0.020	<0.010	2	<1
DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 08...	590	360	7	<1	<4	40	32	20	4
JAN 07...	260	140	1	<1	<4	20	14	<10	3
APR 07...	310	190	<1	<1	<4	20	15	<10	3
JUN 16...	470	280	<1	<1	<4	30	14	<10	<3
AUG 13...	760	370	1	<1	<4	100	68	20	<3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 08...	1030	1.8	7.5	2	0.01
JAN 07...	1145	3.8	0.0	2	0.02
APR 07...	1050	9.8	4.5	3	0.08
JUN 16...	1130	3.0	10.0	4	0.03
AUG 13...	0950	1.5	14.0	6	0.02

PYRAMID AND WINNEMUCCA LAKES BASIN

313

10339380 MARTIS CREEK LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'38", long 120°06'48", in NE 1/4 NW 1/4 sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, near intake structure at Martis Creek Dam, 2.0 mi upstream from mouth, and 3.5 mi east of Truckee.

DRAINAGE AREA.--39.6 mi².

PERIOD OF RECORD.--

WATER-CONTENT DATA: Water years 1972-90.

CHEMICAL DATA: Water years 1975 to current year.

SEDIMENT DATA: Water years 1975-76, 1978 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3)
OCT 08...	1100	159	8.6	16.0	3.7	620	8.2	103	91	1
JAN 07...	1415	103	8.0	1.0	2.9	615	10.2	89	62	0
APR 07...	1130	128	8.3	10.5	2.6	620	10.0	110	73	0
JUN 16...	1210	130	9.7	16.5	--	620	8.2	104	34	22
AUG 13...	1030	149	10.1	21.0	2.3	625	10.3	142	23	33

DATE	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS TOTAL (MG/L AS P)	PHOSPHORUS DIS-SOLVED (MG/L AS P)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT 08...	76	<0.050	0.020	0.48	0.50	--	0.040	0.010	3	<1
JAN 07...	51	0.220	0.060	0.64	0.70	0.92	0.140	0.030	1	1
APR 07...	60	<0.050	<0.010	--	0.30	--	0.020	<0.010	2	1
JUN 16...	64	<0.050	0.020	0.28	0.30	--	0.020	0.020	6	2
AUG 13...	73	<0.050	<0.010	--	1.2	--	0.080	<0.010	3	<1

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DIS-SOLVED (UG/L AS MN)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 08...	140	45	2	<1	<4	30	8	<10	<3
JAN 07...	--	120	<1	<1	<4	60	5	10	<3
APR 07...	380	140	3	<1	<4	30	4	10	5
JUN 16...	230	77	--	4	<4	30	2	10	<3
AUG 13...	140	45	2	<1	<4	40	8	20	<3

SUSPENDED SEDIMENT CONCENTRATION, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)
OCT 08...	1100	16.0	2
JAN 07...	1415	1.0	27
APR 07...	1130	10.5	7
JUN 16...	1210	16.5	1
AUG 13...	1030	21.0	7

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 mi².

PERIOD OF RECORD.--

WATER-DISCHARGE DATA: Water years 1959-90.

CHEMICAL DATA: Water years 1975 to current year.

WATER TEMPERATURE: Water years 1975 to current year.

SEDIMENT DATA: Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1974 to current year.

INSTRUMENTATION.--Digital water-temperature recorder since October 1974.

REMARKS.--Water temperature is affected by regulation from Martis Creek Lake Dam (station 10339380). Missing record September 2-30 due to equipment malfunction. Unpublished chemical-quality, water temperature, and sediment data prior to October 1974, available at U.S. Geological Survey office in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 24.5 °C, July 22, August 9, 1992; minimum recorded, 0.0 °C, February 16, 17, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 24.5 °C, July 22, August 9; minimum recorded, 1.0 °C, November 21-23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3
OCT 08...	1215	3.4	157	9.0	16.0	2.0	620	10.7	134	75
JAN 07...	1230	5.9	152	8.5	4.5	0.10	615	10.6	102	91
APR 07...	1350	16	128	8.6	11.5	2.7	620	10.5	119	68
JUN 16...	1430	4.3	131	9.8	18.5	--	620	10.0	132	26
AUG 13...	1310	2.2	143	9.3	22.0	2.5	625	9.5	133	68
DATE	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS TOTAL (MG/L AS P)	PHOS-PHORUS DIS-SOLVED (UG/L AS P)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)
OCT 08...	7	74	<0.050	0.020	0.28	0.30	--	0.030	<0.010	3
JAN 07...	1	76	0.055	<0.010	--	0.20	0.26	0.030	0.020	<1
APR 07...	2	59	<0.050	<0.010	--	0.30	--	0.040	<0.010	2
JUN 16...	27	66	<0.050	0.020	0.18	0.20	--	0.010	0.010	<1
AUG 13...	11	76	0.097	0.060	0.64	0.70	0.80	0.070	0.030	1

PYRAMID AND WINNEMUCCA LAKES BASIN

315

10339400 MARTIS CREEK NEAR TRUCKEE, CA-Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 08...	<1	230	58	2	<1	<4	50	19	<10	<3
JAN 07...	1	220	90	<1	<1	<4	30	19	30	<3
APR 07...	<1	380	160	1	<1	<4	40	15	10	<3
JUN 16...	<1	240	100	<1	<1	<4	40	7	<10	<3
AUG 13...	<1	280	80	<1	<1	<4	110	44	10	5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT 08...	1215	3.4	16.0	3	0.03
JAN 07...	1230	5.9	4.5	2	0.03
APR 07...	1350	16	11.5	6	0.27
JUN 16...	1430	4.3	18.5	3	0.03
AUG 13...	1310	2.2	22.0	9	0.05

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.0	9.0	6.0	4.5	2.5	5.0	3.5	4.5	2.5	5.0	3.5
2	17.5	12.0	8.5	5.5	5.0	3.0	5.0	3.0	5.0	2.5	5.0	4.0
3	16.5	12.0	8.5	6.0	5.5	3.0	4.5	3.0	5.0	2.5	5.5	4.0
4	17.0	11.5	9.0	6.0	5.5	3.0	5.0	3.5	5.5	3.0	5.5	4.0
5	17.0	12.0	9.5	6.5	5.5	3.0	4.5	3.0	4.0	2.5	6.0	4.0
6	17.0	12.0	9.5	6.5	5.5	4.0	5.5	3.0	4.5	3.0	5.5	4.0
7	16.5	12.0	9.5	6.5	4.5	3.0	4.5	3.0	5.0	3.5	5.5	4.5
8	16.5	12.0	10.0	7.0	5.0	3.0	5.0	2.5	4.5	3.5	6.0	4.5
9	16.0	11.5	9.5	7.5	5.5	3.0	5.0	2.5	5.0	3.0	6.0	4.5
10	15.5	11.0	9.5	7.5	5.5	3.5	5.0	3.0	5.0	3.5	6.5	4.5
11	16.5	11.0	9.5	7.0	5.5	3.5	4.5	2.5	5.0	2.5	6.5	4.5
12	16.5	12.0	9.5	7.0	5.5	3.0	5.0	2.5	4.0	3.0	6.5	4.5
13	16.0	11.5	9.5	6.5	5.5	3.0	4.5	2.5	4.5	3.0	7.0	4.5
14	16.5	11.0	7.5	6.0	5.5	3.5	5.0	2.5	5.0	2.0	7.0	4.5
15	16.0	11.0	8.0	5.5	5.5	3.5	5.0	3.0	4.5	2.5	6.5	4.5
16	15.5	11.0	8.0	5.0	5.0	3.5	4.5	3.0	4.5	2.5	6.5	4.5
17	16.0	11.0	6.0	5.0	4.5	3.5	5.0	3.0	4.5	3.0	7.0	5.0
18	15.5	11.0	6.0	4.5	4.5	3.0	5.0	2.5	4.0	3.0	7.5	5.0
19	15.0	11.0	6.0	4.5	5.0	3.0	5.0	2.5	4.5	3.5	7.5	5.0
20	14.5	10.5	6.0	4.5	5.0	3.0	5.0	2.5	4.0	3.0	8.0	5.5
21	14.5	10.0	5.5	1.0	5.0	3.0	5.0	2.5	3.5	2.5	8.0	5.5
22	13.5	10.0	5.0	1.0	5.0	3.5	5.0	2.5	3.0	2.5	7.0	5.0
23	12.5	9.5	3.5	1.0	5.5	3.5	5.0	2.5	3.5	2.5	7.5	5.5
24	12.5	9.0	6.5	3.5	5.5	3.0	5.0	2.5	4.0	2.5	8.0	6.0
25	11.0	9.5	6.5	4.5	5.5	3.5	5.5	3.0	4.5	2.5	8.5	6.0
26	10.0	9.5	6.0	4.0	5.0	3.5	5.0	2.5	4.5	2.5	8.5	6.5
27	10.0	8.0	5.0	4.0	5.0	3.5	5.5	2.5	4.5	3.0	8.5	6.5
28	9.5	7.0	5.5	3.5	5.0	3.5	5.0	2.5	5.0	3.0	9.5	7.0
29	9.0	7.0	4.0	3.0	4.5	3.5	5.5	2.5	5.0	3.5	9.5	7.5
30	9.5	6.5	4.5	3.0	5.0	3.5	5.0	2.5	---	---	9.0	8.0
31	9.0	6.0	---	---	5.0	3.0	5.0	3.0	---	---	9.5	8.0
MONTH	17.5	6.0	10.0	1.0	5.5	2.5	5.5	2.5	5.5	2.0	9.5	3.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.0	15.5	13.0	21.0	16.0	19.5	14.0	24.0	15.5	20.5	14.0
2	11.5	8.0	16.5	12.5	22.5	16.0	20.5	14.0	23.0	15.5	---	---
3	12.0	9.0	17.0	12.5	23.0	16.0	20.0	14.5	23.5	15.0	---	---
4	12.0	9.5	17.0	13.0	23.0	16.0	21.0	14.5	24.0	15.0	---	---
5	11.5	9.5	17.5	13.0	23.0	16.0	21.0	14.0	24.0	15.0	---	---
6	11.0	9.5	17.5	13.5	22.5	16.0	19.5	14.0	23.5	15.0	---	---
7	12.0	9.0	19.0	14.0	22.5	16.0	22.0	14.0	23.5	15.0	---	---
8	12.0	9.5	18.5	14.0	23.0	16.0	22.0	14.0	24.0	15.5	---	---
9	12.5	10.0	18.0	14.0	23.0	16.0	22.0	14.0	24.5	15.5	---	---
10	12.0	10.5	19.0	13.5	22.0	16.0	22.0	14.5	23.0	15.5	---	---
11	13.0	10.0	19.0	14.0	23.0	16.5	21.0	15.0	24.0	16.0	---	---
12	10.5	10.0	18.5	14.0	20.0	15.0	19.5	15.5	23.5	17.0	---	---
13	12.0	9.5	19.0	14.5	20.5	14.0	22.0	15.5	22.5	16.5	---	---
14	12.0	10.0	19.5	14.5	17.5	14.5	22.0	16.0	22.5	17.0	---	---
15	12.0	10.0	20.0	14.5	17.0	14.0	22.5	16.0	22.0	17.5	---	---
16	12.0	10.0	20.0	14.5	19.0	14.0	20.5	16.5	23.0	17.0	---	---
17	13.0	10.5	19.5	15.0	18.5	14.0	21.5	16.5	23.0	16.5	---	---
18	12.5	10.5	19.5	14.5	18.5	14.0	22.0	16.0	23.0	16.5	---	---
19	13.0	10.0	19.0	14.5	19.0	14.0	22.5	15.5	23.0	16.0	---	---
20	13.0	10.5	18.5	14.5	20.0	14.0	22.0	15.5	23.0	16.0	---	---
21	14.5	10.5	19.5	14.0	20.5	14.5	23.0	15.5	22.0	15.5	---	---
22	14.0	11.0	20.0	13.5	21.0	14.5	24.5	14.5	22.0	15.0	---	---
23	14.0	11.0	20.0	14.0	20.0	15.0	23.5	9.0	22.0	14.0	---	---
24	14.0	10.5	19.5	14.0	20.0	15.5	23.0	16.0	20.0	14.0	---	---
25	15.0	11.0	19.5	14.5	18.5	15.0	22.5	16.0	21.5	13.5	---	---
26	15.0	12.0	20.5	15.0	22.0	15.0	23.0	15.5	21.5	13.5	---	---
27	16.0	12.0	21.0	15.0	21.5	15.0	23.5	16.0	21.5	13.5	---	---
28	16.5	12.5	20.0	15.0	18.5	16.0	24.0	16.0	21.0	14.0	---	---
29	18.0	13.0	21.5	15.0	17.5	15.0	24.0	16.0	21.0	15.0	---	---
30	17.0	13.5	21.0	15.5	18.5	14.5	24.0	16.0	20.0	14.5	---	---
31	---	---	22.0	16.0	---	---	23.5	15.5	20.5	14.5	---	---
MONTH	18.0	8.0	22.0	12.5	23.0	14.0	24.5	9.0	24.5	13.5	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

317

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 mi².

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."

GAGE.--Nonrecording gage read five times weekly. Datum of gage is sea level (levels by U.S. Bureau of Reclamation).

REVISED RECORDS.--WDR CA-76-3: 1975. WDR CA-79-3: Drainage area.

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Jan. 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.

COOPERATION.--Gage readings and capacity table were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 32,269 acre-ft, June 1, 1973, elevation, 5,744.33 ft; minimum since reservoir first filled, 66 acre-ft, Oct. 10-12, 1983, elevation, 5,635.75 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents observed, 10,216 acre-ft, Nov. 12, elevation, 5,704.82 ft; minimum observed, 9,595 acre-ft, Aug. 11-13, elevation, 5,703.00 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	5,680	3,791	5,720	16,643
5,640	143	5,690	5,901	5,730	22,220
5,650	491	5,700	8,636	5,740	28,949
5,660	1,148	5,710	12,147	5,750	37,046
5,670	2,230				

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9784	10105	---	---	---	---	9987	9811	---	9821	---	9655
2	9790	---	9831	9703	---	9706	9991	---	9764	9831	---	9655
3	9790	---	9845	9710	9872	9716	9939	---	9764	---	9662	9662
4	9787	10112	9824	---	9868	9737	---	9693	9757	---	9649	9662
5	---	---	9804	---	9872	9764	---	9710	9744	---	9636	---
6	---	10126	9784	9771	9865	9811	9737	9757	---	9824	9629	---
7	9771	---	---	9787	9865	---	9652	9767	---	9817	9622	---
8	9764	10119	---	9797	---	---	9676	9777	9720	9811	---	9662
9	9757	---	9831	9811	---	9655	9716	---	9706	9800	---	9662
10	9750	---	9838	9824	9885	9649	9747	---	9703	9790	9598	9662
11	9747	---	9851	---	9905	9649	---	9676	9716	---	9595	9669
12	---	10216	9865	---	9912	9676	---	9655	9716	---	9595	---
13	---	10167	9872	9862	9918	9689	9872	9682	---	9784	9595	---
14	9750	10098	---	9875	9905	---	9912	9723	---	9790	9642	9669
15	9754	10022	---	9885	---	---	9885	9744	9737	9790	---	9669
16	9757	---	9898	9898	---	9757	9814	---	9764	9790	---	9669
17	9750	---	9918	9912	---	9750	9747	---	9777	9794	9655	9669
18	9750	9872	9918	---	9872	9730	---	9757	9787	---	9655	9682
19	---	9797	9918	---	9858	9703	---	9747	9797	---	9655	---
20	---	9744	9901	---	9888	9703	10036	9727	---	9771	9655	---
21	9757	9787	---	9946	10001	---	9974	9706	---	9761	9652	9696
22	9757	9824	---	9932	---	---	9905	9676	9807	9750	---	9703
23	9757	---	9855	9901	---	9730	9790	---	9807	9744	---	9703
24	9764	---	9838	9878	9797	9737	9797	---	9807	9737	9642	9703
25	9767	9784	---	---	9784	9740	---	9730	9804	---	9642	9703
26	---	9757	9804	---	9777	9764	---	9767	9804	---	9642	---
27	---	9733	9790	9885	9787	9794	9851	9790	---	9720	9642	---
28	10085	---	---	9878	9811	9824	9851	9817	---	9716	9642	9710
29	10098	---	---	9872	---	9872	9865	9834	9787	9706	---	9716
30	10102	---	9757	9865	---	9946	9905	---	9797	9703	---	9716
31	10105	---	9744	9878	---	9960	---	---	---	9689	9649	---

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,602.31 ft above sea level (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.--No estimated daily discharges. Records good. Flow regulated by Prosser Creek Reservoir (station 10340300) since Jan. 30, 1963.

EXTREMES FOR PERIOD OF RECORD.--Water years 1943-63, prior to construction of Prosser Creek Dam, maximum discharge, 4,560 ft³/s, Dec. 23, 1955, gage height, 10.13 ft, present datum, from rating curve extended above 910 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 11.0 ft from floodmarks, present datum, Nov. 20, 1950; minimum discharge, 0.4 ft³/s, July 18, 1961, result of work on dam upstream. Maximum discharge since construction of Prosser Creek Dam in 1963, 1,790 ft³/s, Feb. 20-22, 1986, gage height, 6.66 ft, from rating curve extended above 880 ft³/s on basis of valve setting at Prosser Creek Dam; minimum daily, 0.02 ft³/s, Jan. 2, 1975, result of temporary closing of Prosser Creek Dam for spillway maintenance.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft³/s, Apr. 5, gage height, 3.48 ft; minimum daily, 1.9 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	9.9	9.0	20	18	79	129	131	44	9.9	6.1	2.1
2	4.4	9.4	9.0	14	18	59	148	110	36	9.9	6.1	1.9
3	7.9	9.4	18	8.4	18	50	163	110	36	9.9	6.0	1.9
4	7.9	9.4	22	8.4	18	50	164	97	36	9.9	5.9	1.9
5	7.9	9.4	22	8.7	18	54	164	87	32	9.9	5.3	1.9
6	7.9	13	14	9.0	18	71	145	109	29	9.9	4.7	1.9
7	7.9	16	9.0	9.0	18	81	101	126	29	9.9	4.7	1.9
8	7.9	16	9.0	9.0	18	81	84	124	29	9.9	4.7	2.0
9	7.9	16	9.0	9.8	18	64	88	119	23	9.9	4.9	2.1
10	7.0	16	9.0	10	18	53	88	119	13	8.8	5.1	2.1
11	5.2	16	9.0	11	18	51	88	105	12	7.4	3.7	2.1
12	4.2	28	9.0	15	23	55	88	79	12	7.4	1.9	2.1
13	4.2	45	9.0	14	31	59	99	70	12	7.8	3.5	2.0
14	4.2	45	9.0	14	32	60	117	72	12	7.9	3.0	1.9
15	4.8	45	9.0	16	32	55	124	71	11	7.9	2.7	1.9
16	5.3	45	9.5	16	32	57	129	71	11	7.9	2.6	1.9
17	5.3	46	14	16	32	63	117	71	11	7.9	2.5	2.2
18	5.2	46	20	15	33	62	110	71	11	7.9	2.6	2.2
19	4.9	46	20	15	34	58	110	71	11	7.4	2.6	1.9
20	4.9	19	20	15	36	56	131	67	10	7.4	2.5	1.9
21	4.3	9.9	20	26	88	57	147	64	10	7.4	2.6	1.9
22	3.8	14	21	33	126	58	147	52	9.9	6.4	2.6	1.9
23	3.8	30	21	33	117	59	110	40	9.9	5.5	2.5	1.9
24	3.8	31	21	28	83	58	92	40	9.9	5.6	2.3	1.9
25	4.1	31	22	19	63	57	102	39	9.9	5.8	2.5	1.9
26	6.0	31	21	18	61	53	102	39	9.9	6.3	2.4	1.9
27	4.9	15	20	17	59	62	116	39	9.9	6.5	2.6	1.9
28	7.8	9.0	20	18	75	67	126	39	9.9	6.5	2.5	1.9
29	9.9	9.0	20	18	82	69	132	48	9.9	6.1	2.4	1.9
30	9.9	9.0	20	14	---	96	153	54	9.9	6.1	2.6	1.9
31	9.9	---	20	15	---	114	---	54	---	6.2	2.6	---
TOTAL	185.6	694.4	484.5	492.3	1237	1968	3614	2388	519.1	243.2	108.7	58.8
MEAN	5.99	23.1	15.6	15.9	42.7	63.5	120	77.0	17.3	7.85	3.51	1.96
MAX	9.9	46	22	33	126	114	164	131	44	9.9	6.1	2.2
MIN	2.5	9.0	9.0	8.4	18	50	84	39	9.9	5.5	1.9	1.9
AC-FT	368	1380	961	976	2450	3900	7170	4740	1030	482	216	117

PYRAMID AND WINNEMUCCA LAKES BASIN

319

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
LOWEST ANNUAL MEAN	38.1
HIGHEST DAILY MEAN	3490
LOWEST DAILY MEAN	2.7
ANNUAL SEVEN-DAY MINIMUM	3.1
INSTANTANEOUS PEAK FLOW	4560
INSTANTANEOUS PEAK STAGE	11.00
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 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	103	44.6	60.0	69.6	74.3	106	122	200	105	49.2	36.8	114
MAX	282	214	361	321	397	371	372	545	494	167	117	477
(WY)	1983	1982	1965	1970	1986	1986	1969	1983	1983	1985	1970	1983
MIN	5.41	6.84	5.32	7.96	17.5	27.1	21.7	17.2	8.39	6.33	3.51	1.96
(WY)	1989	1989	1989	1989	1991	1977	1977	1985	1966	1966	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1964 - 1992

ANNUAL TOTAL	15084.9	11993.6	
ANNUAL MEAN	41.3	32.8	90.5
ANNUAL MEAN, ADJUSTED a	41.3	32.7	
HIGHEST ANNUAL MEAN			214
LOWEST ANNUAL MEAN			24.4
HIGHEST DAILY MEAN	183	May 25	164
LOWEST DAILY MEAN	2.5	Oct 1	1.9
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 25	1.9
INSTANTANEOUS PEAK FLOW			166
INSTANTANEOUS PEAK STAGE			3.48
ANNUAL RUNOFF (AC-FT)	29920	23790	65540
10 PERCENT EXCEEDS	119	98	218
50 PERCENT EXCEEDS	20	15	43
90 PERCENT EXCEEDS	5.2	2.5	9.0

a Adjusted for change in contents in Prosser Creek Reservoir.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (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.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,400 acre-ft, June 7-13, 1989, elevation, 6,949.19 ft; minimum, 4,750 acre-ft, Nov. 10, 11, 1988, elevation, 6,929.39 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 16,700 acre-ft, May 8, elevation, 6,948.10 ft; minimum, 7,840 acre-ft, Sept. 25, 28-30, elevation, 6,934.55 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Sierra Pacific Power Co., dated Nov. 5, 1941)

6,921	0	6,940	11,240
6,925	2,220	6,945	14,530
6,930	5,110	6,950	18,000
6,935	8,110		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13500	13200	13400	13500	13600	14200	14800	16500	16200	15500	13200	9310
2	13500	13200	13400	13500	13600	14200	14800	16600	16200	15400	13100	9190
3	13400	13200	13400	13500	13600	14200	14900	16600	16200	15400	12900	9090
4	13400	13200	13400	13500	13600	14200	14900	16600	16200	15300	12800	8990
5	13400	13200	13400	13600	13600	14300	14900	16600	16100	15200	12600	8870
6	13400	13200	13400	13600	13600	14300	15000	16600	16100	15100	12500	8770
7	13400	13200	13400	13600	13600	14300	15000	16600	16100	15100	12300	8670
8	13400	13300	13400	13600	13700	14300	15100	16700	16100	15000	12200	8570
9	13400	13300	13400	13600	13700	14300	15100	16600	16100	14900	12000	8470
10	13300	13300	13400	13600	13700	14300	15100	16600	16100	14900	11900	8390
11	13300	13300	13400	13600	13700	14300	15200	16600	16000	14800	11800	8250
12	13300	13300	13400	13600	13800	14400	15300	16600	16000	14800	11600	8160
13	13300	13300	13400	13600	13800	14400	15300	16600	16000	14800	11500	8060
14	13300	13200	13400	13600	13800	14400	15400	16600	16000	14800	11400	7970
15	13300	13200	13400	13600	13900	14400	15400	16600	16000	14800	11200	7940
16	13300	13200	13400	13600	13900	14400	15400	16500	16100	14800	11100	7930
17	13200	13400	13400	13600	13900	14400	15600	16500	16100	14800	11000	7930
18	13200	13400	13500	13600	13900	14400	15700	16400	16100	14700	10800	7930
19	13200	13400	13400	13600	14000	14500	15700	16400	16100	14700	10700	7930
20	13200	13400	13500	13600	14100	14500	15800	16300	16100	14700	10600	7920
21	13200	13400	13500	13600	14100	14500	15900	16300	16000	14600	10400	7920
22	13200	13400	13500	13600	14100	14500	15900	16200	16000	14500	10300	7950
23	13100	13400	13500	13600	14100	14500	16000	16200	16000	14400	10200	7890
24	13100	13400	13500	13600	14100	14500	16000	16200	15900	14300	10200	7870
25	13200	13400	13500	13600	14100	14500	16100	16200	15900	14200	10100	7840
26	13300	13400	13500	13600	14100	14600	16200	16200	15800	14100	9960	7860
27	13300	13400	13500	13600	14200	14600	16300	16200	15700	13900	9840	7850
28	13300	13400	13500	13600	14200	14600	16400	16200	15700	13800	9730	7840
29	13300	13400	13500	13600	14200	14600	16500	16200	15600	13700	9630	7840
30	13200	13400	13500	13600	---	14700	16500	16200	15500	13500	9520	7840
31	13200	---	13500	13600	---	14700	---	16200	---	13400	9420	---
MAX	13500	13400	13500	13600	14200	14700	16500	16700	16200	15500	13200	9310
MIN	13100	13200	13400	13500	13600	14200	14800	16200	15500	13400	9420	7840
a	6943.05	6943.27	6943.49	6943.59	6944.49	6945.27	6947.85	6947.47	6946.48	6943.28	6937.12	6934.55
b	-300	+200	+100	+100	+600	+500	+1800	-300	-700	-2100	-3980	-1580

CAL YR 1991 MAX 16400 MIN 13100 b -700
WTR YR 1992 MAX 16700 MIN 7840 b -5660

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

321

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 mi².

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 sea level, 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.--No estimated daily discharges. Records good except for winter months, which are poor. Flow regulated by Independence Lake (station 10342900) since 1939.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 291 ft³/s, Dec. 20, 1981, gage height, 6.12 ft; no flow Sept. 28 to Nov. 10, 1905, June 1, 1906.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80 ft³/s, July 29, 30, gage height, 3.65 ft; minimum daily, 0.19 ft³/s, Sept. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	3.4	2.6	3.0	2.4	2.7	3.0	12	8.6	36	79	57
2	5.9	3.7	2.9	3.0	2.2	2.6	3.3	14	7.1	36	78	57
3	6.1	3.7	3.0	3.0	2.1	2.7	3.3	16	6.8	36	78	56
4	6.1	3.7	2.6	3.1	2.1	2.6	3.0	25	14	36	77	56
5	5.1	3.7	2.6	3.3	2.1	2.3	3.0	35	16	35	77	55
6	5.3	4.0	2.6	3.4	2.1	2.4	3.0	36	11	35	76	55
7	5.2	4.1	2.5	3.7	2.1	2.4	3.1	37	6.9	35	76	54
8	5.0	4.0	2.6	3.7	2.1	2.4	3.0	39	3.7	35	75	54
9	5.1	4.1	2.6	3.7	1.9	2.4	2.7	39	2.8	35	75	53
10	5.0	3.6	2.6	3.9	1.9	2.4	2.6	38	2.0	35	74	53
11	5.0	3.4	2.6	4.1	1.9	2.5	2.6	36	1.7	21	74	52
12	5.1	3.3	2.6	4.2	1.9	2.6	3.1	34	1.4	12	73	52
13	5.1	3.1	2.8	3.7	2.1	2.6	3.0	33	1.3	12	73	51
14	5.5	2.9	3.0	3.3	2.1	2.6	2.7	33	1.1	11	73	44
15	4.6	2.8	3.0	2.6	2.1	2.6	2.6	32	1.1	11	73	11
16	3.7	2.9	3.3	2.4	2.1	2.5	2.3	36	1.0	11	72	1.6
17	3.7	2.7	3.1	2.4	2.4	2.6	2.7	44	.94	11	71	.85
18	3.7	2.6	3.1	2.4	2.6	2.6	2.4	46	.94	11	71	.69
19	3.7	2.5	3.1	2.4	2.9	2.6	2.3	50	.98	11	70	.43
20	3.7	2.5	3.3	2.6	3.0	2.6	2.4	49	7.4	11	62	.29
21	3.5	2.5	3.3	2.6	3.0	2.6	2.5	40	14	24	48	.24
22	3.0	2.6	3.3	2.6	3.0	2.6	2.4	34	13	45	47	.22
23	3.0	2.5	3.3	2.4	3.0	2.6	2.4	33	19	61	47	.20
24	3.0	2.5	3.3	2.5	2.9	2.6	2.4	24	37	61	47	.19
25	3.2	2.4	3.3	2.4	2.9	2.6	2.4	14	37	60	51	6.2
26	3.2	2.4	3.3	2.4	3.0	2.5	2.3	4.9	36	60	60	7.6
27	3.0	2.4	3.3	2.4	2.9	2.6	2.3	3.2	36	59	59	1.5
28	3.0	2.4	3.3	2.4	3.0	2.5	2.4	3.0	36	59	59	1.2
29	2.8	2.6	3.3	2.4	3.0	2.6	9.0	3.0	36	68	58	1.0
30	3.3	2.6	3.0	2.4	---	2.6	11	2.9	36	80	58	.90
31	3.4	---	3.0	2.4	---	2.7	---	4.2	---	79	58	---
TOTAL	133.0	91.6	92.2	90.8	70.8	79.2	95.2	850.2	396.76	1132	2069	783.11
MEAN	4.29	3.05	2.97	2.93	2.44	2.55	3.17	27.4	13.2	36.5	66.7	26.1
MAX	6.1	4.1	3.3	4.2	3.0	2.7	11	50	37	80	79	57
MIN	2.8	2.4	2.5	2.4	1.9	2.3	2.3	2.9	.94	11	47	.19
AC-FT	264	182	183	180	140	157	189	1690	787	2250	4100	1550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	16.0	24.1	11.5	8.23	11.0	13.1	16.9	39.0	55.9	25.9	21.5	22.6
MAX	45.8	97.6	58.2	25.1	58.0	79.2	72.9	112	188	89.2	114	133
(WY)	1976	1984	1982	1982	1986	1986	1986	1982	1983	1983	1988	1973
MIN	.47	1.36	1.39	1.47	1.07	1.45	1.50	1.51	2.09	1.78	2.05	.58
(WY)	1980	1989	1977	1977	1974	1977	1977	1977	1977	1977	1976	1979

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1968 - 1992

ANNUAL TOTAL	4505.0	5883.87	
ANNUAL MEAN	12.3	16.1	22.1
HIGHEST ANNUAL MEAN			46.7
LOWEST ANNUAL MEAN			7.63
HIGHEST DAILY MEAN	64	May 4	80
LOWEST DAILY MEAN	1.1	Feb 6	.19
ANNUAL SEVEN-DAY MINIMUM	1.1	Feb 5	.32
INSTANTANEOUS PEAK FLOW			80
INSTANTANEOUS PEAK STAGE			3.65
ANNUAL RUNOFF (AC-FT)	8940	11670	16030
10 PERCENT EXCEEDS	55	57	61
50 PERCENT EXCEEDS	3.0	3.3	9.8
90 PERCENT EXCEEDS	1.4	2.1	2.0

PYRAMID AND WINNEMUCCA LAKES BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA
(Hydrologic bench-mark 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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,320 ft above sea level, from topographic map. Prior to Dec. 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

REMARKS.--Records excellent. No storage or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 765 ft³/s, Feb. 1, 1963, gage height, 4.64 ft, from floodmarks, from rating curve extended above 160 ft³/s on basis of slope-area measurement at gage height 4.28 ft; minimum, 0.6 ft³/s, Aug. 8, 1960, Aug. 7, 1961, result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 26	0945	*18	*2.15				
Minimum daily, 1.2 ft ³ /s, many days.							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.0	2.2	2.2	2.3	4.4	10	5.8	2.1	1.9	1.2	1.3
2	1.5	2.0	2.2	e2.2	2.3	4.2	10	5.4	2.0	1.8	1.2	1.3
3	1.4	2.0	2.2	2.2	2.3	4.4	11	5.1	1.9	1.6	1.2	1.3
4	1.4	2.0	2.1	2.2	2.2	4.5	11	4.9	1.8	1.6	1.2	1.3
5	1.4	2.0	2.1	2.3	2.2	4.4	10	4.7	1.8	1.5	1.2	1.3
6	1.4	2.0	2.2	2.2	2.2	4.3	9.3	4.6	1.8	1.5	1.2	1.3
7	1.4	2.0	2.2	2.2	2.2	3.9	9.2	4.8	1.8	1.5	1.2	1.3
8	1.4	2.0	2.2	2.2	2.3	3.8	9.5	4.6	1.7	1.5	1.2	1.3
9	1.4	2.9	2.2	2.2	2.4	3.8	9.5	4.3	1.7	1.4	1.2	1.3
10	1.4	2.4	2.2	2.2	2.4	3.8	9.6	3.9	1.7	1.4	1.2	1.3
11	1.4	2.2	2.2	2.2	2.4	4.0	9.8	3.6	1.7	1.4	1.3	1.3
12	1.5	2.1	2.2	2.2	2.4	4.3	11	3.6	1.7	1.5	1.3	1.3
13	1.5	2.1	2.1	2.2	2.4	4.8	12	3.5	1.8	1.6	1.2	1.3
14	1.5	2.1	2.1	2.2	2.4	5.2	12	3.5	1.9	1.5	1.2	1.3
15	1.5	2.1	2.1	2.2	2.5	4.8	11	3.2	2.1	1.5	1.3	1.3
16	1.5	2.0	2.1	2.2	2.5	4.3	9.9	3.5	2.1	1.5	1.3	1.3
17	1.5	e2.1	2.2	2.2	2.4	4.2	12	3.7	2.0	1.5	1.2	1.3
18	1.5	e2.1	e2.3	2.2	2.4	4.2	11	3.1	2.0	1.4	1.2	1.4
19	1.5	e2.1	e2.3	2.2	4.1	4.2	10	3.0	1.9	1.4	1.2	1.3
20	1.5	3.2	e2.3	2.2	9.4	4.4	9.8	3.0	1.7	1.3	1.2	1.3
21	1.5	3.2	e2.3	2.2	7.5	4.9	9.7	2.8	1.6	1.3	1.2	1.3
22	1.5	2.6	2.2	2.2	7.2	5.3	8.9	2.7	1.6	1.3	1.2	1.3
23	1.6	2.4	2.2	2.2	5.3	5.1	8.1	2.5	1.5	1.3	1.2	1.3
24	1.6	2.4	2.2	2.2	4.4	5.1	7.8	2.4	1.8	1.4	1.3	1.3
25	2.2	2.4	2.2	2.2	4.2	5.6	7.6	2.3	1.8	1.3	1.2	1.3
26	11	2.4	2.2	2.2	4.4	6.1	7.5	2.3	1.6	1.2	1.2	1.3
27	3.1	3.1	2.2	2.2	4.5	6.7	7.1	2.3	1.5	1.2	1.2	1.3
28	2.4	2.7	2.2	2.2	4.7	7.5	6.9	2.3	1.6	1.2	1.2	1.3
29	2.3	2.4	2.3	2.3	4.5	8.5	6.9	2.2	1.9	1.2	1.3	1.3
30	2.1	2.2	2.2	2.2	---	9.0	6.3	2.2	2.4	1.2	1.4	1.3
31	2.0	---	2.2	2.2	---	9.9	---	2.1	---	1.2	1.4	---
TOTAL	60.4	69.2	68.1	68.4	102.4	159.6	284.4	107.9	54.5	44.1	38.2	39.1
MEAN	1.95	2.31	2.20	2.21	3.53	5.15	9.48	3.48	1.82	1.42	1.23	1.30
MAX	11	3.2	2.3	2.3	9.4	9.9	12	5.8	2.4	1.9	1.4	1.4
MIN	1.4	2.0	2.1	2.2	2.2	3.8	6.3	2.1	1.5	1.2	1.2	1.3
AC-FT	120	137	135	136	203	317	564	214	108	87	76	78

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

323

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1992, BY WATER YEAR (WY)

MEAN	3.59	5.35	7.47	7.31	8.43	10.3	23.8	41.4	24.4	6.95	3.12	2.74
MAX	11.9	27.7	44.0	33.8	51.0	50.1	51.6	117	142	37.4	11.8	7.56
(WY)	1963	1984	1965	1970	1963	1986	1986	1969	1983	1983	1983	1983
MIN	1.71	1.95	2.03	1.81	2.62	2.74	6.13	3.45	1.82	1.42	1.23	1.11
(WY)	1989	1962	1977	1962	1991	1962	1975	1988	1992	1992	1992	1960

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR			FOR 1992 WATER YEAR			WATER YEARS 1954 - 1992		
ANNUAL TOTAL	1604.7			1096.3					
ANNUAL MEAN	4.40			3.00			12.1		
HIGHEST ANNUAL MEAN							30.0		
LOWEST ANNUAL MEAN				2			2.65		
HIGHEST DAILY MEAN	47			12			398		
LOWEST DAILY MEAN	1.3			1.2			1.0		
ANNUAL SEVEN-DAY MINIMUM	1.3			1.2			1.1		
INSTANTANEOUS PEAK FLOW				18			765		
INSTANTANEOUS PEAK STAGE				2.15			4.64		
ANNUAL RUNOFF (AC-FT)	3180			2170			8750		
10 PERCENT EXCEEDS	12			6.9			31		
50 PERCENT EXCEEDS	2.3			2.2			4.4		
90 PERCENT EXCEEDS	1.4			1.3			1.9		

PRECIPITATION RECORDS

PERIOD OF RECORD.--December 1990 to current year.

INSTRUMENTATION.--Recording weighing rain gage since Dec. 1, 1990.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily precipitation, 3.36 in, Mar. 4, 1991; no precipitation for many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily precipitation, 2.04 in, Oct. 26; no precipitation for many days.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.15	.00	.00	.00	.00	.01	.00	.04
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
4	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.36	.11	.61	.00	.00	.00	.01	.00	.00
6	.00	.00	.04	.00	.11	.37	.00	.06	.00	.00	.00	.00
7	.00	.00	.40	.21	.00	.00	.00	.01	.00	.00	.00	.00
8	.00	.13	.00	.00	.06	.00	.00	.01	.01	.00	.00	.00
9	.00	.18	.00	.00	.04	.00	.00	.00	.00	.00	.00	.00
10	.00	.02	.00	.00	.22	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.64	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.49	.00	.65	.00	.00	.06	.00	.00
13	.00	.02	.00	.00	.11	.00	.05	.00	.00	.03	.00	.00
14	.00	.07	.00	.00	.69	.03	.00	.00	.06	.08	.00	.00
15	.00	.00	.00	.00	.44	.14	.00	.00	.09	.03	.00	.00
16	.00	.04	.00	.00	.63	.11	.04	.11	.02	.12	.00	.00
17	.00	1.71	.02	.03	.20	.00	.11	.01	.01	.00	.00	.22
18	.00	.12	.83	.00	.18	.00	.02	.00	.03	.03	.00	.00
19	.00	.15	.03	.00	1.32	.00	.00	.02	.00	.00	.00	.00
20	.03	.33	.00	.00	.26	.00	.00	.01	.00	.00	.00	.00
21	.00	.00	.00	.00	.25	.11	.00	.00	.00	.00	.00	.00
22	.10	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
23	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.22	.00	.00	.00
25	1.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	2.04	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.05	.40	.08	.00	.00	.00	.00	.02	.00	.00	.00	.00
28	.00	.00	.22	.03	.00	.00	.00	.00	.03	.00	.00	.00
29	.00	.04	.61	.00	.00	.00	.00	.00	.51	.00	.09	.00
30	.00	.00	.04	.00	---	.39	.00	.00	.02	.00	.13	.00
31	.07	---	.10	.00	---	.03	---	.00	---	.00	.00	---
TOTAL	3.42	3.24	2.37	0.68	5.90	2.04	0.87	0.25	1.00	0.38	0.22	0.26

CAL YR 1991 TOTAL 33.47
WTR YR 1992 TOTAL 20.63

PYRAMID AND WINNEMUCCA LAKES BASIN

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-75, 1981 to current year.

CHEMICAL DATA: Water years 1968-72, October 1985 to current year.

WATER TEMPERATURE: Water years 1970-74.

SEDIMENT DATA: Water years 1968-75, 1981 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1969 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

		DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS TOTAL (MG/L AS CACO3)	
NOV 1991	14...	1030	2.0	129	8.0	3.0	3.5	600	10.7	101	K5	63	54
FEB 1992	25...	1040	4.1	98	8.0	2.0	5.8	613	11.0	99	K2	K2	43
MAY	05...	1135	4.8	82	8.1	8.5	1.0	612	9.5	101	K2	K2	36
AUG	11...	1025	1.3	149	8.2	10.5	1.4	610	9.0	101	37	69	59
DATE	HARD- NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	
NOV 1991	14...	0	14	4.6	6.1	19	0.4	2.3	83	68	0.10	1.0	<0.10
FEB 1992	25...	0	11	3.8	5.0	19	0.3	1.6	67	55	<0.10	0.80	<0.10
MAY	05...	0	9.2	3.1	4.2	20	0.3	1.3	55	45	0.20	0.50	<0.10
AUG	11...	0	15	5.1	7.3	20	0.4	2.7	95	78	0.10	0.60	<0.10
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	
NOV 1991	14...	31	94	101	0.13	0.004	0.143	0.061	0.073	0.050	<0.20	0.039	0.051
FEB 1992	25...	27	92	--	--	--	--	--	--	--	--	--	
MAY	05...	27	65	73	0.09	0.002	0.005	0.007	0.008	0.007	<0.20	0.011	0.008
AUG	11...	32	110	110	0.15	0.005	0.009	0.014	0.005	0.009	<0.20	0.014	0.016
DATE	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)		
NOV 1991	14...	0.035	0.032	60	23	<3	93	<4	2	<10	<1	<1	
FEB 1992	25...	--	--	--	19	<3	100	<4	2	<10	<1	<1	
MAY	05...	0.007	0.005	50	17	<3	50	<4	2	<10	<1	<1	
AUG	11...	0.012	0.011	<10	27	<3	55	<4	5	<10	<1	<1	

PYRAMID AND WINNEMUCCA LAKES BASIN

325

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

WATER QUALITY DATA, WATER YEAR SEPTEMBER 1991 TO OCTOBER 1992

DATE	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS- SOLVED (UG/L AS U)
NOV 1991 14...	<1.0	150	<6	--	--	--	--	--	--	--	--
FEB 1992 25...	<1.0	120	<6	--	--	--	--	--	--	--	--
MAY 05...	<1.0	110	<6	<0.6	<0.6	1.2	<0.6	1.0	<0.6	0.03	0.28
AUG 11...	<1.0	170	<6	1.2	<0.6	2.4	<0.6	2.0	<0.6	0.04	0.69

K: NON-IDEAL COLONY COUNT

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	SEDI- MENT, SUS- PENDE (MG/L)
MAY										
05...	1105	0.80	0.60	83	8.2	8.5	612	9.3	99	1
05...	1110	0.80	1.80	83	8.2	8.5	612	9.3	99	2
05...	1115	0.80	2.70	83	8.2	8.5	612	9.3	99	3
05...	1120	0.85	4.20	83	8.2	8.5	612	9.3	99	2
05...	1125	0.60	5.70	83	8.2	8.5	612	9.3	99	2
AUG										
11...	1030	0.45	0.60	148	8.3	10.5	610	9.0	101	0
11...	1035	0.55	1.50	149	8.3	10.5	610	9.0	101	0
11...	1040	0.62	2.40	149	8.3	10.5	610	9.0	101	0
11...	1045	0.58	3.60	149	8.3	10.5	610	9.0	101	0
11...	1050	0.55	5.10	149	8.3	10.5	610	9.0	101	0

* Instantaneous discharge at the time of cross-sectional measurement: May 5, 4.8 ft³/s; Aug 11, 1.3 ft³/s.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
26...	1320	11	--	12	0.36
26...	1615	7.7	--	30	0.62
27...	1015	3.0	2.0	4	0.03
NOV					
14...	1030	2.0	3.0	2	0.01
FEB					
20...	0950	9.3	--	85	2.1
20...	1230	9.0	--	11	0.27
20...	1630	9.0	--	8	0.19
25...	1040	4.1	2.0	4	0.04
MAY					
05...	1135	4.8	8.5	2	0.03
AUG					
11...	1025	1.3	10.5	0	0

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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.--Nonrecording gage read five times weekly. Datum of gage is sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by rolled-earth and rockfill dam. Storage began Aug. 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.

COOPERATION.--Records and capacity table were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) 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, Jan. 31, Feb. 1, 1978, elevation, 5,853.60 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents observed, 81,332 acre-ft, May 8, elevation, 5,893.03 ft; minimum observed, 75,922 acre-ft, Sept. 30, elevation, 5,889.95 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	47,204	5,900	94,535	5,930	167,355	5,960	267,386

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80347	79369	---	---	---	---	81099	81278	79830	78787	---	77179
2	80311	---	79016	78646	---	79617	81081	---	---	78805	---	77161
3	80275	---	78981	78558	78033	79688	81081	---	79759	---	78067	77144
4	80222	79299	78946	---	78033	79759	---	81224	79724	---	78015	77092
5	---	---	78928	---	78015	79866	---	81260	79671	---	77963	---
6	---	79263	78928	78558	78033	80044	81099	81260	---	78822	77910	---
7	80062	---	---	78576	78050	---	81027	81278	---	78805	77858	---
8	80008	79228	---	78488	---	---	80955	81332	79529	78805	---	76953
9	79955	---	78857	78471	---	80258	80883	---	79493	78787	---	76953
10	79902	---	78840	78471	78067	80311	80830	---	79405	78787	77736	76936
11	79902	---	78822	---	78085	80347	---	81081	79334	---	77701	76902
12	---	79193	78805	---	78120	80382	---	80973	79228	---	77666	---
13	---	79193	78769	78383	78172	80400	80955	81009	---	78734	77683	---
14	79742	79157	---	78348	78172	---	81045	81009	---	78699	77666	76798
15	79706	79104	---	78330	---	---	80991	80991	79016	78681	---	76798
16	79671	---	78734	78348	---	80579	80865	---	78981	78646	---	76729
17	79600	---	78717	78348	---	80615	80794	---	78963	78594	77631	76694
18	79547	79246	78734	---	78313	80597	---	80901	79016	---	77596	76642
19	---	79193	78752	---	78365	80651	---	80883	78981	---	77544	---
20	---	79193	78717	---	78488	80704	81135	---	80812	---	78453	77492
21	79405	79210	---	78243	78629	---	81099	80740	---	78348	77439	76487
22	79352	79175	---	78225	---	---	81045	80686	78893	78330	---	76435
23	79281	---	78664	78190	---	81063	80955	---	78840	78243	---	76383
24	79210	---	78629	78172	78998	81081	80794	---	78857	78278	77266	76297
25	79157	79157	---	---	79087	81027	---	---	78857	---	77214	76194
26	---	79140	78629	---	79157	80991	---	80329	78840	---	77196	---
27	---	79175	78629	78137	79246	80991	80937	80186	---	78225	77196	---
28	79511	---	---	78120	79334	80955	80991	80044	---	---	77196	76008
29	79511	---	---	78102	---	80937	81081	79919	78805	78190	---	75974
30	79423	---	78646	78085	---	80973	81242	---	78769	---	---	75922
31	---	---	78594	78102	---	81153	---	---	---	78208	77214	---

PYRAMID AND WINNEMUCCA LAKES BASIN

327

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 mi².

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 sea level (U.S. Bureau of Reclamation bench mark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records excellent except for estimated daily discharges, which are 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s, Feb. 1, 1963, gage height, 9.00 ft, from rating curve extended above 1,600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.30 ft³/s, Sept. 16-21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 196 ft³/s, Apr. 17, gage height, 1.41 ft; minimum daily, 14 ft³/s, Oct. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	30	29	27	26	30	146	142	28	33	83	62
2	29	30	29	27	26	30	151	142	28	32	83	62
3	29	30	29	27	29	30	150	142	28	32	83	62
4	29	30	29	27	26	30	151	142	28	32	83	62
5	29	30	29	28	27	31	150	154	27	32	83	62
6	29	30	29	27	26	31	149	159	27	32	83	62
7	29	30	e29	27	27	31	148	162	27	32	83	62
8	29	30	29	e27	27	30	148	181	27	32	83	62
9	26	31	e29	e27	27	30	148	193	27	32	83	62
10	14	30	29	27	27	30	133	193	27	32	83	62
11	18	30	28	e27	28	40	122	172	26	32	84	62
12	29	30	e28	e27	28	44	123	123	27	33	85	62
13	29	30	28	e27	27	46	136	98	27	33	85	62
14	29	30	28	e28	28	46	174	98	27	33	82	47
15	29	30	28	e28	29	46	193	98	28	32	78	30
16	30	30	28	28	28	52	193	81	27	33	78	29
17	30	31	28	28	27	51	177	87	29	31	77	29
18	30	31	29	27	27	49	163	90	28	29	79	29
19	30	30	28	e27	28	36	163	86	28	29	79	29
20	30	31	e28	e26	34	28	179	85	27	29	79	29
21	30	30	e28	26	33	28	189	83	27	29	64	29
22	30	30	28	e26	33	29	189	84	27	39	52	29
23	30	30	28	e26	31	41	189	83	28	46	52	30
24	30	29	e28	e26	30	88	151	83	28	58	52	28
25	31	30	28	26	31	88	119	83	28	59	52	28
26	37	32	27	26	30	87	118	82	30	60	52	28
27	32	32	27	27	30	85	133	81	32	58	52	28
28	31	30	27	26	30	89	147	78	33	58	56	28
29	31	30	28	e26	30	89	147	52	33	60	62	29
30	31	29	27	e26	---	76	142	27	33	60	62	29
31	30	---	27	26	---	90	---	27	---	71	62	---
TOTAL	900	906	874	831	830	1531	4621	3391	847	1233	2254	1314
MEAN	29.0	30.2	28.2	26.8	28.6	49.4	154	109	28.2	39.8	72.7	43.8
MAX	37	32	29	28	34	90	193	193	33	71	85	62
MIN	14	29	27	26	26	28	118	27	26	29	52	28
AC-FT	1790	1800	1730	1650	1650	3040	9170	6730	1680	2450	4470	2610

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

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
LOWEST ANNUAL MEAN	58.9
HIGHEST DAILY MEAN	8810
LOWEST DAILY MEAN	3.0
ANNUAL SEVEN-DAY MINIMUM	4.0
INSTANTANEOUS PEAK FLOW	13300
INSTANTANEOUS PEAK STAGE	9.00
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 1971 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	92.0	46.3	79.1	80.4	68.1	120	288	545	326	155	116	63.0
MAX	503	132	711	349	149	368	923	1214	1733	1301	573	359
(WY)	1974	1975	1984	1984	1975	1983	1986	1985	1983	1983	1975	1971
MIN	15.7	19.7	5.47	16.7	28.6	18.2	30.8	30.6	28.1	24.1	24.8	18.0
(WY)	1978	1983	1980	1980	1992	1980	1988	1988	1988	1981	1981	1983

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1971 - 1992

ANNUAL TOTAL	28799	19532	
ANNUAL MEAN	78.9	53.4	165
ANNUAL MEAN, ADJUSTED a	67.6	47.2	
HIGHEST ANNUAL MEAN			427
LOWEST ANNUAL MEAN			53.4
HIGHEST DAILY MEAN	285	May 9	193
LOWEST DAILY MEAN	14	Oct 10	14
ANNUAL SEVEN-DAY MINIMUM	25	Oct 5	25
INSTANTANEOUS PEAK FLOW			196
INSTANTANEOUS PEAK STAGE			1.41
ANNUAL RUNOFF (AC-FT)	57120	38740	119800
10 PERCENT EXCEEDS	278	133	453
50 PERCENT EXCEEDS	30	30	44
90 PERCENT EXCEEDS	29	27	28

a Adjusted for change in contents in Stampede Reservoir.

PYRAMID AND WINNEMUCCA LAKES BASIN

329

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 mi².

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.--Pressure gage with mercury column read once daily. Datum of gage is sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began Dec. 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.

COOPERATION.--Records and capacity table were provided by U.S. Bureau of Reclamation; not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.--Maximum contents, 41,440 acre-ft, Dec. 23, 1955, elevation, 5,605.55 ft; minimum, 37 acre-ft, Mar. 4-9, 1955, elevation, 5,521.65 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents, 13,104 acre-ft, May 12, elevation, 5,568.80 ft; minimum, 2,447 acre-ft, Aug 1,2, elevation, 5,540.45 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	5,570	13,768
5,545	3,513	5,580	20,002
5,550	4,970	5,590	27,488
5,555	6,725	5,600	36,128
5,560	8,778	5,605	40,868

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5810	7310	7191	6936	6898	7714	6706	11094	5568	2932	2447	2478
2	5863	7350	7151	6917	6936	7797	6782	11320	4970	2955	2447	2478
3	5916	7410	7112	6917	6975	7797	6936	11446	4367	2967	2457	2488
4	5952	7450	7073	6898	6975	7776	7014	11547	3754	2967	2488	2520
5	6005	7511	7034	6898	6975	7756	7191	11573	3062	2955	2509	2563
6	6041	7551	6995	6898	6975	7694	7310	11675	2805	2943	2478	2595
7	6095	7612	6995	6878	6975	7714	7350	11907	2839	2920	2488	2638
8	6149	7673	6975	6878	6995	7673	7290	12220	2828	2908	2488	2671
9	6185	7673	6975	6859	6995	7612	7290	12591	2816	2967	2509	2715
10	6222	7694	6975	6840	6995	7470	7290	12913	2828	3014	2541	2760
11	6277	7714	6956	6840	7014	7370	7230	13049	2816	3050	2573	2794
12	6295	7714	6956	6840	7014	7310	7171	13104	2805	3050	2584	2828
13	6332	7714	6936	6840	7034	7230	7112	12967	2771	3050	2573	2920
14	6369	7694	6936	6840	7034	7171	7290	12778	2715	3074	2573	2990
15	6424	7653	6956	6859	7034	7092	7571	12591	2715	3074	2584	3038
16	6461	7612	6975	6859	7034	7034	7797	12351	2771	3086	2595	3062
17	6517	7592	6995	6859	7034	7014	8005	12063	2828	3050	2638	3086
18	6555	7592	6995	6859	7014	6975	8194	11778	2862	2990	2693	3110
19	6611	7551	7014	6859	6995	6898	8516	11471	2897	2920	2704	3147
20	6668	7531	7034	6859	6995	6782	8734	11144	2897	2851	2704	3171
21	6706	7511	7034	6859	7014	6649	9049	10798	2897	2782	2715	3183
22	6763	7490	7014	6859	7132	6536	9451	10410	2897	2704	2693	3208
23	6802	7450	7014	6859	7250	6424	9680	9982	2897	2671	2671	3220
24	6840	7430	6995	6859	7350	6369	9912	9520	2897	2682	2671	3233
25	6878	7410	6995	6859	7430	6387	9819	9045	2874	2606	2627	3258
26	6975	7390	6975	6859	7490	6369	9889	8581	2862	2563	2573	3270
27	7073	7370	6975	6859	7531	6313	10053	8131	2851	2531	2552	3283
28	7112	7330	6956	6859	7551	6277	10266	7673	2874	2509	2520	3295
29	7171	7290	6956	6859	7633	6277	10530	7210	2885	2499	2499	3333
30	7210	7250	6956	6859	---	6350	10822	6687	2920	2488	2499	3308
31	7270	---	6936	6878	---	6499	---	6131	---	2457	2499	---
MAX	7270	7714	7191	6936	7633	7797	10822	13104	5568	3086	2715	3333
MIN	5810	7250	6936	6840	6898	6277	6706	6131	2715	2457	2447	2478
a	5556.40	5556.35	5555.55	5555.40	5557.30	5554.40	5564.40	5553.40	5542.60	5540.50	5540.70	5544.20
b	+1530	-20	-314	-58	+755	-1134	+4323	-4691	-3211	-463	+42	+809

CAL YR 1991 MAX 27084 MIN 4396 b -2312
WTR YR 1992 MAX 13104 MIN 2447 b -2432

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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 sea level, from topographic map. Jan. 1, 1911, to Sept. 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 except for estimated daily discharges, which are fair. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s, Dec. 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 361 ft³/s, June 4, gage height, 3.05 ft; minimum daily, 0.05 ft³/s, on several days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.5	e2.9	e48	e31	e18	e.05	94	31	331	21	81	59
2	e3.5	e2.9	e48	e31	e15	e40	94	68	333	21	78	50
3	e3.5	e2.9	e48	e31	e23	e50	99	80	339	26	68	40
4	e3.5	e2.9	e48	e31	e28	e50	88	104	350	35	72	35
5	e3.5	e2.9	e48	e31	e28	e70	104	102	266	41	82	35
6	e2.9	e2.9	e40	e31	e28	e55	127	63	10	41	84	35
7	e2.9	e2.9	e35	e31	e28	e60	139	17	28	41	84	35
8	e2.9	e16	e35	e31	e28	e75	145	e.05	34	12	77	35
9	e2.9	e25	e35	e31	e28	e85	139	21	26	2.7	64	34
10	e2.9	e25	e35	e28	e28	e80	138	80	27	10	64	34
11	e2.9	e25	e35	e26	e28	e75	138	118	36	30	76	34
12	e2.9	e25	e35	e26	e28	e85	138	147	39	32	80	19
13	e2.9	e37	e29	e26	e28	e80	73	161	46	32	82	13
14	e2.9	e48	e25	e26	e36	e75	37	168	33	32	78	14
15	e2.9	e48	e25	e26	e40	e68	64	182	9.0	27	70	14
16	e2.9	e48	e25	e26	e40	e62	89	200	e.05	46	54	14
17	e2.9	e48	e25	e26	e40	e68	72	206	7.5	65	53	14
18	e2.9	e48	e25	e26	e40	e75	20	215	12	62	65	8.0
19	e2.9	e48	e25	e26	e40	e82	23	230	21	62	71	14
20	e2.9	e48	e29	e26	e40	e90	24	236	26	63	71	19
21	e2.9	e48	e31	e26	e14	e90	11	249	26	63	71	19
22	e2.9	e48	e31	e26	e.05	e90	9.5	274	27	63	71	19
23	e2.9	e48	e31	e26	e.05	e85	84	292	28	62	56	19
24	e2.9	e48	e31	e26	e.05	e80	121	301	34	70	52	18
25	e2.9	e48	e31	e26	e7.3	e90	96	306	35	75	61	18
26	e2.9	e48	e31	e26	e27	e105	48	306	35	75	61	18
27	e2.9	e48	e31	e26	e27	e105	25	306	25	72	60	18
28	e2.9	e48	e31	e26	e10	e85	9.2	306	21	65	63	18
29	e2.9	e48	e31	e26	e.05	e65	e.05	306	21	65	62	17
30	e2.9	e48	e31	e22	---	e30	e.05	315	21	72	52	15
31	e2.9	---	e31	e20	---	e10	---	321	---	80	66	---
TOTAL	92.9	989.3	1039	843	697.50	2160.05	2248.80	5711.05	2246.55	1463.7	2129	734.0
MEAN	3.00	33.0	33.5	27.2	24.1	69.7	75.0	184	74.9	47.2	68.7	24.5
MAX	3.5	48	48	31	40	105	145	321	350	80	84	59
MIN	2.9	2.9	25	20	.05	.05	.05	.05	.05	2.7	52	8.0
AC-FT	184	1960	2060	1670	1380	4280	4460	11330	4460	2900	4220	1460

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

331

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
LOWEST ANNUAL MEAN	94.7
HIGHEST DAILY MEAN	2360
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
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)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
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
LOWEST ANNUAL MEAN	65.8
HIGHEST DAILY MEAN	5520
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	8800
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 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	117	79.8	104	89.6	71.2	121	264	479	299	190	148	105
MAX	441	327	568	410	256	470	975	1148	1788	1131	585	418
(WY)	1972	1984	1984	1984	1975	1983	1986	1985	1983	1983	1975	1971
MIN	.035	.020	.11	.10	4.19	.54	.39	.31	2.63	.75	13.6	.55
(WY)	1991	1991	1978	1978	1978	1979	1988	1988	1977	1981	1984	1970

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1970 - 1992

ANNUAL TOTAL	29607.30	20354.85	
ANNUAL MEAN	81.1	55.6	173
HIGHEST ANNUAL MEAN			470
LOWEST ANNUAL MEAN			55.6
HIGHEST DAILY MEAN	451	Jul 18	2240
LOWEST DAILY MEAN	.05	Mar 5	.02
ANNUAL SEVEN-DAY MINIMUM	.05	May 23	.02
INSTANTANEOUS PEAK FLOW			361
INSTANTANEOUS PEAK STAGE			3.05
ANNUAL RUNOFF (AC-FT)	58730	40370	125300
10 PERCENT EXCEEDS	252	104	432
50 PERCENT EXCEEDS	35	34	78
90 PERCENT EXCEEDS	2.0	2.9	.56

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, and 3.5 mi upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi².

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.

WATER TEMPERATURE: Water years 1964-81.

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 sea level (U.S. Bureau of Reclamation bench mark). See WSP 2127 for history of changes prior to August 26, 1957.

REMARKS.--No estimated daily discharges. 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s, November 21, 1950, gage height, 14.5 ft, present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 28 ft³/s, December 18, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 749 ft³/s, April 18, gage height, 3.62 ft; minimum daily, 54 ft³/s, October 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	74	131	119	93	276	452	463	441	139	108	108
2	67	73	137	112	88	272	512	446	433	131	108	93
3	70	73	137	106	91	279	532	451	432	129	95	91
4	70	72	146	108	104	288	554	461	439	128	95	85
5	70	73	144	108	105	306	522	468	405	126	112	85
6	69	75	136	107	109	324	518	464	106	136	118	84
7	67	82	112	108	109	313	475	470	112	136	115	83
8	66	92	106	99	111	332	476	436	123	154	115	83
9	66	123	102	104	116	341	481	426	115	132	105	83
10	64	136	113	107	115	332	477	431	84	136	98	82
11	63	120	104	97	121	310	482	455	92	136	109	108
12	61	114	102	95	128	318	495	452	95	146	114	135
13	62	158	99	105	145	340	501	450	105	161	127	127
14	59	177	92	101	147	341	450	465	103	126	131	128
15	58	166	91	98	162	329	466	456	84	85	114	133
16	59	161	90	99	167	315	479	462	79	80	98	125
17	59	190	91	100	165	321	594	462	82	106	89	120
18	58	195	111	97	160	326	580	460	88	101	95	129
19	57	182	111	95	168	326	448	465	86	98	108	117
20	57	167	111	96	279	330	453	463	92	94	111	116
21	60	151	131	107	392	331	481	452	86	100	111	107
22	56	146	124	111	463	351	457	457	82	98	111	98
23	58	163	118	112	392	340	458	457	80	95	102	77
24	56	165	116	117	303	327	483	457	89	100	90	73
25	54	165	119	107	253	328	477	463	89	110	98	77
26	212	165	120	106	281	339	464	454	126	109	100	77
27	171	163	118	104	282	349	447	447	131	106	99	75
28	97	160	120	108	288	356	461	443	123	95	100	72
29	86	142	122	104	285	342	498	439	125	93	112	71
30	78	135	124	102	---	337	532	444	137	97	91	68
31	76	---	118	93	---	349	---	444	---	109	114	---
TOTAL	2274	4058	3596	3232	5622	10068	14705	14063	4664	3592	3293	2910
MEAN	73.4	135	116	104	194	325	490	454	155	116	106	97.0
MAX	212	195	146	119	463	356	594	470	441	161	131	135
MIN	54	72	90	93	88	272	447	426	79	80	89	68
AC-FT	4510	8050	7130	6410	11150	19970	29170	27890	9250	7120	6530	5770

PYRAMID AND WINNEMUCCA LAKES BASIN

333

10346000 TRUCKEE RIVER AT FARAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	391	435	536	556	632	770	1273	1705	1248	645	509	464
MAX	982	2469	3596	3053	2394	4073	3887	5674	5214	2921	1084	1482
(WY)	1972	1984	1984	1984	1986	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 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1909 - 1992
ANNUAL TOTAL	94493	72077	
ANNUAL MEAN	259	197	756
HIGHEST ANNUAL MEAN			2443
LOWEST ANNUAL MEAN			184
HIGHEST DAILY MEAN	1090	Mar 4	13400
LOWEST DAILY MEAN	54	Oct 25	37
ANNUAL SEVEN-DAY MINIMUM	57	Oct 19	40
INSTANTANEOUS PEAK FLOW		749	17500
INSTANTANEOUS PEAK STAGE		3.62	14.50
ANNUAL RUNOFF (AC-FT)	187400	143000	547600
10 PERCENT EXCEEDS	521	459	1660
50 PERCENT EXCEEDS	142	118	504
90 PERCENT EXCEEDS	72	76	213

PYRAMID AND WINEMUCCA LAKES BASIN

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--Lat 39°31'53", long 119°47'07", in NW 1/4 NW 1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, 400 ft downstream from Kietzke Lane bridge, 0.5 mi downstream from Scott Island, 1.5 mi east of Reno Post Office, 5 mi upstream from Steamboat Creek, and at mi 59.07, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 mi², approximately.

WATER-DISCHARGE RECORDS

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. Monthly discharge only for some periods, published in WSP 1314 and 1734.

GAGE.--Water-stage recorder. Datum of gage is 4,431.97 ft above sea level (levels by U. S. Army Corps of Engineers). July 1906 to September 1946, nonrecording gage at site 1 mi upstream at different datum.

REMARKS.--Records good except for days below 25 ft³/s, which are fair. 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 and Independence Lakes, and by several powerplants. Many diversions above station. Instantaneous low flow occurred several days in September 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 488 ft³/s, February 22, gage height, 4.01 ft; minimum daily, 10 ft³/s, August 19, September 6, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	46	141	125	106	273	304	224	192	72	27	39
2	22	47	149	123	105	266	414	176	187	70	25	34
3	18	47	146	115	99	255	387	179	166	59	32	23
4	20	43	154	114	98	260	436	185	167	56	26	16
5	20	43	150	118	109	257	383	208	178	53	25	12
6	20	42	149	114	123	298	408	190	77	59	32	10
7	25	40	129	113	116	253	340	202	35	68	30	21
8	27	46	122	112	114	276	337	186	53	70	28	15
9	24	70	118	107	121	271	332	172	61	60	25	11
10	24	91	122	115	120	286	283	174	45	56	29	11
11	21	91	119	111	121	257	256	197	19	57	20	10
12	21	80	114	105	134	246	260	176	23	65	24	26
13	20	86	114	105	138	258	269	170	36	82	28	48
14	22	136	106	111	141	244	215	180	53	88	43	52
15	20	132	105	110	149	243	210	184	69	134	82	57
16	23	125	103	111	150	227	236	184	37	87	46	56
17	20	166	102	105	150	223	264	197	32	80	40	54
18	18	174	109	104	149	230	380	201	40	90	17	54
19	22	151	122	102	155	242	209	202	33	66	10	55
20	21	148	116	107	208	249	220	198	29	59	18	51
21	19	127	129	116	345	250	221	179	18	48	19	53
22	21	127	138	121	403	288	199	189	24	33	19	50
23	22	121	132	120	397	277	188	188	18	28	17	44
24	23	129	129	127	328	249	208	185	22	22	30	28
25	22	128	128	121	250	252	207	207	27	25	32	26
26	58	133	127	116	263	252	209	224	26	33	16	28
27	216	145	128	116	278	243	187	191	60	38	19	30
28	105	132	127	116	269	245	204	180	55	32	23	28
29	75	128	131	117	269	241	197	183	71	30	24	27
30	61	123	130	115	---	230	278	181	74	28	29	25
31	49	---	129	107	---	269	---	192	---	22	36	---
TOTAL	1100	3097	3918	3519	5408	7910	8241	5884	1927	1770	871	994
MEAN	35.5	103	126	114	186	255	275	190	64.2	57.1	28.1	33.1
MAX	216	174	154	127	403	298	436	224	192	134	82	57
MIN	18	40	102	102	98	223	187	170	18	22	10	10
AC-FT	2180	6140	7770	6980	10730	15690	16350	11670	3820	3510	1730	1970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1992, BY WATER YEAR (WY)

	MEAN	282	440	569	626	712	872	1237	1481	1036	408	244	241
MAX	977	2513	3638	3076	2954	4448	4138	5679	4883	2500	1261	1302	
(WY)	1908	1984	1984	1984	1986	1986	1907	1952	1983	1983	1907	1983	
MIN	31.6	36.1	53.9	64.9	85.5	127	198	95.4	44.7	16.0	10.4	5.03	
(WY)	1932	1933	1933	1933	1933	1933	1977	1934	1931	1931	1931	1926	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1907 - 1992
ANNUAL TOTAL	66204	44639	
ANNUAL MEAN	181	122	681
HIGHEST ANNUAL MEAN			2350
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	1100	Mar 5	16200
LOWEST DAILY MEAN	17	Sep 19	.00
ANNUAL SEVEN-DAY MINIMUM	20	Sep 30	.00
INSTANTANEOUS PEAK FLOW		488	208000
INSTANTANEOUS PEAK STAGE		4.01	13.83
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	131300	88540	493500
10 PERCENT EXCEEDS	381	256	1650
50 PERCENT EXCEEDS	123	113	377
90 PERCENT EXCEEDS	30	22	117

PYRAMID AND WINNEMUCCA LAKES BASIN
10348000 TRUCKEE RIVER AT RENO, NV--Continued

335

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 1989 to current year.

INSTRUMENTATION.--Water temperature recorder since July 1989, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to probes coming out of water.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.5°C, August 1, 1991, June 21, 22, 1992; minimum, freezing point on many days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--Maximum, 27.5°C, June 21, 22; minimum, freezing point, many days during winter months.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.5	13.5	17.0	6.5	2.5	4.5	.0	.0	.0	2.5	1.0	2.0
2	20.5	13.5	17.0	8.0	3.5	6.0	1.5	.0	.5	2.0	.5	1.5
3	20.0	13.0	16.5	9.0	5.5	7.5	2.0	.0	1.0	1.5	.5	1.0
4	19.5	12.5	16.0	9.0	6.0	7.5	2.0	.0	1.0	3.5	1.0	2.0
5	19.5	12.5	16.0	10.0	6.0	8.0	2.5	.0	1.0	3.5	1.5	2.5
6	20.0	13.0	16.0	11.0	7.0	9.0	3.5	1.0	2.5	3.0	1.0	2.0
7	18.0	12.5	15.0	11.0	7.5	9.5	3.5	2.5	3.0	2.5	1.0	2.0
8	18.0	11.5	14.5	10.0	8.0	9.0	3.0	1.0	2.0	2.0	.5	1.0
9	17.5	11.5	14.5	10.0	9.0	9.5	1.5	.0	1.0	1.5	.5	.5
10	17.5	11.0	14.5	10.0	7.0	8.5	1.0	.0	.5	1.0	.5	.5
11	18.0	11.5	14.5	8.5	6.0	7.5	2.0	.0	1.0	1.0	.0	.5
12	18.5	12.5	15.5	8.0	5.5	7.0	1.5	.0	1.0	.5	.0	.5
13	18.0	12.0	15.0	8.0	5.5	6.5	1.5	.0	1.0	1.0	.0	.5
14	17.5	11.0	14.0	6.0	4.0	5.0	1.5	.0	1.0	2.0	.0	.5
15	17.0	10.5	14.0	5.0	3.0	4.0	2.0	.5	1.0	1.0	.0	.5
16	16.5	11.0	13.5	4.0	1.0	3.0	2.0	.5	1.0	1.5	.0	.5
17	16.0	10.5	13.5	6.0	3.5	4.5	1.0	.5	1.0	2.0	1.0	1.5
18	16.5	11.0	13.5	4.0	2.5	3.5	3.5	1.0	2.0	2.5	.0	1.0
19	16.0	10.5	13.0	4.0	1.0	2.5	2.0	.5	1.0	1.5	.0	.5
20	15.0	10.0	12.5	6.0	2.5	4.0	1.0	.5	.5	1.0	.0	.5
21	14.0	8.5	11.5	6.0	4.0	5.0	.5	.5	.5	2.0	.0	.5
22	12.5	9.5	11.0	4.5	2.0	3.5	1.5	.5	1.0	1.5	.0	.5
23	10.5	6.5	8.5	3.5	1.0	2.5	1.5	.5	1.0	1.5	.0	.5
24	10.0	6.0	8.0	5.0	1.5	3.5	1.5	.5	.5	2.5	.0	1.0
25	9.0	6.0	7.5	5.5	2.5	4.0	1.5	.5	1.0	4.5	.0	2.5
26	9.5	7.0	8.0	5.5	3.0	4.5	2.5	.5	1.5	4.5	2.0	3.0
27	7.5	4.5	6.0	5.5	3.0	4.0	3.0	1.0	2.0	4.0	1.0	3.0
28	6.0	2.5	4.5	4.0	1.5	3.0	4.0	1.0	2.5	5.0	3.0	4.0
29	6.5	4.0	5.0	2.0	.0	1.0	4.5	1.5	2.5	4.5	.5	2.5
30	5.5	2.0	4.0	.5	.0	.0	4.0	2.5	3.0	4.0	.5	2.5
31	5.5	1.5	3.5	---	---	---	4.0	2.0	3.0	3.0	2.0	2.5
MONTH	20.5	1.5	12.0	11.0	.0	5.2	4.5	.0	1.3	5.0	.0	1.4

PYRAMID AND WINNEMUCCA LAKES BASIN

10348000 TRUCKEE RIVER AT RENO, NV--Continued

TEMPERATURE, WATER (DEG C), DDDWATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4.5	2.0	3.5	8.5	6.0	7.5	12.5	8.0	10.0	16.5	10.0	13.0
2	5.0	1.0	3.0	8.5	6.0	7.0	12.5	8.5	10.5	18.5	10.0	14.0
3	4.0	.0	2.0	9.5	6.0	7.5	12.0	9.5	10.5	18.5	10.5	14.5
4	4.0	.5	2.5	9.0	5.5	7.0	10.0	9.0	9.5	19.5	12.0	15.5
5	3.0	1.0	2.5	9.0	6.0	7.5	11.0	7.5	9.0	18.5	12.5	15.5
6	4.0	2.0	3.0	7.5	6.0	6.5	11.0	6.5	8.5	20.5	13.0	16.5
7	5.5	3.5	4.5	7.5	4.5	6.0	12.5	7.5	9.5	19.5	14.5	16.5
8	7.0	4.5	5.5	8.0	5.0	6.5	13.5	9.0	11.0	19.0	13.5	16.0
9	6.5	4.0	5.5	9.0	5.0	7.0	12.5	9.0	10.5	19.5	12.5	16.0
10	6.0	4.5	5.0	9.0	5.5	7.0	12.0	9.5	10.5	19.5	11.5	15.5
11	6.5	4.5	5.5	9.5	5.5	7.5	14.0	9.5	11.5	20.0	12.5	16.0
12	6.0	4.5	5.0	10.5	5.5	7.5	11.0	10.0	10.5	18.5	12.5	15.5
13	5.5	4.0	5.0	11.0	6.5	8.5	13.5	9.0	11.0	19.0	13.5	16.0
14	7.0	4.0	5.5	10.5	6.5	8.5	14.0	9.5	11.5	19.5	14.0	16.5
15	6.0	4.0	5.0	9.5	6.5	7.5	12.5	9.5	11.0	20.5	12.5	16.0
16	5.0	2.5	4.0	8.5	6.0	7.0	13.0	8.5	10.5	19.0	13.5	15.5
17	4.5	2.5	3.5	10.0	5.5	7.5	15.5	10.0	12.0	19.5	13.0	16.0
18	4.5	3.5	4.0	9.5	5.5	7.5	14.0	9.0	11.0	20.0	13.0	16.0
19	6.0	3.0	4.5	9.5	5.5	7.5	14.5	7.5	11.0	18.5	13.5	15.5
20	8.0	5.5	6.5	9.5	6.5	8.0	13.5	9.0	11.5	18.0	12.0	14.5
21	7.5	6.0	7.0	10.0	6.0	8.0	15.5	10.0	12.5	19.5	11.5	15.0
22	8.0	5.5	6.5	8.0	6.0	7.0	14.5	9.5	11.5	19.5	12.0	15.5
23	6.5	4.0	5.5	10.5	5.5	7.5	15.0	8.0	11.5	20.0	13.0	16.5
24	7.0	3.5	5.5	10.5	6.5	8.5	15.5	9.0	12.0	22.0	14.5	18.0
25	8.0	4.5	6.0	11.5	7.0	9.0	18.0	10.5	14.0	20.0	15.5	17.5
26	8.5	5.0	7.0	11.5	8.0	9.5	16.5	12.0	14.0	19.5	15.0	17.0
27	9.0	5.0	7.5	12.0	7.5	9.5	18.5	11.0	14.5	19.5	15.5	17.5
28	9.5	6.0	7.5	12.5	8.5	10.0	18.5	12.0	15.0	20.0	15.5	17.5
29	8.0	6.0	7.5	11.5	8.5	10.0	19.5	13.5	16.0	21.0	15.0	18.0
30	---	---	---	10.0	8.5	9.5	15.0	11.5	13.0	21.5	16.5	19.0
31	---	---	---	10.5	8.0	9.0	---	---	---	22.0	16.5	19.0
MONTH	9.5	.0	5.0	12.5	4.5	7.9	19.5	6.5	11.5	22.0	10.0	16.2
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.5	17.0	19.0	19.0	13.0	16.5	26.0	19.5	22.0	21.0	16.0	18.5
2	22.0	17.5	19.5	21.5	14.5	18.0	24.0	19.5	21.5	22.5	16.5	19.0
3	22.5	18.0	20.0	21.5	16.0	19.0	23.0	18.0	20.0	22.5	17.0	19.0
4	22.0	18.0	19.5	22.0	16.0	19.0	24.5	17.5	20.5	21.5	15.5	18.5
5	21.0	17.5	19.0	22.0	14.5	18.0	24.5	17.5	20.5	22.0	16.0	18.5
6	23.0	17.5	19.5	18.0	15.0	16.5	24.0	18.0	20.5	22.0	14.5	18.0
7	22.5	18.0	20.0	22.0	14.5	18.0	23.5	17.5	20.0	21.0	14.5	18.0
8	22.0	17.5	19.5	22.0	16.0	19.0	24.0	18.0	20.5	22.0	15.0	18.0
9	21.5	17.0	19.0	22.5	15.5	19.0	24.5	18.0	21.0	---	---	---
10	21.5	16.5	19.0	22.5	16.5	19.5	24.5	19.5	22.0	---	---	---
11	23.0	17.0	19.5	23.5	17.0	20.0	26.0	20.0	22.5	---	---	---
12	18.5	14.5	16.5	21.0	17.5	19.5	24.5	21.0	22.5	---	---	---
13	17.0	13.5	15.0	22.5	17.0	20.0	23.5	20.0	22.0	19.0	13.5	16.5
14	14.5	12.5	13.5	23.5	17.5	20.5	23.5	19.5	21.0	18.5	13.0	16.0
15	13.5	11.0	12.5	22.0	18.0	20.0	21.5	19.5	20.5	17.5	13.5	15.5
16	17.5	11.0	14.5	21.0	18.5	20.0	23.5	19.5	21.5	19.0	13.5	16.5
17	20.5	14.0	16.5	20.0	18.5	19.5	25.5	20.0	22.0	18.5	14.5	16.5
18	18.0	13.5	15.5	20.5	18.0	19.5	---	---	---	19.5	14.0	16.5
19	25.5	14.5	19.5	20.5	16.5	18.5	---	---	---	19.5	14.5	17.0
20	26.5	16.5	21.5	20.0	16.0	18.0	26.5	18.5	22.0	19.5	14.0	17.0
21	27.5	18.0	22.5	22.5	15.5	18.5	24.5	18.5	21.0	19.5	14.5	17.0
22	27.5	18.5	23.0	22.0	16.5	18.5	23.0	15.5	19.0	20.0	15.5	18.0
23	26.5	19.0	22.0	23.0	14.5	18.5	23.5	14.0	18.5	20.5	16.5	18.0
24	26.0	17.5	21.0	25.0	17.5	20.5	21.5	15.0	18.0	20.0	15.0	17.0
25	22.5	17.0	19.5	26.0	18.5	22.0	23.0	14.5	18.5	18.5	12.5	15.5
26	26.5	16.5	21.0	26.0	19.0	22.0	24.0	14.5	19.0	18.5	12.0	15.5
27	26.0	18.0	21.5	25.0	19.5	22.0	25.0	15.5	20.0	19.0	13.0	16.0
28	21.0	16.0	19.0	25.5	19.5	22.0	24.5	16.5	20.0	20.0	13.5	16.5
29	18.5	13.5	16.0	27.0	19.5	22.5	23.5	17.5	19.5	20.0	14.0	17.0
30	19.5	12.0	15.5	27.0	20.5	23.0	22.0	16.0	18.5	19.5	14.5	17.0
31	---	---	---	26.5	20.0	22.5	21.0	16.0	18.5	---	---	---
MONTH	27.5	11.0	18.6	27.0	13.0	19.7	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

337

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 McCarren 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 mi², 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 sea level (U.S. Army Corps of Engineers Benchmark).

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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 and Independence Lakes, and by several powerplants. Many diversions above station. No flow in August and September 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 448 ft³/s, April 2, gage height, 5.14 ft; maximum gage height, 5.23 ft, February 22; no flow several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	34	e109	86	72	211	279	157	137	33	3.1	9.9
2	6.4	33	e113	86	68	205	407	121	128	26	2.0	3.5
3	4.4	37	109	78	67	199	371	126	109	17	1.1	.24
4	4.2	33	115	77	66	203	420	128	107	16	3.9	.00
5	4.8	32	114	79	75	201	359	154	114	14	.28	.00
6	5.0	29	113	76	86	264	393	141	49	22	.49	.00
7	5.9	22	102	74	84	228	328	138	8.5	33	2.8	.00
8	6.2	27	93	72	82	245	309	127	11	33	1.9	.00
9	4.8	50	87	67	89	240	289	115	15	32	.28	.00
10	4.4	74	93	76	89	258	227	115	9.1	21	.12	.00
11	3.5	76	93	e72	89	232	193	132	3.8	22	1.3	.00
12	3.1	63	83	e71	104	219	195	116	2.2	28	.20	.00
13	2.9	66	78	e71	110	230	206	112	3.0	60	.00	19
14	2.1	109	71	e72	105	213	156	113	11	64	.35	33
15	2.6	110	69	74	112	213	152	119	40	109	.48	41
16	2.0	107	67	74	112	199	173	119	19	69	12	39
17	1.6	141	65	66	114	195	187	130	7.2	53	21	35
18	1.6	150	69	66	111	202	291	134	11	78	2.3	43
19	1.9	131	86	67	127	209	146	150	7.1	36	.31	45
20	2.4	130	92	76	175	215	156	141	4.2	24	.00	38
21	2.0	115	e98	81	290	215	161	123	2.8	15	.00	43
22	1.7	112	102	84	327	248	145	132	2.4	7.7	.00	42
23	4.5	108	92	86	323	239	132	135	3.4	5.0	.00	35
24	8.0	115	95	90	261	217	153	129	4.0	4.2	.00	12
25	6.2	111	e92	87	194	219	155	151	2.8	3.5	3.4	.48
26	36	116	89	83	201	213	160	173	2.5	5.2	.04	.00
27	171	126	88	82	216	209	136	132	16	5.9	.00	2.7
28	91	117	88	83	208	197	148	123	16	5.5	.00	2.1
29	68	111	91	85	209	191	136	128	37	5.1	.00	.71
30	51	107	92	79	---	190	197	128	39	5.3	.00	1.4
31	38	---	88	71	---	229	---	135	---	3.7	4.1	---
TOTAL	551.4	2592	2836	2391	4166	6748	6760	4077	922.0	856.1	108.97	446.03
MEAN	17.8	86.4	91.5	77.1	144	218	225	132	30.7	27.6	3.52	14.9
MAX	171	150	115	90	327	264	420	173	137	109	48	45
MIN	1.6	22	65	66	66	190	132	112	2.2	3.5	.00	.00
AC-FT	1090	5140	5630	4740	8260	13380	13410	8090	1830	1700	216	885

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1992, BY WATER YEAR (WY)

	253	555	696	606	828	1031	1109	1391	872	353	192	239
MEAN	253	555	696	606	828	1031	1109	1391	872	353	192	239
MAX	728	2573	3716	3149	3227	4590	3104	3965	5039	2586	802	1199
(WY)	1983	1984	1984	1984	1986	1986	1983	1982	1983	1983	1983	1983
MIN	17.8	33.9	54.2	71.6	66.4	218	225	132	30.7	27.6	3.52	14.9
(WY)	1992	1991	1991	1991	1991	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1977 - 1992
ANNUAL TOTAL	56232.8	32454.50	
ANNUAL MEAN	154	88.7	690
HIGHEST ANNUAL MEAN			2373
LOWEST ANNUAL MEAN			88.7
HIGHEST DAILY MEAN	1250	Mar 5	11800
LOWEST DAILY MEAN	1.6	Oct 17	.00
ANNUAL SEVEN-DAY MINIMUM	1.9	Oct 16	.00
INSTANTANEOUS PEAK FLOW		448	14900
INSTANTANEOUS PEAK STAGE		5.23	15.22
ANNUAL RUNOFF (AC-FT)	111500	64370	499600
10 PERCENT EXCEEDS	337	209	1940
50 PERCENT EXCEEDS	92	76	273
90 PERCENT EXCEEDS	8.0	1.7	76

PYRAMID AND WINNEMUCCA LAKES BASIN
10348200 TRUCKEE RIVER NEAR SPARKS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder since June 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction and periods of no flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 30.5°C, August 12, 1991; minimum, freezing point on several days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.0°C, July 31, August 11, 17, 18; minimum, freezing point on several days during January.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.5	17.5	19.0	7.0	2.0	4.5	---	---	---	2.5	1.0	2.0
2	20.0	16.0	18.0	8.5	3.5	6.0	---	---	---	2.0	.5	1.5
3	19.5	17.0	18.0	10.5	6.0	8.0	---	---	---	2.0	.5	1.0
4	18.5	16.0	17.5	10.0	6.0	8.0	---	---	---	3.5	.5	2.0
5	18.0	15.0	16.5	11.0	6.0	8.5	---	---	---	3.5	1.5	2.5
6	18.5	16.0	17.5	12.0	7.0	9.5	---	---	---	2.5	1.0	2.0
7	18.5	15.5	17.0	12.5	7.5	10.0	---	---	---	3.0	1.0	2.0
8	17.0	13.0	15.0	10.5	8.5	9.5	---	---	---	2.0	.0	1.0
9	16.5	13.5	15.5	10.5	9.0	10.0	---	---	---	1.5	.0	.5
10	16.0	13.5	15.0	10.0	7.5	9.0	---	---	---	1.0	.0	.0
11	17.0	14.0	15.0	9.5	6.0	8.0	---	---	---	1.0	.0	.0
12	16.5	14.5	15.5	8.5	5.5	7.0	---	---	---	.5	.0	.0
13	16.5	14.5	15.5	8.0	5.5	6.5	---	---	---	.5	.0	.0
14	16.0	14.0	15.0	6.0	3.5	4.5	---	---	---	1.5	.0	.5
15	15.5	13.0	14.0	5.0	2.5	4.0	---	---	---	1.0	.0	.5
16	16.0	13.0	14.5	3.5	1.0	2.5	---	---	---	1.5	.0	.5
17	15.5	12.5	14.0	5.0	3.5	4.0	---	---	---	2.0	1.0	1.5
18	14.5	12.5	13.5	4.0	2.5	3.5	---	---	---	2.5	.0	1.0
19	14.5	12.5	13.5	3.5	1.0	2.5	---	---	---	2.0	.0	.5
20	14.0	12.0	13.0	5.5	3.0	4.0	---	---	---	1.5	.0	.5
21	13.5	11.0	12.5	6.0	4.0	5.0	---	---	---	2.0	.0	1.0
22	12.5	11.0	11.5	4.5	1.5	3.5	---	---	---	2.0	.0	.5
23	11.0	8.0	9.5	3.0	.5	2.0	---	---	---	1.5	.0	.5
24	9.0	6.5	8.0	4.5	1.0	3.0	---	---	---	2.5	.0	1.0
25	8.5	7.0	7.5	5.0	2.0	4.0	---	---	---	4.5	1.0	3.0
26	10.0	7.0	8.0	5.5	2.5	4.0	---	---	---	4.5	2.5	3.5
27	8.5	5.0	6.5	---	---	---	---	---	---	4.5	1.5	3.0
28	6.5	3.0	5.0	---	---	---	3.5	.5	2.0	5.5	3.5	4.5
29	6.5	4.5	5.5	---	---	---	3.0	1.5	2.5	4.5	1.5	3.0
30	6.0	2.0	4.0	---	---	---	4.0	2.5	3.0	4.5	1.0	3.0
31	6.0	1.5	3.5	---	---	---	4.0	2.0	3.0	3.5	2.0	3.0
MONTH	20.5	1.5	12.7	---	---	---	---	---	---	5.5	.0	1.5

PYRAMID AND WINNEMUCCA LAKES BASIN

339

10348200 TRUCKEE RIVER NEAR SPARKS, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

FEBRUARY				MARCH			APRIL			MAY		
1	---	---	---	9.0	6.0	7.5	13.0	7.5	10.5	16.0	10.5	13.0
2	---	---	---	8.0	6.0	7.0	13.0	8.5	11.0	18.0	10.5	14.5
3	---	---	---	10.0	6.0	7.5	13.5	9.5	11.5	18.5	11.0	15.0
4	---	---	---	9.0	5.0	7.0	10.5	8.5	9.5	19.0	12.0	16.0
5	---	---	---	9.0	6.0	7.5	11.5	6.5	9.0	19.0	13.0	16.0
6	---	---	---	8.0	5.5	6.5	11.5	6.5	9.0	21.0	13.5	17.0
7	---	---	---	7.5	4.0	6.0	13.0	7.5	10.0	20.0	15.0	17.0
8	---	---	---	8.5	4.5	6.5	14.0	9.0	11.0	19.5	13.5	16.5
9	---	---	---	9.0	4.5	7.0	13.0	9.0	11.0	19.5	13.0	16.5
10	---	---	---	9.5	5.0	7.0	12.0	9.5	10.5	19.5	12.0	16.0
11	---	---	---	10.0	5.0	7.5	14.0	9.5	11.5	20.0	13.0	16.5
12	---	---	---	10.5	5.0	8.0	11.5	10.0	10.5	19.0	13.0	16.0
13	---	---	---	11.0	6.0	9.0	14.0	9.0	11.0	20.0	13.5	17.0
14	---	---	---	10.5	6.5	9.0	15.0	9.0	12.0	20.5	14.5	17.5
15	---	---	---	9.5	6.0	7.5	13.0	9.0	11.0	20.5	13.0	17.0
16	---	---	---	8.5	6.0	7.5	12.5	8.5	10.5	19.0	13.5	16.5
17	---	---	---	9.5	5.5	7.5	15.5	9.5	12.5	20.5	13.0	16.5
18	---	---	---	10.0	5.5	7.5	14.0	9.5	11.5	20.5	13.5	17.0
19	---	---	---	9.5	5.0	7.5	14.5	8.0	11.5	19.5	14.0	16.5
20	---	---	---	9.5	6.0	8.0	14.0	9.0	11.5	18.0	12.0	15.0
21	---	---	---	10.5	6.0	8.0	15.5	10.0	12.5	19.5	12.0	16.0
22	---	---	---	7.5	6.0	7.0	14.5	9.0	12.0	20.5	12.5	16.5
23	---	---	---	10.5	5.0	8.0	14.5	8.0	11.5	21.0	13.5	17.5
24	---	---	---	10.5	6.0	8.5	15.5	9.0	12.5	23.0	15.0	19.0
25	---	---	---	11.5	7.0	9.0	17.5	10.5	14.5	21.5	15.5	18.5
26	---	---	---	12.0	8.0	10.0	16.5	12.5	14.5	21.0	15.0	18.0
27	---	---	---	12.5	7.0	9.5	18.5	11.5	15.0	22.5	15.5	19.0
28	9.5	5.5	8.0	13.5	8.0	10.5	19.0	12.5	16.0	21.5	16.0	19.0
29	8.5	6.0	7.5	12.0	8.0	10.5	19.0	14.0	16.5	22.5	15.0	19.0
30	---	---	---	10.0	8.5	9.5	15.0	12.0	13.5	23.5	16.5	20.0
31	---	---	---	11.0	7.5	9.5	---	---	---	24.0	16.5	20.0
MONTH	---	---	---	13.5	4.0	8.0	19.0	6.5	11.8	24.0	10.5	17.0
JUNE				JULY			AUGUST			SEPTEMBER		
1	23.0	17.5	20.5	22.0	15.0	18.5	27.5	22.5	24.5	20.5	17.0	19.0
2	24.5	17.5	21.0	24.5	16.0	20.0	26.5	22.5	24.0	22.5	19.5	20.5
3	25.0	18.0	21.5	25.5	18.0	21.0	---	---	---	---	---	---
4	24.5	18.0	21.5	26.0	18.0	21.5	25.5	21.0	23.0	---	---	---
5	23.5	17.5	21.0	24.5	16.5	20.5	---	---	---	---	---	---
6	25.0	17.0	21.0	21.0	16.5	19.0	---	---	---	---	---	---
7	22.5	17.5	20.5	25.5	15.5	20.0	25.0	21.0	22.5	---	---	---
8	25.0	17.5	21.0	27.0	18.5	22.0	26.5	21.0	23.0	---	---	---
9	25.0	18.0	21.5	27.0	18.0	22.0	---	---	---	---	---	---
10	22.5	17.5	20.0	27.0	18.5	22.0	---	---	---	---	---	---
11	24.5	19.5	22.0	26.5	19.5	22.5	28.0	24.0	26.0	---	---	---
12	22.0	18.5	20.5	27.5	20.0	22.5	---	---	---	---	---	---
13	19.0	16.5	18.0	27.0	19.5	23.0	---	---	---	---	---	---
14	16.5	12.5	14.5	27.0	20.5	23.5	---	---	---	19.5	14.5	17.0
15	15.5	12.0	13.5	25.5	20.0	23.0	26.5	22.0	24.0	20.0	14.5	17.0
16	22.0	11.5	16.0	26.5	20.5	23.5	26.0	21.5	23.0	21.0	14.5	17.5
17	21.5	16.0	19.0	25.0	20.5	22.5	28.0	21.5	25.0	21.0	15.0	18.0
18	22.0	15.5	18.5	26.5	19.5	22.5	28.0	24.0	25.5	21.5	15.0	18.0
19	21.0	16.0	18.5	27.0	18.5	22.5	---	---	---	21.5	15.5	18.0
20	23.0	19.5	21.5	25.5	18.0	21.5	---	---	---	22.0	15.0	18.0
21	25.5	21.0	23.0	26.5	18.0	22.0	---	---	---	22.0	15.5	19.0
22	26.5	22.0	24.0	23.5	18.0	21.0	---	---	---	22.5	16.5	19.5
23	25.5	23.0	24.0	21.5	18.5	20.0	---	---	---	22.5	17.0	19.5
24	26.5	22.0	23.5	22.5	20.0	21.0	---	---	---	19.5	15.5	17.5
25	24.5	21.0	22.5	25.0	21.0	22.5	---	---	---	18.5	15.5	17.0
26	25.5	20.5	22.5	26.5	21.5	23.5	---	---	---	---	---	---
27	27.5	19.5	23.5	27.0	22.0	24.0	---	---	---	---	---	---
28	23.0	19.0	21.0	26.0	22.5	24.5	---	---	---	18.5	16.0	17.5
29	20.0	15.5	18.0	26.0	22.5	24.5	---	---	---	---	---	---
30	19.5	13.0	16.5	26.5	23.0	25.0	---	---	---	---	---	---
31	---	---	---	28.0	23.5	25.5	---	---	---	---	---	---
MONTH	27.5	11.5	20.3	28.0	15.0	22.2	---	---	---	---	---	---

PYRAMID AND WINEMUCCA 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 mi².

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,380 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake (station 10336710) during dry years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.1 ft³/s, April 17, gage height, 1.57 ft, maximum gage height, 1.96 ft, January 20, backwater from ice; minimum daily discharge, 0.84 ft³/s, May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.3	1.4	1.7	1.0	1.1	2.6	1.9	.94	.94	1.0	1.9
2	1.8	1.2	1.4	1.7	1.0	1.1	2.9	1.8	.94	.94	1.0	1.6
3	1.8	1.0	1.4	1.7	1.1	1.1	3.2	1.5	.94	.94	1.0	1.6
4	1.8	1.0	1.4	1.6	1.0	1.1	3.2	1.4	.94	.94	1.0	1.8
5	1.8	1.0	1.4	1.5	1.0	1.1	2.8	1.3	.94	.94	1.0	1.9
6	1.8	1.0	1.5	1.4	1.0	1.1	2.6	1.3	.94	.94	1.0	2.0
7	1.8	1.1	1.5	1.4	1.0	1.1	2.7	1.3	.94	.94	1.0	2.0
8	1.8	1.1	1.5	1.3	1.0	1.1	3.2	1.2	.94	.94	1.0	2.1
9	1.8	1.1	1.5	1.3	1.0	.96	3.1	1.2	.94	.94	1.0	2.3
10	1.8	1.1	1.5	1.3	1.0	e.94	3.1	1.1	.94	.94	1.1	2.3
11	1.7	1.1	1.6	1.3	1.0	e.94	3.2	1.1	.94	.94	1.1	2.2
12	1.7	1.1	1.7	1.3	1.0	.94	3.1	1.0	.94	.96	1.1	2.2
13	1.7	1.1	1.7	1.3	1.0	.99	3.5	1.0	.94	1.0	1.2	2.2
14	1.7	1.1	1.7	1.2	1.0	1.0	3.2	1.0	.94	1.0	1.5	2.2
15	1.4	1.1	1.7	1.0	e.94	1.1	3.1	1.0	.94	1.1	1.7	2.2
16	1.3	1.1	1.7	1.0	e.94	1.1	2.9	1.0	.94	1.1	1.7	2.2
17	1.2	1.4	1.7	1.0	.94	1.1	3.6	1.0	.95	1.1	1.8	2.2
18	1.1	1.2	1.7	e1.0	.91	e1.1	3.4	1.0	1.0	1.1	1.8	2.2
19	1.1	1.2	1.7	e1.0	.90	1.1	2.7	.94	.95	1.0	1.8	2.2
20	1.1	1.2	1.7	e1.0	1.1	1.1	2.7	.89	.94	1.0	1.8	2.2
21	1.1	1.2	1.7	1.0	1.2	1.1	2.7	.87	.94	1.0	2.0	2.2
22	1.1	1.2	1.7	1.0	1.3	1.2	2.5	.87	.94	1.0	2.0	2.2
23	1.1	1.3	1.7	1.0	1.2	1.3	2.2	.87	.91	1.0	2.0	2.2
24	1.1	1.3	1.7	1.0	1.1	1.5	2.2	.87	.87	1.0	2.0	2.2
25	1.1	1.3	1.7	1.0	1.1	1.6	2.2	.87	.87	1.1	2.0	2.2
26	1.7	1.3	1.7	1.0	1.1	1.7	2.5	.87	.87	1.1	2.0	2.3
27	1.3	1.4	1.7	1.0	1.1	1.7	2.4	.87	.87	1.1	2.0	2.5
28	1.3	1.4	1.7	1.0	1.1	2.1	2.3	.84	.87	1.0	2.0	2.5
29	1.3	1.4	1.7	e1.0	1.1	2.4	2.4	.89	.89	1.0	2.1	2.5
30	1.3	1.4	1.7	1.0	---	2.4	2.3	.94	.96	1.0	2.2	2.5
31	1.3	---	1.7	1.0	---	2.6	---	.94	---	.99	2.2	---
TOTAL	45.7	35.7	50.1	37.0	30.13	40.77	84.5	33.63	27.87	30.99	48.1	64.8
MEAN	1.47	1.19	1.62	1.19	1.04	1.32	2.82	1.08	.93	1.00	1.55	2.16
MAX	1.8	1.4	1.7	1.7	1.3	2.6	3.6	1.9	1.0	1.1	2.2	2.5
MIN	1.1	1.0	1.4	1.0	.90	.94	2.2	.84	.87	.94	1.0	1.6
AC-FT	91	71	99	73	60	81	168	67	55	61	95	129

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1992, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	2.17	2.37	2.22	2.21	2.92	2.67	4.76	7.51	5.67	2.81	2.19	1.93							
MAX	5.42	6.55	5.83	4.75	10.3	6.10	9.00	18.8	27.4	11.7	7.22	5.06							
(WY)	1984	1984	1984	1984	1986	1986	1982	1984	1983	1983	1983	1983							
MIN	.97	.94	1.13	1.10	1.04	1.29	2.09	1.08	.93	.86	.67	.70							
(WY)	1982	1991	1991	1978	1992	1991	1991	1992	1992	1977	1977	1977							

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1974 - 1992

ANNUAL TOTAL	595.7	529.29	
ANNUAL MEAN	1.63	1.45	
HIGHEST ANNUAL MEAN			3.29
LOWEST ANNUAL MEAN			7.67
HIGHEST DAILY MEAN	4.6 May 8	3.6 Apr 17	1.45 1992
LOWEST DAILY MEAN	1.0 Nov 3	.84 May 28	65 Feb 16 1986
ANNUAL SEVEN-DAY MINIMUM	1.0 Nov 3	.87 May 22	.48 Sep 9 1976
INSTANTANEOUS PEAK FLOW		4.1 Apr 17	.49 Sep 13 1976
INSTANTANEOUS PEAK STAGE		1.96 Jan 20	89 Feb 16 1986
ANNUAL RUNOFF (AC-FT)	1180	1050	3.64 Feb 16 1986
10 PERCENT EXCEEDS	2.4	2.3	6.6
50 PERCENT EXCEEDS	1.4	1.2	2.1
90 PERCENT EXCEEDS	1.2	.94	1.1

PYRAMID AND WINNEMUCCA LAKES BASIN

341

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 about 4.75 mi north of Carson City.

DRAINAGE AREA.--83.8 mi², including Little Washoe Lake.

PERIOD OF RECORD.--April 1963 to September 1982, July 1988 to January 1989, July and August 1989, October 1989, March to September 1991 (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, (daily elevations).

GAGE.--Water-stage recorder. Datum of gage is above sea level. 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 5,032.0 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. Beginning August 24, 1990 elevations have been obtained by levels from Reference Mark-N at the north end of Washoe Lake.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,019.18 ft, March 5; no contents October 1 to February 3, and April 21 to September 30.

Capacity table (elevation, in feet, and volume, in acre-feet)

5,017.5	0	5,020	2,200
5,018	100	5,021	4,300
5,019	800		

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	--	0	--
Oct. 31.	--	0	0
Nov. 30.	--	0	0
Dec. 31.	--	0	0
CAL YR 1991.	--	--	0
Jan. 31.	--	0	0
Feb. 29.	5,018.90	700	+700
Mar. 31.	5,018.30	240	-460
Apr. 30.	--	0	-240
May 31.	--	0	0
June 30.	--	0	0
July 31.	--	0	0
Aug. 31.	--	0	0
Sept. 30.	--	0	0
WTR YR 1992.	--	--	0

NOTE: Monthend elevations and contents are interpolated from readings made during the month.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 mi².

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 sea level. 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)."

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,026.6 ft, April 2; minimum observed, 5,022.7 ft, August 10.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	5,023.1	58	--
Oct. 31.	5,023.1	58	0
Nov. 30.	5,023.9	118	+60
Dec. 31.	5,025.1	210	+92
CAL YR 1991.	--	--	+39
Jan. 31.	5,025.7	270	+60
Feb. 29.	5,026.4	340	+70
Mar. 31.	5,026.6	360	+20
Apr. 30.	5,026.2	320	-40
May 31.	5,025.6	260	-60
June 30.	5,024.8	185	-75
July 31.	5,023.3	72	-113
Aug. 31.	5,023.0	50	-22
Sept. 30.	5,022.8	42	-8
WTR YR 1992.	--	--	-16

NOTE: Monthend elevations and contents are interpolated from readings made during the year.

PYRAMID AND WINNEMUCCA LAKES BASIN

343

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 mi².

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,320 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. For the period of record, the minimum daily discharge of 2.6 ft³/s occurred several days in September 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base of 40 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 17	1700	*14	*1.46				
Minimum daily, 3.1 ft ³ /s, Aug. 19.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	5.0	e5.9	4.2	5.1	6.1	6.4	8.6	5.6	5.5	3.7	3.6
2	3.8	4.8	e5.6	4.2	5.5	5.9	7.2	8.6	5.5	5.3	3.5	3.5
3	3.9	4.8	4.3	4.2	6.4	5.9	7.8	8.5	5.4	5.0	3.5	3.5
4	3.9	4.9	4.4	4.3	5.8	5.9	7.7	8.2	5.2	4.8	3.4	3.6
5	4.1	5.2	4.4	4.3	5.2	5.9	7.1	8.0	4.9	4.8	3.2	3.6
6	4.3	5.2	4.4	4.1	5.2	5.9	7.1	8.4	4.8	4.8	3.2	3.6
7	4.2	5.2	4.5	4.2	5.2	5.7	7.5	8.8	4.7	4.9	3.2	3.6
8	4.2	5.3	4.6	4.5	5.4	5.6	7.7	8.6	4.8	4.7	3.3	3.6
9	4.2	6.2	e4.5	e4.4	5.4	5.6	7.7	8.3	4.6	4.4	3.4	3.5
10	4.3	5.3	4.4	4.3	5.4	5.8	7.8	8.1	4.5	4.4	3.3	3.4
11	4.3	4.8	4.3	4.2	5.5	5.9	7.9	8.0	4.4	4.6	3.4	3.4
12	4.4	4.7	4.4	4.4	5.6	5.9	8.2	7.9	4.7	5.0	3.4	3.4
13	4.2	4.8	4.4	4.2	5.8	6.1	8.1	7.8	4.8	5.3	3.7	3.3
14	4.3	4.5	4.4	4.2	5.7	6.1	8.3	7.6	5.1	5.6	3.6	3.3
15	4.3	4.6	4.3	4.4	e5.7	5.9	7.9	7.3	5.2	5.5	3.6	3.4
16	4.4	4.9	4.3	4.5	e5.8	5.8	8.1	7.2	5.2	4.9	3.5	3.5
17	4.3	4.5	4.3	4.5	5.8	5.5	11	7.2	5.5	4.8	3.4	3.5
18	4.4	4.5	4.4	4.5	5.8	5.6	9.9	7.1	5.8	4.6	3.3	3.6
19	4.3	4.9	e4.6	5.1	6.1	5.6	9.7	7.4	5.4	4.0	3.1	3.5
20	4.2	5.4	4.8	5.3	6.6	5.5	10	7.4	5.0	3.8	3.2	3.4
21	4.2	4.8	4.4	4.6	6.9	5.4	10	7.2	4.8	3.8	3.2	3.5
22	4.5	4.7	4.3	4.5	7.3	5.4	9.4	6.9	4.7	3.6	3.4	3.6
23	4.5	5.1	4.3	4.6	6.7	5.2	9.1	6.7	4.7	3.7	3.6	3.5
24	4.4	4.5	4.3	4.8	6.5	5.3	9.5	6.3	5.0	3.8	3.8	3.8
25	4.7	4.6	4.3	4.9	6.1	5.5	11	6.1	4.7	3.7	3.7	3.8
26	5.6	4.6	4.3	4.9	6.1	5.7	11	5.8	4.6	3.6	3.5	3.7
27	4.7	4.6	4.3	4.8	6.2	5.6	11	5.8	4.5	3.6	3.4	3.8
28	5.2	e4.9	4.3	4.9	6.3	5.9	11	5.8	4.6	e3.8	3.3	3.7
29	4.9	e4.7	4.3	e5.0	6.2	6.0	11	5.7	5.0	4.1	3.4	3.7
30	4.6	e4.8	4.2	5.0	---	6.2	9.4	5.6	5.7	4.1	4.0	3.7
31	4.9	---	4.3	5.2	---	6.0	---	5.7	---	3.9	3.9	---
TOTAL	136.1	146.8	138.5	141.2	171.3	178.4	265.5	226.6	149.4	138.4	107.1	106.6
MEAN	4.39	4.89	4.47	4.55	5.91	5.75	8.85	7.31	4.98	4.46	3.45	3.55
MAX	5.6	6.2	5.9	5.3	7.3	6.2	11	8.8	5.8	5.6	4.0	3.8
MIN	3.8	4.5	4.2	4.1	5.1	5.2	6.4	5.6	4.4	3.6	3.1	3.3
AC-FT	270	291	275	280	340	354	527	449	296	275	212	211

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1992, BY WATER YEAR (WY)

	MEAN	6.77	6.92	6.08	5.57	6.20	7.27	13.2	16.5	16.3	8.50	5.53	4.79
MAX	15.9	17.3	12.3	8.15	9.24	12.8	20.9	32.5	51.7	22.9	10.9	8.71	
(WY)	1985	1985	1985	1986	1986	1986	1989	1986	1986	1986	1986	1986	1986
MIN	4.15	4.53	4.47	4.33	4.28	5.24	5.04	7.31	4.98	4.46	3.40	3.03	
(WY)	1989	1991	1992	1991	1989	1991	1991	1992	1992	1992	1988	1991	

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1985 - 1992

ANNUAL TOTAL	2052.7	1905.9	
ANNUAL MEAN	5.62	5.21	8.63
HIGHEST ANNUAL MEAN			15.9
LOWEST ANNUAL MEAN			5.21
HIGHEST DAILY MEAN	22	11	73
LOWEST DAILY MEAN	2.6	3.1	2.6
ANNUAL SEVEN-DAY MINIMUM	2.6	3.3	2.6
INSTANTANEOUS PEAK FLOW		14	78
INSTANTANEOUS PEAK STAGE		1.46	1.63
ANNUAL RUNOFF (AC-FT)	4070	3780	6250
10 PERCENT EXCEEDS	9.1	7.7	17
50 PERCENT EXCEEDS	4.5	4.8	6.1
90 PERCENT EXCEEDS	3.5	3.5	4.1

PYRAMID AND WINNEMUCCA LAKES BASIN

10348900 GALENA CREEK NEAR STEAMBOAT, NV

LOCATION.--Lat 39°21'43", long 119°49'37", in SW 1/4 SW 1/4 sec.2, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank, 1 mi upstream from Jones Creek, 3.5 mi upstream from mouth, 4.5 mi west-southwest of Steamboat, and 12 mi south of Reno.

DRAINAGE AREA.--8.5 mi², approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,592.0 ft above sea level, supplementary adjustment of 1956. Prior to October 8, 1965, at same site at datum 3.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Two small diversions above station, one for irrigation and one diverts to Little Washoe Lake (station 10348800) during winter months.

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)
Oct. 26	0900	*13	3.03	Apr. 17	1900	*13	3.03
Jan. 19	2100	Ice jam	*3.13	Apr. 29	1700	*13	3.04

Minimum daily, 0.09 ft³/s, March 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.3	e.30	e.30	e.20	.20	.41	8.5	4.7	4.5	2.8	2.5
2	2.8	3.2	e.30	e.30	e.20	.20	.46	8.1	4.4	4.3	2.5	2.4
3	2.8	3.7	e.30	e.30	e.20	.20	.46	7.9	4.1	3.9	2.7	2.3
4	2.8	3.9	e.30	e.30	e.20	.18	.42	7.8	4.0	3.7	2.8	2.7
5	2.8	4.3	e.30	e.30	e.20	.17	.32	7.8	4.2	3.5	2.7	2.6
6	2.8	4.2	e.30	e.30	e.20	e.15	3.5	7.9	4.1	3.5	2.7	2.6
7	2.8	2.6	e.30	e.30	e.20	.12	7.0	8.1	4.1	3.3	2.7	2.7
8	2.8	.54	e.30	e.30	e.20	.12	7.6	8.0	4.3	3.3	2.6	2.7
9	2.8	1.0	e.30	e.30	e.20	.11	7.3	7.7	4.2	3.1	2.7	2.8
10	2.8	.77	e.30	e.30	e.20	.09	7.4	7.0	3.8	3.3	2.5	2.6
11	2.8	.35	e.30	e.30	e.20	.12	8.0	7.0	3.9	3.3	2.5	2.6
12	2.8	e.30	e.30	e.30	e.20	.37	7.6	7.0	4.1	3.5	2.6	2.7
13	2.8	e.30	e.30	e.30	e.20	.36	7.6	6.9	4.3	3.9	3.0	2.6
14	2.8	e.30	e.30	e.30	e.20	.36	7.9	6.7	4.8	4.3	3.1	2.6
15	2.8	e.30	e.30	e.30	e.20	.36	7.7	6.7	5.0	4.1	3.1	2.6
16	2.8	e.30	e.30	e.30	e.20	.36	7.7	6.6	5.0	3.5	3.1	2.6
17	2.8	e.30	e.30	e.30	e.20	.32	11	6.4	5.3	3.3	2.8	2.6
18	2.8	e.30	e.30	e.30	e.20	e.26	9.3	6.2	5.5	3.1	2.5	2.7
19	2.8	e.30	e.30	e.30	e.30	.21	8.3	5.8	5.0	2.8	2.3	2.5
20	2.8	e.30	e.30	e.20	e.70	.22	8.8	5.8	4.8	2.8	2.3	2.7
21	2.8	e.30	e.30	e.20	e.40	.22	8.7	5.7	4.5	3.0	2.4	2.8
22	3.2	e.30	e.30	e.20	e.40	.30	7.9	5.5	4.3	3.0	2.6	2.7
23	3.3	e.30	e.30	e.20	e.30	.35	7.6	5.4	4.1	2.6	2.6	2.8
24	3.5	e.30	e.30	e.20	e.30	.30	8.4	5.1	4.5	2.6	2.5	2.9
25	3.6	e.30	e.30	e.20	.24	.25	9.1	5.0	4.5	2.3	2.4	3.0
26	5.9	e.30	e.30	e.20	.22	.25	9.2	5.0	4.3	2.5	2.4	2.9
27	3.0	e.30	e.30	e.20	.21	.23	9.3	4.8	4.3	2.5	2.3	2.7
28	3.6	e.30	e.30	e.20	.20	.22	9.8	4.5	4.1	2.6	2.3	2.6
29	3.5	e.30	e.30	e.20	.20	.22	10	4.6	4.3	2.7	2.6	2.6
30	3.5	e.30	e.30	e.20	---	.34	9.3	4.5	4.5	2.7	2.9	2.5
31	5.7	---	e.30	e.20	---	.40	---	4.7	---	2.7	3.2	---
TOTAL	97.6	33.56	9.30	8.10	7.07	7.56	208.07	198.7	133.0	100.2	82.2	79.6
MEAN	3.15	1.12	.30	.26	.24	.24	6.94	6.41	4.43	3.23	2.65	2.65
MAX	5.9	4.3	.30	.30	.70	.40	11	8.5	5.5	4.5	3.2	3.0
MIN	2.8	.30	.30	.20	.20	.09	.32	4.5	3.8	2.3	2.3	2.3
AC-FT	194	67	18	16	14	15	413	394	264	199	163	158

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	6.95	3.89	2.59	2.27	2.31	2.86	6.74	18.6	27.4	16.3	9.24	6.97																			
MAX	16.3	15.3	13.6	11.0	10.4	13.8	17.5	38.0	108	60.8	29.5	17.8																			
(WY)	1983	1984	1984	1984	1984	1986	1986	1984	1967	1983	1965	1983																			
MIN	2.35	.34	.097	.20	.15	.24	1.61	6.41	4.43	3.19	2.65	2.65																			
(WY)	1991	1991	1989	1989	1991	1992	1967	1992	1992	1977	1992	1992																			

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	1498.17	964.96	
ANNUAL MEAN	4.10	2.64	
HIGHEST ANNUAL MEAN			8.87
LOWEST ANNUAL MEAN			22.8
HIGHEST DAILY MEAN	25 Jun 10	11 Apr 17	250 Aug 15 1965
LOWEST DAILY MEAN	.07 Mar 2	.09 Mar 10	.00 Dec 9 1971
ANNUAL SEVEN-DAY MINIMUM	.09 Feb 20	.13 Mar 5	.00 Dec 5 1972
INSTANTANEOUS PEAK FLOW		13 Apr 17	3670 Aug 15 1965
INSTANTANEOUS PEAK STAGE		3.04 Apr 29	
ANNUAL RUNOFF (AC-FT)	2970	1910	6420
10 PERCENT EXCEEDS	11	6.9	20
50 PERCENT EXCEEDS	2.8	2.6	5.1
90 PERCENT EXCEEDS	.19	.20	.60

PYRAMID AND WINNEMUCCA LAKES BASIN

345

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, 250 ft upstream from Steamboat Ditch, 0.8 mi southwest of Steamboat Post Office, and 11 mi southeast of Reno.

DRAINAGE AREA.--123 mi².

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 4,600 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges and daily discharges less than 0.15 ft³/s, which are poor. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700). Instantaneous low flow for period of record occurred September 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft³/s, October 26, gage height, 1.80 ft; minimum daily, 0.02 ft³/s, August 8-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	4.7	e2.3	3.8	3.8	3.3	1.7	2.6	.19	.84	.18	.17
2	.89	4.6	3.4	e3.8	3.8	3.0	1.5	.99	.20	.93	.16	.40
3	.36	4.7	3.5	e3.9	3.7	3.0	1.4	.96	.17	.41	.12	.36
4	.47	4.4	3.3	4.2	3.8	3.1	1.6	.89	.15	.34	.15	.51
5	.58	4.1	3.2	4.4	3.9	3.0	1.6	.89	.14	.22	.23	.42
6	.77	4.3	4.3	4.2	4.1	3.6	1.9	.77	.15	.15	.13	.31
7	.61	4.1	6.1	4.2	4.2	3.3	3.0	1.1	.35	.12	.03	.47
8	.83	1.8	3.3	4.0	4.0	3.2	2.6	.79	.18	.35	.02	1.2
9	1.3	2.2	3.2	4.4	4.3	3.1	2.7	.97	.34	.33	.02	.76
10	1.6	2.4	3.2	4.2	4.1	3.0	2.3	.77	.25	.44	.02	.55
11	1.4	2.2	3.6	4.1	4.3	3.0	2.2	1.1	.48	.16	.02	.37
12	1.2	1.4	3.5	3.9	4.5	2.9	2.3	1.4	.43	.18	.02	.29
13	1.1	1.4	3.4	3.9	3.7	2.6	2.5	.74	.57	.40	.03	.27
14	.47	2.1	3.5	4.1	3.6	2.5	1.3	.70	1.1	.54	.55	.23
15	.39	2.3	3.5	4.1	4.1	2.1	.82	.65	1.7	.99	.59	.34
16	.34	2.3	3.5	4.1	4.3	2.1	.60	.72	.97	.57	.48	.57
17	.77	7.2	3.4	4.2	4.2	2.0	1.7	.55	.63	.88	.44	.66
18	.56	4.2	3.6	4.0	4.2	1.8	4.7	.44	1.2	1.1	.12	.75
19	.54	2.6	3.3	3.9	4.4	1.8	1.7	.41	1.8	.46	.05	.47
20	.40	2.5	3.2	3.8	4.9	1.8	2.6	.40	1.1	.36	.03	.32
21	.69	2.8	3.4	3.8	4.4	1.9	2.4	.39	.77	.64	.03	.28
22	1.2	3.0	3.7	3.7	4.2	2.4	.89	.35	.65	.54	.04	.21
23	1.0	2.5	3.7	3.8	3.9	2.3	.91	.32	.91	.38	.04	.38
24	2.2	2.3	3.7	4.0	3.5	2.1	.89	.28	1.3	.41	.04	.50
25	2.6	2.2	3.7	4.3	3.3	2.5	1.2	.27	.96	.33	.05	.50
26	12	2.7	3.8	4.0	3.1	2.7	.96	.29	.39	.24	.04	.40
27	4.3	3.2	3.9	3.9	3.1	2.3	1.5	.30	.24	.24	.04	.32
28	3.4	2.9	3.7	3.8	3.1	2.2	.88	.28	.15	.24	.04	.26
29	4.5	2.5	4.0	3.9	3.2	2.2	1.0	.25	.18	.37	.04	.34
30	4.2	e2.3	3.9	4.0	---	2.3	3.6	.24	.52	.36	.04	.43
31	4.6	---	3.8	4.0	---	1.9	---	.22	---	.27	.08	---
TOTAL	56.12	91.9	111.6	124.4	113.7	79.0	54.95	21.03	18.17	13.79	3.87	13.04
MEAN	1.81	3.06	3.60	4.01	3.92	2.55	1.83	.68	.61	.44	.12	.43
MAX	12	7.2	6.1	4.4	4.9	3.6	4.7	2.6	1.8	1.1	.59	1.2
MIN	.34	1.4	2.3	3.7	3.1	1.8	.60	.22	.14	.12	.02	.17
AC-FT	111	182	221	247	226	157	109	42	36	27	7.7	26

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1992, BY WATER YEAR (WY)

	7.59	10.3	14.1	18.5	23.9	25.4	24.0	27.5	35.6	20.1	10.7	7.52
MEAN	7.59	10.3	14.1	18.5	23.9	25.4	24.0	27.5	35.6	20.1	10.7	7.52
MAX	41.6	85.0	149	156	162	187	146	132	223	176	101	57.5
(WY)	1984	1984	1984	1984	1986	1986	1986	1983	1983	1983	1983	1983
MIN	.19	1.12	2.23	3.04	2.20	2.55	1.61	.68	.61	.21	.054	.036
(WY)	1991	1991	1991	1962	1991	1992	1988	1992	1992	1988	1990	1990

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1962 - 1992

ANNUAL TOTAL	1117.26	701.57	
ANNUAL MEAN	3.06	1.92	18.7
HIGHEST ANNUAL MEAN			115
LOWEST ANNUAL MEAN			1.92
HIGHEST DAILY MEAN	30	12	1220
LOWEST DAILY MEAN	.23	.02	.00
ANNUAL SEVEN-DAY MINIMUM	.41	.02	.00
INSTANTANEOUS PEAK FLOW		35	3600
INSTANTANEOUS PEAK STAGE		1.80	6.79
INSTANTANEOUS LOW FLOW		.01	.00
ANNUAL RUNOFF (AC-FT)	2220	1390	13570
10 PERCENT EXCEEDS	5.6	4.1	48
50 PERCENT EXCEEDS	2.6	1.4	6.0
90 PERCENT EXCEEDS	.68	.18	1.1

PYRAMID AND WINNEMUCCA LAKES BASIN

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'05", long 11°04'58", in NW 1/4 NE 1/4 sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, 800 ft downstream from Southern Pacific Railroad bridge, 0.9 mi southeast of Vista, 1.5 mi downstream from Steamboat Creek, 4 mi southeast of Sparks, and at mi 52.23, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,431 mi².

WATER-DISCHARGE RECORDS

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. Datum of gage is 4,368.59 ft above sea level, supplementary adjustment of 1956. Prior to April 16, 1907, nonrecording gages at several sites in vicinity of present site at various datums. May to December 1907 reference point on railroad bridge. January 1932 to December 1954, October 1958 to August 17, 1959, water-stage recorder at site 1,200 ft upstream at datum 5.59 ft higher.

REMARKS.--Records fair, except for periods of 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, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station.

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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 566 ft³/s, February 22, gage height, 2.88 ft; maximum gage height, 2.94 ft, April 6, backwater; minimum daily discharge, 28 ft³/s, June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e60	97	188	162	126	297	307	239	270	95	51	64
2	e60	92	206	164	121	294	465	191	258	81	51	53
3	e55	102	190	160	113	273	419	190	234	73	53	52
4	e55	92	197	156	111	277	491	192	219	76	54	53
5	52	92	198	163	120	277	418	218	217	72	52	52
6	53	89	197	160	136	381	466	203	168	73	50	45
7	55	84	182	152	135	322	401	201	82	81	48	45
8	58	92	170	147	126	333	376	191	61	78	51	57
9	53	119	159	139	135	328	359	187	78	79	50	59
10	55	148	159	154	136	347	288	194	62	64	53	58
11	57	151	169	151	130	311	240	209	45	70	54	58
12	51	142	153	132	152	298	251	192	33	74	51	58
13	53	137	150	131	174	308	275	194	28	100	53	67
14	53	191	148	146	153	306	209	198	38	123	51	82
15	56	205	148	146	169	314	205	215	168	195	82	101
16	52	182	147	147	171	293	239	221	139	146	97	100
17	52	256	143	142	170	277	245	240	95	105	76	82
18	52	317	148	140	161	286	426	250	107	125	54	104
19	47	237	167	136	182	291	215	263	90	86	50	111
20	51	226	154	134	240	290	224	255	72	70	51	99
21	51	193	152	153	401	295	228	236	69	66	52	101
22	55	194	185	151	454	367	211	240	67	58	50	95
23	57	182	172	155	486	345	183	245	66	52	47	83
24	61	199	169	167	387	297	208	236	69	55	50	61
25	67	186	170	165	290	298	209	275	78	55	51	45
26	91	188	168	154	276	286	213	324	69	55	48	46
27	274	233	171	146	310	284	190	255	74	56	50	45
28	166	217	172	144	295	280	210	238	81	53	52	45
29	139	190	174	144	291	277	198	248	91	54	51	43
30	124	175	174	134	---	290	287	257	101	52	46	42
31	98	---	167	131	---	290	---	265	---	51	48	---
TOTAL	2263	5008	5247	4606	6151	9412	8656	7062	3229	2473	1677	2006
MEAN	73.0	167	169	149	212	304	289	228	108	79.8	54.1	66.9
MAX	274	317	206	167	486	381	491	324	270	195	97	111
MIN	47	84	143	131	111	273	183	187	28	51	46	42
AC-FT	4490	9930	10410	9140	12200	18670	17170	14010	6400	4910	3330	3980

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

347

10350000 TRUCKEE RIVER AT VISTA, NV--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1900 - 1992, BY WATER YEAR (WY)

MEAN	445	586	688	711	881	983	1310	1674	1189	508	344	382
MAX	1304	2650	3705	3327	4066	5420	4979	5643	5740	3007	1476	1529
(WY)	1908	1984	1984	1984	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 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1900 - 1992	
ANNUAL TOTAL	90257		57790			
ANNUAL MEAN	247		158		808	
HIGHEST ANNUAL MEAN					2786	
LOWEST ANNUAL MEAN					158	
HIGHEST DAILY MEAN	1330	Mar 5	491	Apr 4	17400	Feb 1 1963
LOWEST DAILY MEAN	47	Oct 19	28	Jun 13	7.0	Aug 26 1935
ANNUAL SEVEN-DAY MINIMUM	51	Oct 16	47	Sep 24	9.7	Aug 21 1935
INSTANTANEOUS PEAK FLOW			566	Feb 22	18900	Feb 1 1963
INSTANTANEOUS PEAK STAGE			2.94	Apr 6	16.76	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	179000		114600		585600	
10 PERCENT EXCEEDS	513		292		1780	
50 PERCENT EXCEEDS	169		147		505	
90 PERCENT EXCEEDS	66		52		198	

PYRAMID AND WINNEMUCCA LAKES BASIN
10350000 TRUCKEE RIVER AT VISTA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--June 1988 to current year.

WATER TEMPERATURE: June 1988 to current year.

INSTRUMENTATION.--Water temperature recorder since June 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 30, 1992; minimum recorded, 0.5°C, January 26, 27, 1989.

EXTREMES FOR CURRENT PERIOD.--

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 30; minimum recorded, 2.0°C, December 1.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	24.0	18.5	21.0	12.0	9.0	10.5	4.5	2.0	3.5	6.5	5.5	6.0
2	23.0	18.0	20.5	13.0	10.0	11.5	4.0	2.5	3.5	6.0	5.0	5.5
3	23.0	17.5	20.0	13.5	10.5	12.0	5.0	3.0	4.0	6.0	5.0	5.5
4	22.5	17.0	19.5	13.5	12.0	13.0	5.0	3.0	4.0	6.5	5.0	6.0
5	22.5	17.0	19.5	14.5	12.0	13.0	5.0	3.5	4.5	6.5	5.5	6.0
6	22.5	18.0	20.0	14.5	12.5	13.5	6.0	4.5	5.0	7.0	5.5	6.0
7	22.0	18.0	20.0	15.0	13.0	14.0	7.0	5.5	6.0	6.5	5.5	6.0
8	22.0	17.0	19.0	14.5	13.5	14.0	6.0	5.0	5.5	6.0	4.0	5.0
9	21.5	17.0	19.0	14.0	13.0	13.5	6.0	4.0	5.0	6.5	4.0	5.0
10	21.5	16.5	19.0	13.0	11.5	12.0	5.5	3.5	4.5	5.0	4.0	4.5
11	21.5	16.0	19.0	12.0	10.5	11.5	5.5	3.5	4.5	5.5	3.5	4.5
12	22.5	18.0	20.0	12.0	10.0	11.0	5.5	4.0	5.0	6.0	4.0	5.0
13	22.0	17.5	19.5	11.5	10.0	10.5	5.5	3.5	5.0	6.0	4.5	5.0
14	22.0	17.5	19.5	10.0	7.0	8.0	6.0	3.5	5.0	6.0	4.5	5.0
15	21.5	16.5	19.0	8.0	6.5	7.0	6.0	5.0	5.5	6.0	3.5	5.0
16	21.5	17.0	19.0	7.5	5.5	6.5	6.0	4.5	5.5	6.0	4.5	5.0
17	21.0	17.0	18.5	8.0	7.0	7.5	6.0	4.5	5.0	6.5	5.0	5.5
18	22.0	17.5	19.0	7.0	5.5	6.5	7.0	4.5	6.0	6.0	4.0	5.0
19	21.5	17.0	19.0	6.5	5.0	5.5	6.0	4.0	5.0	6.0	4.0	5.0
20	20.5	17.0	18.5	8.0	6.0	7.0	5.0	3.0	4.0	6.5	4.0	5.0
21	20.5	16.0	18.0	8.5	7.0	8.0	5.5	3.5	4.0	6.5	4.0	5.0
22	18.0	15.5	16.5	7.5	6.0	6.5	5.0	3.0	4.0	6.0	4.0	5.0
23	17.0	13.5	15.5	7.0	5.0	6.0	5.0	3.5	4.0	6.0	3.5	4.5
24	17.0	14.0	15.0	7.5	5.0	6.5	5.0	3.5	4.0	6.0	3.5	5.0
25	15.5	14.0	14.5	8.0	6.0	7.0	5.5	3.5	4.5	7.5	4.5	6.0
26	15.0	12.5	14.0	8.0	6.0	7.0	5.5	3.0	4.5	8.0	6.0	7.0
27	12.5	7.5	9.5	7.5	6.0	6.5	6.5	4.5	5.5	7.5	5.5	7.0
28	10.0	8.0	9.0	6.5	4.5	5.5	6.5	5.5	6.0	8.5	6.5	7.5
29	10.0	9.0	9.5	5.5	3.5	4.0	7.0	5.5	6.5	8.0	5.5	7.0
30	10.0	8.0	9.0	4.5	3.0	3.5	7.5	6.0	7.0	7.5	5.5	6.5
31	11.0	7.5	9.0	---	---	---	7.5	6.0	7.0	7.5	5.5	6.5
MONTH	24.0	7.5	17.0	15.0	3.0	8.9	7.5	2.0	4.9	8.5	3.5	5.6

349

10350000 TRUCKEE RIVER AT VISTA, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.5	6.0	7.0	11.0	8.0	9.5	14.5	9.5	12.0	17.0	12.5	14.5
2	8.5	5.5	7.0	9.5	8.0	9.0	14.5	10.0	12.0	18.5	13.5	16.0
3	8.0	5.5	7.0	10.5	8.0	9.5	15.0	11.0	13.0	19.5	14.0	16.5
4	8.0	5.0	7.0	10.5	7.0	9.0	12.0	10.0	11.0	20.0	15.0	18.0
5	7.5	6.0	7.0	10.0	8.0	9.0	12.5	8.5	10.5	20.0	16.0	18.0
6	8.0	6.0	6.5	9.5	7.5	8.5	12.5	8.0	10.0	21.0	16.0	18.5
7	9.5	7.5	8.5	9.5	6.0	8.0	13.5	8.5	11.0	20.5	17.5	19.0
8	10.5	8.0	9.5	10.0	6.5	8.5	14.5	10.0	12.5	21.0	16.5	18.5
9	10.0	8.0	9.0	10.5	6.5	9.0	14.5	10.5	12.5	19.5	15.5	17.5
10	9.5	8.0	9.0	10.5	7.0	9.0	13.5	11.0	12.5	20.0	15.0	17.5
11	10.5	8.0	9.0	11.0	7.0	9.5	15.0	11.0	13.0	20.0	16.0	18.0
12	9.0	7.5	8.5	11.5	7.5	10.0	13.5	11.5	12.5	19.5	16.0	18.0
13	9.0	6.5	8.0	12.0	8.0	10.5	15.0	11.0	13.0	20.5	16.0	18.5
14	9.5	7.0	8.5	12.0	8.5	10.5	16.0	11.5	13.5	20.5	17.0	19.0
15	9.0	7.5	8.0	11.5	8.0	10.0	14.5	12.0	13.5	20.5	16.0	18.5
16	8.0	6.5	7.0	10.0	8.5	9.0	13.5	10.5	12.5	19.0	17.0	18.0
17	8.0	6.0	7.0	11.0	7.5	9.0	15.5	12.5	14.0	20.5	16.0	18.0
18	7.5	6.5	7.0	11.5	7.5	9.5	14.5	10.5	13.0	20.5	16.5	18.5
19	8.0	6.0	7.0	11.0	7.0	9.0	15.5	10.5	13.0	20.5	16.5	18.5
20	10.0	7.5	9.0	11.0	8.0	9.5	15.5	11.5	14.0	19.0	15.0	17.0
21	9.0	7.5	8.5	11.5	8.0	10.0	16.5	12.0	14.0	19.5	15.0	17.5
22	9.5	7.5	8.5	10.5	8.0	9.0	15.5	11.5	13.5	20.5	16.0	18.0
23	8.0	5.5	7.0	11.5	7.5	9.5	15.0	10.5	13.0	21.0	16.5	18.5
24	8.5	5.0	7.0	11.5	8.0	10.5	16.5	12.0	14.0	22.5	17.5	20.0
25	10.0	6.5	8.5	12.5	9.0	11.0	18.5	13.0	16.0	21.5	19.0	20.5
26	10.5	7.5	9.0	13.5	10.0	11.5	17.5	14.5	16.0	21.5	17.0	19.5
27	11.0	7.0	9.0	13.5	9.0	11.5	19.0	14.0	16.5	22.0	18.0	20.0
28	11.0	8.0	9.5	14.5	10.0	12.5	20.0	15.0	17.5	21.5	18.5	20.5
29	10.5	8.0	9.5	14.0	10.5	12.0	20.0	16.5	18.0	22.5	18.0	20.0
30	---	---	---	12.0	10.5	11.0	16.5	14.0	15.0	23.0	19.5	21.0
31	---	---	---	13.0	10.0	11.5	---	---	---	23.5	19.5	21.5
MONTH	11.0	5.0	8.0	14.5	6.0	9.9	20.0	8.0	13.4	23.5	12.5	18.5
	JUNE			JULY			AUGUST			SEPTEMBER		
1	23.0	20.0	22.0	23.0	17.0	20.0	28.5	21.5	24.0	25.0	20.0	22.5
2	24.0	20.5	22.0	23.5	18.5	21.0	27.5	21.5	24.0	26.0	20.5	22.5
3	24.5	21.0	22.5	24.0	19.5	22.0	27.5	21.0	23.5	25.0	20.5	22.0
4	23.5	21.0	22.5	25.0	20.5	22.5	27.5	21.0	23.5	25.5	19.5	22.0
5	23.0	20.0	22.0	25.0	20.0	22.0	28.0	21.0	23.5	25.0	20.0	22.0
6	23.5	20.0	22.0	23.0	19.5	21.0	28.0	20.5	23.5	26.5	19.5	22.0
7	23.5	20.5	22.0	24.5	18.5	21.5	28.0	20.5	23.5	25.5	19.0	22.0
8	25.0	20.5	22.5	25.5	20.0	22.5	27.5	20.5	23.5	25.5	20.0	22.0
9	24.5	20.5	22.5	26.0	20.0	22.5	28.0	21.0	24.0	25.0	19.5	22.0
10	23.5	20.0	22.0	26.5	20.5	23.0	28.5	22.5	25.0	24.5	19.5	21.5
11	25.0	20.5	22.5	25.0	21.0	23.0	28.5	23.0	25.0	24.5	19.5	21.5
12	21.0	17.5	19.5	26.0	21.5	23.0	28.5	23.5	25.0	25.0	18.0	21.0
13	21.5	17.0	18.5	26.5	21.5	24.0	27.5	22.5	24.5	22.5	19.0	20.5
14	19.0	16.5	18.0	27.0	22.0	23.5	28.5	22.5	24.5	22.0	18.5	20.0
15	17.5	15.0	16.5	25.5	21.5	23.0	27.0	23.0	24.5	21.5	17.5	19.0
16	21.5	15.0	18.0	26.0	22.0	24.0	28.0	23.0	25.0	22.0	18.0	19.5
17	22.0	18.0	20.0	25.0	22.0	23.5	27.5	23.0	25.0	23.0	19.0	20.5
18	21.5	18.0	19.5	25.0	20.5	23.0	28.5	22.5	25.0	22.5	18.5	20.0
19	24.0	18.0	21.0	25.5	20.5	23.0	28.0	22.0	24.5	22.5	18.0	20.0
20	25.5	20.0	22.5	25.0	20.5	22.5	27.5	22.0	24.0	23.0	18.5	20.5
21	25.0	20.0	22.5	26.0	20.0	22.5	26.0	20.5	23.0	23.0	19.0	20.5
22	26.0	21.0	23.5	24.5	20.0	22.0	25.0	19.5	21.5	23.5	19.5	21.0
23	25.0	21.5	23.0	26.5	19.0	22.5	25.5	19.5	22.0	23.5	20.0	21.0
24	26.0	21.0	23.0	27.5	20.5	23.5	24.5	20.0	22.0	22.0	19.0	20.0
25	24.0	20.5	22.0	27.5	21.0	24.0	26.5	20.0	22.5	24.0	18.0	20.5
26	26.5	20.0	23.0	28.0	22.0	24.5	26.0	19.5	22.5	24.0	18.0	20.5
27	26.5	21.0	23.5	29.0	22.0	24.5	26.5	20.0	22.5	25.0	18.5	21.0
28	23.0	20.0	21.5	28.5	21.5	24.5	26.5	20.5	23.0	25.0	19.0	21.5
29	20.5	18.0	19.0	29.0	22.0	25.0	26.0	21.5	23.0	24.5	19.5	21.5
30	22.0	16.5	19.0	29.5	22.5	25.5	27.0	21.0	23.5	24.0	19.5	21.5
31	---	---	---	28.5	22.0	24.5	27.0	21.0	23.5	---	---	---
MONTH	26.5	15.0	21.3	29.5	17.0	23.0	28.5	19.5	23.7	26.5	17.5	21.1
YEAR	29.5	2.0	14.6									

PYRAMID AND WINNEMUCCA LAKES BASIN

10350400 TRUCKEE RIVER BELOW TRACY, NV

LOCATION.--Lat 39°33'52", long 119°31'02", in NW 1/4 NE 1/4 sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank, upstream side of bridge, 200 ft downstream from Tracy powerplant, 13 mi east of Sparks, and at ml 40.62, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,590 mi².

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,238.15 ft above sea level (levels by S.E.A. Engineers, Sparks, Nev.).

REMARKS.--No estimated daily discharges. Records fair. 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 480 ft³/s, April 2, 4, 5, gage height, 4.70 ft³/s; maximum gage height, 4.75 ft, May 26, (backwater from moss); minimum daily discharge, 36 ft³/s, July 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	90	169	166	137	302	309	226	247	71	49	53
2	51	92	183	167	140	303	438	188	231	63	46	57
3	49	97	181	162	137	290	409	170	208	55	49	53
4	46	98	180	157	138	289	453	181	177	52	46	56
5	44	93	181	158	144	298	421	197	184	51	51	55
6	44	95	179	163	151	349	420	204	185	47	48	52
7	42	92	176	155	166	334	409	189	100	54	50	45
8	43	92	167	155	158	321	373	198	72	56	47	45
9	44	103	158	147	158	326	350	194	68	58	49	54
10	42	136	155	147	166	328	327	202	75	51	50	53
11	46	146	167	156	161	311	264	207	64	53	56	55
12	46	138	156	141	165	295	264	211	55	56	58	57
13	45	125	151	136	195	297	279	208	50	73	58	58
14	47	153	150	144	179	297	261	202	51	93	64	70
15	47	186	148	148	181	307	222	226	87	160	67	86
16	48	172	147	149	192	307	228	236	121	150	120	93
17	45	190	146	150	194	287	228	256	67	104	87	84
18	47	275	146	148	188	291	387	273	63	113	71	87
19	46	215	159	143	195	291	239	289	76	87	54	94
20	43	203	155	140	232	292	202	297	59	69	46	93
21	45	192	149	154	345	297	208	277	51	60	44	93
22	45	180	171	159	383	334	204	269	50	51	43	93
23	46	177	171	153	439	359	179	274	40	43	47	87
24	48	185	165	161	372	313	179	265	40	39	45	76
25	62	179	159	172	310	300	189	274	55	36	52	60
26	59	177	159	163	275	303	188	361	53	36	56	54
27	190	196	163	159	306	295	184	275	47	40	54	51
28	180	207	160	159	302	291	178	249	58	45	53	48
29	137	186	165	159	298	296	181	243	52	45	52	44
30	118	167	171	156	---	302	231	256	71	48	52	43
31	95	---	171	150	---	310	---	250	---	50	40	---
TOTAL	1943	4637	5058	4777	6407	9515	8404	7347	2757	2009	1704	1949
MEAN	62.7	155	163	154	221	307	280	237	91.9	64.8	55.0	65.0
MAX	190	275	183	172	439	359	453	361	247	160	120	94
MIN	42	90	146	136	137	287	178	170	40	36	40	43
AC-FT	3850	9200	10030	9480	12710	18870	16670	14570	5470	3980	3380	3870

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1992, BY WATER YEAR (WY)

	MEAN	417	652	760	731	880	1062	1167	1522	1038	544	384	408
MAX	915	2820	3908	3328	3865	4956	3595	4421	5701	3035	1065	1476	
(WY)	1983	1984	1984	1984	1986	1986	1986	1982	1983	1983	1983	1983	1983
MIN	62.2	79.0	113	131	139	307	207	237	91.9	64.8	55.0	65.0	
(WY)	1978	1978	1991	1991	1991	1992	1977	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1972 - 1992

ANNUAL TOTAL	85239		56507										
ANNUAL MEAN	234		154										
HIGHEST ANNUAL MEAN										802			
LOWEST ANNUAL MEAN										2731			1983
HIGHEST DAILY MEAN	1440	Mar 5	453	Apr 4						154			1992
LOWEST DAILY MEAN	42	Oct 7	36	Jul 25						16000	Feb 19		1986
ANNUAL SEVEN-DAY MINIMUM	44	Oct 4	41	Jul 23						36	Jul 25		1992
INSTANTANEOUS PEAK FLOW			480	Apr 2						41	Jul 23		1992
INSTANTANEOUS PEAK STAGE			4.75	May 26						17500	Feb 19		1986
INSTANTANEOUS LOW FLOW			35	Jun 24						15.20	Feb 19		1986
ANNUAL RUNOFF (AC-FT)	169100		112100							22	Oct 24		1977
10 PERCENT EXCEEDS	442		299							580700			
50 PERCENT EXCEEDS	165		153							1850			
90 PERCENT EXCEEDS	59		47							171			

PYRAMID AND WINNEMUCCA LAKES BASIN
10350500 TRUCKEE RIVER AT CLARK, NV

351

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 mi², approximately.

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1983 to September 1988.

WATER TEMPERATURE: June 1972 to September 1977; June 1978 to current year.

INSTRUMENTATION.--Specific-conductance recorder from October 1983 to September 1988, hourly. 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 current year, hourly.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 626 microsiemens, September 25, 1988; 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.--

WATER TEMPERATURE: Maximum, 28.5°C, August 16, 17; minimum, 1.0°C, November 30, December 1, 21, and January 12.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.5	16.0	18.5	9.0	5.0	7.0	2.5	1.0	1.5	5.0	4.0	4.5
2	20.5	16.0	18.0	10.0	6.5	8.0	4.0	1.5	3.0	4.5	4.0	4.0
3	20.0	13.0	17.0	11.5	8.0	9.5	4.0	2.0	3.0	4.5	3.5	4.0
4	18.5	11.0	15.0	12.0	8.5	10.5	4.5	2.5	3.5	5.5	3.5	4.5
5	18.5	10.0	14.5	13.0	9.0	11.0	4.5	2.0	3.5	5.0	4.0	4.5
6	19.0	12.5	15.5	13.5	10.0	12.0	5.0	3.5	4.0	5.0	3.5	4.5
7	21.0	11.5	15.5	13.5	10.5	12.0	5.0	4.5	5.0	6.0	4.5	5.0
8	19.5	11.5	15.0	13.0	11.0	12.0	5.5	3.5	4.5	4.5	3.0	4.0
9	18.0	11.5	15.0	13.0	11.5	12.0	4.0	2.5	3.5	4.0	2.0	3.0
10	17.5	10.5	14.0	13.0	10.5	12.0	4.0	2.5	3.5	3.5	2.5	3.0
11	17.5	11.5	15.0	11.5	9.5	10.5	4.5	2.5	3.5	3.0	1.5	2.5
12	18.5	14.5	16.0	11.0	9.0	10.0	4.0	2.0	3.0	3.5	1.0	2.5
13	18.0	14.0	16.0	10.5	8.5	9.5	4.0	2.0	3.0	4.0	1.5	3.0
14	17.0	13.5	15.5	9.0	7.0	8.0	4.0	2.5	3.5	5.0	2.5	4.0
15	17.0	12.5	15.0	7.0	5.0	6.5	4.5	2.5	3.5	4.5	3.0	3.5
16	16.5	12.5	14.5	7.0	4.5	6.0	4.0	2.5	3.5	4.5	2.5	3.5
17	16.5	11.0	14.5	7.0	6.5	6.5	3.5	3.0	3.5	4.5	4.0	4.0
18	17.0	12.5	15.0	7.5	6.0	6.5	5.0	3.0	4.0	5.0	2.5	3.5
19	16.5	13.0	15.0	6.5	4.0	5.5	4.5	2.5	3.5	4.0	2.0	3.0
20	15.5	12.5	14.0	7.5	5.5	6.5	3.5	2.0	2.5	4.0	2.0	3.0
21	15.0	11.0	13.0	8.5	6.0	7.0	3.0	1.0	2.0	5.5	3.0	4.0
22	13.0	10.5	12.0	6.5	5.0	5.5	4.0	2.0	3.0	5.0	2.5	4.0
23	10.5	8.0	9.5	6.0	3.5	5.0	3.5	2.0	2.5	4.5	2.5	3.5
24	9.5	8.0	9.0	7.0	4.5	5.5	3.5	1.5	2.5	5.0	3.0	4.0
25	10.0	8.0	9.0	7.5	4.5	6.5	3.5	2.0	3.0	7.0	3.5	5.0
26	10.0	8.5	9.5	7.5	5.5	6.5	4.0	2.5	3.5	7.0	5.0	6.0
27	9.0	7.0	8.5	6.5	5.0	6.0	5.0	3.0	4.0	7.0	4.5	6.0
28	9.0	6.0	7.5	5.5	4.0	5.0	5.5	3.5	4.5	7.5	6.0	6.5
29	8.5	6.5	7.5	4.0	2.5	3.0	5.0	4.5	5.0	7.0	4.5	6.0
30	7.0	4.5	6.0	3.0	1.0	2.0	6.5	4.5	5.5	6.5	4.5	5.5
31	7.5	4.0	6.0	---	---	---	6.0	5.0	5.5	6.0	4.5	5.5
MONTH	21.0	4.0	13.1	13.5	1.0	7.8	6.5	1.0	3.5	7.5	1.0	4.2

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.5	5.0	5.5	11.5	8.5	10.0	15.0	10.0	12.5	17.5	12.5	15.0
2	7.0	4.0	5.5	10.5	8.0	9.5	15.5	10.5	13.0	18.5	13.0	16.0
3	6.5	4.0	5.0	11.0	7.5	9.0	16.0	11.5	13.5	20.0	14.0	17.0
4	6.5	4.0	5.5	11.5	7.5	9.5	13.5	10.0	12.0	21.0	15.5	18.5
5	6.5	4.5	5.5	10.5	8.0	9.5	13.5	9.0	11.0	21.0	16.5	19.0
6	6.5	5.5	6.0	11.0	8.0	9.0	13.0	8.5	11.0	21.5	17.0	19.5
7	8.5	6.5	7.5	10.5	7.0	8.5	14.0	9.5	11.5	21.5	17.5	19.5
8	9.0	7.5	8.5	10.5	6.5	8.0	15.5	10.5	13.0	22.5	17.5	20.0
9	9.0	7.0	8.0	11.5	7.0	9.0	16.0	11.0	13.5	20.5	16.5	18.5
10	9.0	7.0	8.0	12.0	7.0	9.5	14.5	11.5	13.0	21.0	16.0	18.5
11	9.5	7.0	8.5	12.0	7.0	9.5	16.0	11.5	13.5	21.0	16.5	18.5
12	8.5	7.0	7.5	12.5	7.5	10.0	14.0	11.5	12.5	20.5	16.5	18.5
13	9.0	6.5	7.5	13.0	8.0	10.5	15.5	11.0	13.5	21.5	17.0	19.5
14	9.0	6.0	8.0	13.0	9.0	11.0	17.5	12.0	14.5	21.0	18.0	19.5
15	9.0	7.0	8.0	13.0	8.5	10.5	16.0	12.5	14.0	22.0	17.0	19.5
16	8.0	5.5	6.5	11.0	8.5	10.0	15.0	11.0	13.5	20.5	17.5	19.0
17	8.0	5.0	6.5	11.5	7.5	9.5	15.5	12.0	14.0	21.5	16.5	19.0
18	6.5	5.5	6.0	12.5	7.5	10.0	16.0	11.0	13.5	22.0	17.0	19.5
19	7.5	5.0	6.5	12.0	7.0	9.5	16.5	10.5	13.5	19.0	16.0	18.0
20	10.0	7.0	8.5	11.5	8.0	10.0	16.5	12.0	14.5	20.5	15.0	18.0
21	10.5	8.0	9.0	12.5	7.5	10.0	17.5	12.5	15.0	21.0	15.5	18.5
22	10.5	7.5	9.0	10.5	8.5	9.5	16.5	11.5	14.0	21.0	16.5	19.0
23	9.5	6.5	8.0	11.5	7.5	9.5	15.5	10.5	13.5	22.0	17.0	20.0
24	9.5	5.5	7.5	12.5	8.0	10.5	17.0	11.5	14.5	23.5	18.5	21.0
25	10.5	6.0	8.0	13.5	9.0	11.5	19.5	13.0	16.5	23.0	19.5	21.0
26	11.0	6.5	9.0	14.0	9.5	12.0	18.5	14.5	17.0	23.0	19.0	21.0
27	11.5	7.0	9.5	15.5	10.0	12.5	20.0	14.0	17.0	23.0	18.5	20.5
28	12.0	7.5	10.0	15.5	10.0	13.0	21.0	15.5	18.5	23.5	19.5	21.5
29	11.5	8.5	10.0	14.5	11.0	12.5	21.0	16.5	18.5	23.0	19.0	21.0
30	---	---	---	13.0	10.5	11.5	17.0	14.5	16.0	24.0	20.0	22.0
31	---	---	---	14.5	9.5	12.0	---	---	---	25.5	20.5	23.0
MONTH	12.0	4.0	7.5	15.5	6.5	10.2	21.0	8.5	14.0	25.5	12.5	19.3
	JUNE			JULY			AUGUST			SEPTEMBER		
1	25.0	21.0	23.0	21.0	16.0	18.5	26.5	20.5	23.5	22.0	17.0	20.0
2	25.5	21.5	23.5	24.0	18.0	21.0	25.5	20.5	23.0	23.5	18.5	21.0
3	26.0	21.5	24.0	24.5	19.0	22.0	25.0	19.5	22.5	21.5	18.5	20.0
4	25.5	21.0	23.5	23.5	19.5	21.5	25.0	19.5	22.5	21.0	16.0	18.5
5	24.5	21.0	22.5	23.5	17.5	20.5	25.5	19.5	22.5	22.0	17.5	19.5
6	24.5	20.0	22.5	21.0	17.5	19.5	25.0	19.5	22.0	21.5	16.0	19.0
7	24.0	19.5	21.5	24.0	17.0	20.5	24.5	18.5	22.0	21.5	17.0	19.0
8	24.5	19.0	21.5	25.0	18.5	21.5	25.0	19.5	22.0	22.0	16.5	19.5
9	25.0	19.0	22.0	25.0	18.5	22.0	26.0	20.0	23.0	22.5	18.0	20.5
10	24.0	19.0	21.5	25.5	19.5	22.0	27.0	21.5	24.5	22.5	18.5	20.5
11	24.5	19.5	22.0	25.5	19.5	22.5	27.5	22.0	25.0	22.5	18.0	20.0
12	20.0	16.5	18.5	23.5	20.5	22.0	26.5	22.5	24.5	21.0	16.5	19.0
13	19.0	14.0	16.5	26.0	20.0	23.0	26.0	22.0	24.0	20.0	16.5	18.5
14	17.5	14.0	15.5	27.5	21.0	23.5	27.0	22.5	24.5	20.0	15.5	18.0
15	16.0	14.0	15.0	26.0	22.0	24.0	27.5	23.0	25.5	20.5	15.5	18.0
16	20.5	13.5	17.0	26.5	22.5	24.5	28.5	23.5	26.0	21.0	16.0	18.5
17	22.5	17.0	19.5	26.0	22.0	23.5	28.5	23.5	26.0	20.5	16.5	18.5
18	20.5	17.0	18.5	26.0	21.0	23.5	28.0	23.0	25.5	21.5	17.5	19.5
19	24.0	17.5	20.5	25.5	19.5	22.5	26.0	21.0	23.5	21.5	17.5	19.5
20	25.0	19.5	22.5	24.5	19.5	22.0	25.5	20.5	23.0	21.5	16.5	19.5
21	25.5	20.0	23.0	25.0	18.5	21.5	23.0	19.5	21.5	22.0	17.5	19.5
22	26.0	20.5	23.5	24.0	19.0	21.5	21.5	16.5	19.0	22.5	18.0	20.0
23	25.0	21.0	23.0	23.5	17.0	20.5	21.5	16.0	19.0	21.0	18.0	19.5
24	24.5	20.0	22.0	25.0	19.0	22.0	20.5	17.0	19.0	19.0	16.0	17.5
25	23.0	19.0	21.0	26.0	20.0	23.0	22.0	16.0	19.0	18.5	14.0	16.5
26	26.0	19.5	22.5	26.5	20.5	23.5	22.0	17.0	19.5	18.5	14.0	16.5
27	26.0	20.5	23.5	26.5	20.5	23.5	23.5	17.0	20.5	19.5	14.5	17.0
28	23.0	18.0	21.0	27.0	21.0	24.0	24.0	18.5	21.0	20.0	15.0	18.0
29	19.5	16.0	17.5	27.0	20.5	24.0	23.0	19.0	20.5	20.5	15.5	18.5
30	20.5	15.0	17.5	27.5	22.0	24.5	20.5	18.0	19.5	21.0	16.5	19.0
31	---	---	---	27.0	21.5	24.0	21.0	17.0	19.0	---	---	---
MONTH	26.0	13.5	20.8	27.5	16.0	22.3	28.5	16.0	22.3	23.5	14.0	18.9
YEAR	28.5	1.0	13.7									

PYRAMID AND WINNEMUCCA LAKES BASIN

353

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION.--Lat 39°36'25", long 119°18'35", in NW 1/4 NE 1/4 sec.17, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, on left bank, at upstream end of Tunnel No. 3, 2 mi southwest of Wadsworth, and at mi 22.94, 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.--Water-stage recorder. Elevation of gage is 4,200 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 955 ft³/s, June 10, 1970; no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	76	140	135	114	263	244	208	161	38	14	19
2	49	75	159	131	113	263	338	171	160	45	14	34
3	38	81	172	133	110	246	392	149	154	38	14	30
4	26	88	164	128	109	228	404	149	125	24	15	39
5	24	66	168	127	116	237	411	157	118	27	12	36
6	29	59	168	135	126	277	376	165	111	25	10	33
7	31	99	169	129	136	341	402	148	73	24	9.3	28
8	27	90	153	124	135	306	341	164	42	30	10	23
9	22	90	143	122	134	327	296	159	21	30	8.4	24
10	27	104	136	119	142	319	249	159	23	31	7.7	27
11	33	114	143	126	140	308	166	155	28	26	6.9	28
12	39	113	141	123	141	258	145	157	40	30	8.2	28
13	27	106	133	115	170	246	152	143	46	35	7.3	26
14	23	108	134	118	166	242	155	136	33	64	7.2	29
15	2.8	140	129	126	159	262	156	146	44	113	8.5	41
16	2.1	138	128	124	177	263	164	148	89	137	17	49
17	1.5	136	127	130	179	211	183	149	67	106	3.4	50
18	.93	219	127	125	175	214	268	165	56	86	19	36
19	7.7	163	133	124	177	226	274	176	64	87	16	40
20	15	147	144	122	214	224	140	175	50	75	13	50
21	15	145	129	124	336	224	147	168	32	62	7.5	56
22	16	130	141	132	392	260	152	153	19	37	6.3	59
23	20	131	152	130	444	358	133	156	16	12	5.6	54
24	46	134	144	130	395	311	115	151	14	3.7	6.4	46
25	62	139	140	136	320	258	137	150	17	1.4	6.4	38
26	68	138	134	135	204	274	145	177	23	.55	8.3	24
27	94	147	136	131	258	250	153	176	21	.11	26	12
28	167	173	135	129	277	218	139	149	23	.00	31	9.9
29	107	157	133	128	258	226	160	147	27	5.3	32	9.3
30	98	147	137	127	---	220	166	149	33	7.1	33	9.7
31	87	---	140	123	---	247	---	150	---	13	28	---
TOTAL	1250.03	3653	4432	3941	5817	8107	6703	4905	1730	1213.16	411.4	987.9
MEAN	40.3	122	143	127	201	262	223	158	57.7	39.1	13.3	32.9
MAX	167	219	172	136	444	358	411	208	161	137	33	59
MIN	.93	59	127	115	109	211	115	136	14	.00	3.4	9.3
AC-FT	2480	7250	8790	7820	11540	16080	13300	9730	3430	2410	816	1960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	MEAN	273	298	246	178	178	234	314	395	307	235	222	234
MAX	522	535	660	520	633	722	870	822	822	458	339	340	340
(WY)	1976	1969	1967	1967	1967	1989	1989	1978	1970	1971	1967	1969	1969
MIN	40.3	39.5	.000	.000	.000	.000	72.0	157	57.7	39.1	13.3	32.9	32.9
(WY)	1992	1985	1976	1971	1971	1971	1975	1986	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR		FOR 1992 WATER YEAR		WATER YEARS 1967 - 1992	
ANNUAL TOTAL	70748.03		43150.49			
ANNUAL MEAN	194		118		260	
HIGHEST ANNUAL MEAN					397	
LOWEST ANNUAL MEAN					116	
HIGHEST DAILY MEAN	930		444		955	
LOWEST DAILY MEAN	.93		.00		.00	
ANNUAL SEVEN-DAY MINIMUM	6.4		2.6		.00	
ANNUAL RUNOFF (AC-FT)	140300		85590		188200	
10 PERCENT EXCEEDS	390		248		518	
50 PERCENT EXCEEDS	140		126		233	
90 PERCENT EXCEEDS	37		13		20	

PYRAMID AND WINNEMUCCA LAKES BASIN

10351400 TRUCKEE CANAL NEAR HAZEN, NV

LOCATION (REVISED).--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 sea level, 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 fair. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s, February 3, 1967; no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	88	137	128	117	262	271	131	78	.18	.35	.00
2	2.3	82	139	123	108	262	284	95	97	.08	.27	.00
3	2.3	81	154	123	106	262	364	82	71	.08	.17	.00
4	2.0	81	152	121	105	252	359	91	65	.08	.27	.00
5	1.7	81	152	117	105	250	396	71	46	.12	.34	.00
6	1.6	69	152	120	113	253	369	73	41	.15	.35	.00
7	1.6	23	153	125	125	297	367	63	31	.19	.18	.00
8	1.6	41	147	115	133	296	354	36	11	.24	.01	.00
9	1.7	66	135	113	125	289	316	38	9.3	.27	.00	.00
10	1.6	81	126	108	129	289	298	93	6.4	.27	.00	.00
11	1.6	107	122	110	135	294	262	105	3.7	.79	.00	.00
12	1.6	118	130	116	131	283	216	43	2.4	.36	.00	.00
13	1.6	108	123	107	142	268	170	45	2.1	.56	.00	.00
14	29	98	116	104	160	268	148	50	2.3	.29	.00	.00
15	125	136	115	107	152	267	131	77	1.9	.23	.00	1.8
16	23	150	113	108	156	276	149	93	1.5	.15	.00	.22
17	1.5	146	112	113	162	275	158	83	4.0	1.2	.00	1.9
18	1.0	190	111	116	163	261	178	104	2.8	.16	.00	1.6
19	.84	226	111	113	161	263	294	105	1.8	.12	.00	2.3
20	.64	181	120	112	172	265	181	135	1.6	.14	.00	1.7
21	1.1	174	119	110	240	263	137	127	2.1	.14	.00	3.9
22	1.6	158	114	120	326	264	116	87	1.7	.18	.00	.14
23	1.5	150	135	125	362	295	126	77	1.2	.72	.00	.27
24	1.3	146	134	122	387	314	103	86	2.1	.57	.00	.37
25	1.1	152	129	128	341	284	66	93	2.1	.47	.00	.40
26	1.1	149	122	136	284	275	65	124	.59	.73	.00	3.5
27	13	149	120	131	254	277	78	152	.37	.64	.00	2.0
28	209	164	122	127	267	271	69	86	.06	.36	.00	.47
29	145	165	119	127	267	260	56	71	.03	.35	.00	.24
30	104	149	122	125	---	261	102	99	.26	.38	.00	.20
31	97	---	130	122	---	264	---	63	---	.36	.00	---
TOTAL	780.78	3709	3986	3672	5428	8460	6183	2678	490.31	10.56	1.94	21.01
MEAN	25.2	124	129	118	187	273	206	86.4	16.3	.34	.063	.70
MAX	209	226	154	136	387	314	396	152	97	1.2	.35	3.9
MIN	.64	23	111	104	105	250	56	36	.03	.08	.00	.00
AC-FT	1550	7360	7910	7280	10770	16780	12260	5310	973	21	3.8	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1992, BY WATER YEAR (WY)

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	217	265	230	168	169	217	257	278	187	102	96.7	146														
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	11.2	8.40	.000	.000	.000	.000	28.2	43.7	16.3	.34	.063	.70														
(WY)	1985	1985	1976	1971	1971	1971	1975	1986	1992	1992	1992	1992														

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1967 - 1992

ANNUAL TOTAL	58128.58	35420.60	
ANNUAL MEAN	159	96.8	194
HIGHEST ANNUAL MEAN			330
LOWEST ANNUAL MEAN			41.4
HIGHEST DAILY MEAN	814	Mar 6	396
LOWEST DAILY MEAN	.56	Aug 13	.00
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 7	.00
ANNUAL RUNOFF (AC-FT)	115300	70260	140800
10 PERCENT EXCEEDS	353	264	472
50 PERCENT EXCEEDS	122	94	120
90 PERCENT EXCEEDS	1.8	.00	4.8

PYRAMID AND WINNEMUCCA LAKES BASIN

355

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 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1734.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft above sea level, 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, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 105 ft³/s, October 18, gage height, 2.05 ft; minimum daily, 4.0 ft³/s, October 7-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	7.7	11	8.4	7.4	9.4	e10	24	21	18	8.3	9.0
2	e5.0	7.3	10	8.4	7.1	9.5	9.7	23	21	18	8.0	9.7
3	e5.0	7.1	10	8.5	6.7	9.1	9.9	23	20	19	8.4	5.6
4	e5.0	7.4	9.9	8.6	6.4	8.8	10	24	19	19	12	5.1
5	e5.0	7.4	9.9	8.8	6.4	8.8	10	24	19	19	29	6.3
6	e5.0	8.3	9.8	8.9	6.4	9.3	10	24	19	19	28	6.4
7	e4.0	9.4	9.6	8.8	6.1	9.5	11	25	17	20	28	7.7
8	e4.0	10	9.6	9.0	5.9	8.8	10	25	16	19	28	9.0
9	e4.0	10	9.6	8.7	5.9	8.6	19	25	15	17	28	21
10	e4.0	12	10	8.7	6.0	8.8	27	26	15	17	29	34
11	5.3	12	11	8.8	5.9	8.2	26	26	15	16	34	36
12	5.7	13	10	8.8	6.1	8.4	26	27	15	16	33	30
13	6.8	13	10	8.7	6.6	8.7	31	28	22	15	33	22
14	36	14	9.9	8.8	6.2	8.3	35	26	28	13	34	22
15	56	15	9.6	9.2	6.1	8.0	35	26	16	11	34	22
16	58	15	9.5	9.0	6.3	7.4	35	26	17	13	34	21
17	50	15	9.4	9.2	6.4	7.3	35	26	17	21	31	20
18	37	16	8.9	8.7	6.5	7.8	38	25	16	24	31	21
19	18	9.7	9.1	8.5	6.5	8.3	37	25	16	23	32	22
20	12	9.2	9.2	8.9	6.9	8.1	35	24	16	28	34	22
21	11	9.0	9.1	8.9	8.8	8.2	35	24	16	38	35	22
22	9.6	8.8	9.0	8.8	11	9.1	35	25	17	42	35	23
23	9.4	8.9	8.9	8.7	14	11	35	25	17	42	36	24
24	8.8	8.8	8.4	9.0	13	10	35	25	17	44	36	23
25	8.0	8.9	8.3	8.9	11	9.8	35	24	18	46	36	24
26	7.6	9.2	8.4	8.5	10	9.9	35	24	18	45	22	21
27	9.9	10	7.9	8.4	10	e10	36	23	17	42	6.8	17
28	12	11	7.7	8.0	9.8	e10	32	22	17	36	6.7	19
29	8.8	12	8.0	7.9	9.4	e10	24	22	17	30	7.2	21
30	8.2	11	8.4	7.5	---	e10	23	23	18	20	7.6	21
31	8.0	---	8.4	7.6	---	e10	---	22	---	8.5	7.6	---
TOTAL	432.1	316.1	288.5	267.6	224.8	279.1	784.6	761	532	758.5	772.6	566.8
MEAN	13.9	10.5	9.31	8.63	7.75	9.00	26.2	24.5	17.7	24.5	24.9	18.9
MAX	58	16	11	9.2	14	11	38	28	28	46	36	36
MIN	4.0	7.1	7.7	7.5	5.9	7.3	9.7	22	15	8.5	6.7	5.1
AC-FT	857	627	572	531	446	554	1560	1510	1060	1500	1530	1120

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1992, BY WATER YEAR (WY)

	MEAN	74.2	160	329	369	500	515	701	956	608	141	63.4	70.7
MAX	776	2629	3722	3205	3340	4054	3395	4587	5099	2478	716	1071	
(WY)	1983	1984	1984	1984	1986	1986	1952	1952	1983	1983	1975	1983	
MIN	1.46	.13	.22	.24	1.22	.57	6.93	16.6	11.4	6.87	5.39	4.37	
(WY)	1962	1956	1962	1962	1961	1962	1931	1931	1960	1931	1931	1931	

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1918 - 1992
ANNUAL TOTAL	8344.7	5983.7	
ANNUAL MEAN	22.9	16.3	371
HIGHEST ANNUAL MEAN			2430
LOWEST ANNUAL MEAN			6.16
HIGHEST DAILY MEAN	475	Mar 5	15000
LOWEST DAILY MEAN	3.6	Sep 15	.00
ANNUAL SEVEN-DAY MINIMUM	3.8	Mar 20	.00
INSTANTANEOUS PEAK FLOW			18400
INSTANTANEOUS PEAK STAGE			14.26
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	16550	11870	268700
10 PERCENT EXCEEDS	46	34	1130
50 PERCENT EXCEEDS	11	11	29
90 PERCENT EXCEEDS	4.5	6.9	4.0

PYRAMID AND WINNEMUCCA LAKES BASIN

10351600 TRUCKEE RIVER BELOW DERBY DAM NEAR WADSWORTH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder since June 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 15, 1992; minimum, freezing point on many days in winter months in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 15; minimum, 0.5°C, December 1, 21.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	22.0	13.5	17.5	10.0	3.5	6.0	2.5	.5	1.5	5.5	3.5	4.0
2	22.0	13.5	17.5	11.0	5.0	7.5	4.5	1.0	2.5	5.0	2.5	3.5
3	21.0	13.0	17.0	12.0	7.0	9.0	5.5	1.5	3.0	5.0	2.5	3.5
4	19.5	11.5	15.5	12.5	7.5	9.5	5.0	1.5	3.0	6.0	2.5	4.0
5	19.5	11.5	15.0	13.5	8.0	10.0	5.0	2.0	3.0	6.0	3.0	4.0
6	20.5	12.0	16.0	14.0	9.0	11.0	5.0	2.5	4.0	7.0	2.5	4.0
7	20.0	12.0	15.5	14.0	9.5	11.5	5.5	3.5	4.5	7.0	3.0	4.5
8	20.5	11.5	15.5	13.5	10.5	12.0	5.5	2.5	3.5	5.5	2.5	3.5
9	19.0	11.0	15.0	13.0	11.0	12.0	4.5	2.0	2.5	4.5	1.5	2.5
10	19.0	11.0	15.0	13.5	9.0	11.0	4.5	1.5	3.0	3.5	1.5	2.5
11	19.5	12.0	15.5	12.5	8.5	10.5	5.0	2.0	3.0	3.0	1.0	2.0
12	20.5	13.0	16.0	12.0	7.5	9.5	4.5	1.5	2.5	3.5	1.0	2.0
13	19.5	12.5	15.5	11.0	7.5	8.5	4.5	1.5	2.5	4.0	1.0	2.5
14	18.0	11.5	15.0	9.0	5.5	7.0	4.5	2.0	3.0	5.0	2.0	3.0
15	17.5	12.5	15.0	8.0	4.5	6.0	5.0	2.0	3.0	5.0	2.0	3.5
16	17.0	13.0	15.0	8.0	3.0	5.5	4.5	2.0	2.5	5.5	2.0	3.5
17	17.0	12.5	15.0	8.0	5.5	6.5	4.0	2.0	3.0	5.5	3.0	4.0
18	17.5	12.5	15.0	6.5	5.0	5.5	6.5	2.5	3.5	5.5	2.0	3.0
19	17.0	13.0	15.0	7.5	3.5	5.0	4.0	1.5	2.5	4.5	1.5	2.5
20	16.5	11.5	13.5	8.5	5.0	6.5	3.5	1.5	2.0	4.5	1.0	2.5
21	16.0	10.5	13.0	8.5	5.5	6.5	3.0	.5	1.5	6.0	2.0	3.0
22	13.5	9.0	11.5	7.0	3.5	4.5	3.5	1.5	2.0	5.5	2.0	3.0
23	11.5	7.0	9.5	6.5	2.5	4.0	4.0	1.5	2.5	5.0	1.5	3.0
24	11.5	7.0	8.5	7.5	3.5	5.0	3.5	1.5	2.0	6.0	2.0	3.5
25	11.5	7.0	9.0	8.0	4.5	6.0	4.0	1.5	2.5	7.5	2.5	4.5
26	11.0	8.0	9.0	8.5	5.0	6.0	4.5	1.5	3.0	8.0	3.5	5.0
27	9.5	5.5	7.5	6.5	4.0	5.5	5.5	2.5	3.5	8.5	3.0	5.0
28	10.0	6.0	8.0	6.5	3.0	4.0	6.0	3.0	4.0	8.5	4.5	6.0
29	9.5	5.5	7.0	4.5	1.5	3.0	5.5	3.5	4.5	8.5	3.0	5.0
30	8.5	3.5	5.5	3.5	1.0	1.5	6.5	3.5	4.5	8.0	3.0	5.0
31	8.5	2.5	5.0	---	---	---	7.0	3.5	4.5	7.5	3.0	5.0
MONTH	22.0	2.5	13.0	14.0	1.0	7.2	7.0	.5	3.0	8.5	1.0	3.6

PYRAMID AND WINNEMUCCA LAKES BASIN

357

10351600 TRUCKEE RIVER BELOW DERBY DAM NEAR WADSWORTH, NV--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	8.0	4.0	5.5	14.0	8.0	10.0	---	---	---	18.0	13.5	15.5
2	8.5	2.5	4.5	10.0	8.0	9.0	---	---	---	19.0	13.5	16.0
3	7.5	2.5	4.0	12.5	7.0	9.5	18.5	10.5	14.0	20.0	14.0	17.0
4	8.5	2.5	4.5	13.0	6.0	9.5	16.0	9.0	12.0	21.0	15.5	18.0
5	8.5	3.0	5.0	12.5	8.0	9.5	16.0	7.5	11.0	22.0	16.5	19.0
6	7.5	4.0	5.5	12.5	7.0	9.5	15.5	7.0	11.0	23.0	17.0	19.5
7	10.0	6.0	7.5	12.5	6.0	8.5	16.0	7.5	12.0	23.0	17.0	19.5
8	11.0	6.0	8.0	13.0	5.5	8.5	17.0	10.0	13.0	23.5	17.0	20.0
9	10.0	5.5	7.5	13.0	5.5	9.0	17.0	10.5	13.5	22.0	16.0	18.5
10	11.0	6.0	7.5	13.5	5.5	9.0	15.5	12.0	13.5	22.5	15.0	18.5
11	11.5	6.0	8.0	13.5	6.0	9.5	16.0	12.0	14.0	22.5	15.0	18.5
12	9.0	6.0	7.5	14.0	6.5	10.0	14.0	12.0	13.0	22.5	15.5	18.5
13	9.5	5.5	7.0	14.5	7.5	10.5	15.5	12.0	13.5	23.5	16.5	19.5
14	11.5	5.0	7.5	15.0	8.0	10.5	17.0	13.0	14.5	23.0	17.0	19.5
15	9.5	5.0	7.0	14.0	8.0	10.0	16.0	13.0	14.5	24.0	15.0	19.5
16	8.5	4.5	6.0	14.5	8.0	10.0	15.0	12.5	13.5	22.5	17.0	19.5
17	9.5	4.0	6.0	13.5	6.5	9.5	16.0	13.0	14.0	23.0	16.0	19.5
18	6.5	4.5	5.5	14.5	6.0	10.0	16.0	12.0	14.0	23.0	16.5	19.5
19	8.0	4.0	6.0	14.0	6.0	10.0	16.0	11.5	14.0	20.5	14.5	17.5
20	12.0	6.0	8.0	13.0	7.5	10.0	16.5	13.0	14.5	21.5	13.5	17.5
21	11.0	7.0	9.0	14.0	7.0	10.0	17.0	13.5	15.0	23.0	15.5	19.0
22	11.5	7.0	9.0	12.0	7.5	9.0	16.0	12.5	14.0	23.0	15.5	19.5
23	11.5	5.5	8.0	14.0	6.5	10.0	15.5	12.0	13.5	24.5	16.0	20.0
24	11.0	4.5	7.5	14.5	7.0	10.5	16.0	12.5	14.5	25.5	18.0	21.5
25	12.0	5.0	8.0	15.5	9.0	11.5	18.5	14.0	16.0	25.0	18.0	21.0
26	13.0	6.0	9.0	14.5	9.5	12.0	18.0	15.0	16.5	24.5	18.0	21.0
27	13.5	6.5	9.5	---	---	---	19.0	14.5	16.5	25.0	18.5	21.5
28	13.5	7.0	10.0	---	---	---	20.5	15.5	17.5	25.5	18.5	21.5
29	12.5	8.0	10.0	---	---	---	21.0	15.5	18.0	25.5	17.5	21.5
30	---	---	---	---	---	---	17.5	14.5	16.0	26.0	19.5	22.5
31	---	---	---	---	---	---	---	---	---	27.5	20.0	23.5
MONTH	13.5	2.5	7.2	---	---	---	---	---	---	27.5	13.5	19.5
JUNE			JULY			AUGUST			SEPTEMBER			
1	27.5	20.0	23.5	21.5	15.5	18.5	29.0	21.0	24.5	23.5	16.5	19.5
2	27.5	20.5	24.0	25.5	17.0	21.0	27.5	20.0	23.5	24.0	18.0	20.5
3	28.0	21.0	24.0	26.5	19.0	22.5	26.5	19.5	22.5	23.5	18.0	20.0
4	27.5	20.0	23.5	25.0	18.5	21.5	27.0	19.5	22.5	22.5	15.0	18.5
5	27.0	20.0	23.0	25.0	17.5	20.5	27.5	19.5	23.0	22.5	16.0	19.0
6	26.5	19.5	22.5	23.0	17.5	20.0	27.0	19.5	22.5	23.0	15.5	19.0
7	25.5	18.0	21.0	26.0	17.0	21.0	26.5	19.5	22.5	22.5	15.5	18.5
8	26.5	17.5	21.5	27.0	18.5	22.5	26.5	19.5	22.5	23.5	15.5	19.0
9	27.0	18.0	22.0	27.5	18.0	22.5	28.0	20.5	23.5	23.5	17.0	20.5
10	25.5	18.0	21.5	27.5	19.0	22.5	28.5	22.0	25.0	23.5	18.0	20.5
11	26.0	19.0	22.0	27.5	19.5	23.0	29.5	22.5	25.5	23.0	18.0	20.0
12	21.5	15.5	18.0	26.5	20.5	23.0	27.5	23.0	25.0	22.5	16.5	19.0
13	20.5	13.5	16.5	27.5	19.5	23.0	27.0	22.0	24.5	20.0	16.0	18.5
14	19.5	14.0	16.5	28.5	20.5	24.0	27.5	22.5	24.5	19.5	15.5	17.5
15	17.5	14.0	15.0	30.0	22.0	25.5	27.5	23.0	25.0	21.0	15.5	18.0
16	22.0	12.0	17.0	29.5	22.0	25.0	28.5	23.5	26.0	21.5	16.0	18.5
17	24.0	16.5	19.5	27.0	22.0	24.5	29.5	23.5	26.0	21.0	17.0	19.0
18	22.5	17.0	18.5	28.0	21.0	24.0	29.0	23.0	25.5	22.5	17.5	19.5
19	25.5	16.5	20.5	27.0	20.0	23.0	27.0	20.5	23.5	22.0	16.5	19.5
20	27.0	19.0	22.5	26.0	20.0	22.5	26.5	20.5	23.0	22.5	17.0	19.5
21	27.5	19.5	23.5	26.5	19.5	22.5	23.0	18.5	21.0	22.5	17.5	19.5
22	28.0	20.5	24.0	25.5	19.5	22.0	22.5	17.0	19.5	22.5	17.5	20.0
23	26.5	19.5	23.0	25.5	18.5	21.5	22.5	16.0	19.0	21.0	18.0	19.0
24	27.0	19.5	22.5	26.5	19.5	22.5	21.5	15.5	18.5	19.5	16.0	17.5
25	24.0	18.0	20.5	27.5	21.0	24.0	22.5	16.0	19.0	18.5	14.5	16.5
26	28.0	18.5	23.0	28.5	21.0	24.0	23.5	16.5	19.5	19.0	14.0	16.5
27	28.5	20.5	24.0	28.5	20.5	24.5	24.0	16.0	20.0	19.5	14.0	17.0
28	23.0	17.5	21.0	28.5	20.5	24.0	25.0	17.0	21.0	20.5	15.0	17.5
29	18.0	15.0	17.0	28.5	20.5	24.5	24.5	19.0	21.0	21.0	15.5	18.0
30	22.5	14.0	17.5	29.5	21.5	25.0	22.0	18.0	19.5	21.0	16.5	19.0
31	---	---	---	29.5	21.0	24.5	22.0	16.0	19.0	---	---	---
MONTH	28.5	12.0	20.9	30.0	15.5	22.9	29.5	15.5	22.5	24.0	14.0	18.8

PYRAMID AND WINNEMUCCA LAKES BASIN

10351700 TRUCKEE RIVER NEAR NIXON, NV
(National Stream-Quality Accounting Network Station)

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 mi².

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 sea level, 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 24, 1955, reached a stage of 14.1 ft, from floodmarks, discharge, 14,000 ft³/s, by flow-over-dam measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 108 ft³/s, March 30, gage height, 3.13 ft; maximum gage height, 3.48 ft, December 1, backwater from ice; minimum daily, 4.5 ft³/s, July 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	24	e31	26	27	27	45	36	21	21	13	22
2	15	24	31	26	24	27	40	31	29	23	16	20
3	15	25	29	26	24	28	38	28	30	23	17	20
4	14	25	29	27	24	29	35	28	25	18	18	22
5	14	25	30	27	24	27	36	25	23	15	19	21
6	16	25	29	27	24	27	37	28	22	18	19	16
7	16	25	30	27	25	27	35	34	17	18	18	15
8	17	25	30	27	24	28	29	32	23	16	15	14
9	18	27	28	27	24	29	27	26	22	13	14	14
10	18	26	29	27	23	28	25	24	19	12	12	8.0
11	17	26	29	27	23	28	25	22	17	9.2	16	8.9
12	17	26	29	27	23	27	28	20	15	6.0	26	10
13	15	24	30	30	24	24	31	18	11	5.7	23	9.0
14	14	25	29	27	23	27	37	18	9.0	11	20	5.2
15	12	27	29	26	24	28	44	20	14	7.4	13	4.8
16	15	28	29	26	25	29	47	19	19	5.4	16	4.8
17	15	29	29	27	24	29	48	18	27	4.5	29	13
18	21	30	27	27	23	30	46	20	24	4.5	39	17
19	23	31	28	30	22	29	49	20	23	4.7	19	20
20	22	32	e28	e28	22	29	46	22	21	7.5	15	20
21	20	31	e27	26	21	26	37	15	25	15	16	19
22	19	30	e27	25	21	27	35	12	26	18	17	20
23	20	30	27	26	23	30	46	10	25	25	19	20
24	21	30	28	25	26	30	65	11	24	30	20	19
25	22	30	28	25	28	28	61	14	20	21	21	23
26	22	31	27	25	28	30	52	16	19	20	21	24
27	22	32	26	25	27	30	44	21	16	19	26	29
28	22	31	26	25	27	31	36	23	17	22	24	31
29	23	30	27	25	27	31	34	23	19	22	22	28
30	24	31	26	24	---	42	37	25	21	23	21	27
31	24	---	26	24	---	50	---	20	---	14	22	---
TOTAL	568	835	878	817	704	912	1195	679	623.0	471.9	606	524.7
MEAN	18.3	27.8	28.3	26.4	24.3	29.4	39.8	21.9	20.8	15.2	19.5	17.5
MAX	24	32	31	30	28	50	65	36	30	30	39	31
MIN	12	24	26	24	21	24	25	10	9.0	4.5	12	4.8
AC-FT	1130	1660	1740	1620	1400	1810	2370	1350	1240	936	1200	1040

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1992, BY WATER YEAR (WY)

MEAN	158	275	444	538	697	705	757	1147	811	274	132	147
MAX	917	2659	3905	3430	3311	4764	3392	4289	5398	2786	816	1172
(WY)	1983	1984	1984	1984	1986	1986	1969	1958	1983	1983	1983	1983
MIN	16.1	19.2	18.2	18.5	20.7	22.4	19.8	21.9	14.8	15.2	16.4	17.5
(WY)	1962	1962	1962	1962	1991	1961	1961	1992	1960	1992	1962	1992

PYRAMID AND WINNEMUCCA LAKES BASIN

359

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued
(National Stream-Quality Accounting Network Station)

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1958 - 1992
ANNUAL TOTAL	11208.7	8813.6	506
ANNUAL MEAN	30.7	24.1	2609
HIGHEST ANNUAL MEAN			24.1
LOWEST ANNUAL MEAN			1983
HIGHEST DAILY MEAN	269 Mar 5	65 Apr 24	14500 Feb 19 1986
LOWEST DAILY MEAN	3.3 Jul 9	4.5 Jul 17	3.3 Jul 9 1991
ANNUAL SEVEN-DAY MINIMUM	8.1 Jul 6	6.2 Jul 13	6.2 Jul 13 1992
INSTANTANEOUS PEAK FLOW		108 Mar 30	16300 Feb 19 1986
INSTANTANEOUS PEAK STAGE		3.13 Mar 30	13.01 Feb 19 1986
ANNUAL RUNOFF (AC-FT)	22230	17480	366500
10 PERCENT EXCEEDS	50	31	1530
50 PERCENT EXCEEDS	26	24	74
90 PERCENT EXCEEDS	17	14	24

PYRAMID AND WINNEMUCCA LAKES BASIN
10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1980 to September 1983.

WATER TEMPERATURE: May 1980 to September 1983, July 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder since July 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction, or probe losing contact with stream due to low stage.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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.--

WATER TEMPERATURE: Maximum, 29.0°C, June 27, July 26, 30, August 11, 16; minimum, freezing point many days during winter months.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION (%)	COLIFORM, FECA, UM-MF (COLS./100 ML)	STREPTOCOCCI, FECA, KF AGAR (COLS. PER 100 ML)
NOV 13...	1200	24	1080	8.4	16.0	9.0	1.0	10.0	102	K2	K20
FEB 21...	1207	21	1100	8.4	16.5	9.0	1.9	9.0	92	K2	K5
MAY 27...	1450	22	1100	8.8	27.5	21.5	2.5	10.0	135	40	67
AUG 12...	1032	34	1130	8.2	30.0	24.0	3.1	5.7	80	95	33

DATE	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)
NOV 13...	260	60	26	120	3	11	185	--	153	150	170
FEB 21...	260	61	26	120	3	8.8	175	1	144	130	180
MAY 27...	220	45	26	120	4	9.6	113	10	109	140	190
AUG 12...	250	53	28	130	4	12	181	--	148	175	175

DATE	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
NOV 13...	0.30	21	646	650	0.88	<0.010	<0.010	<0.050	<0.050	<0.010	<0.010
FEB 21...	0.20	19	680	633	0.92	<0.010	<0.010	<0.050	<0.050	0.010	0.010
MAY 27...	0.30	14	630	611	0.86	<0.010	<0.010	<0.050	<0.050	0.010	0.020
AUG 12...	0.30	24	670	678	0.91	<0.010	<0.010	<0.050	<0.050	0.020	0.020

PYRAMID AND WINNEMUCCA LAKES BASIN

361

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)
NOV 13...	<0.20	0.030	0.030	0.020	<0.010	10	84	<3	7	42
FEB 21...	0.20	0.050	<0.010	0.030	0.010	<10	81	<3	8	45
MAY 27...	0.20	0.030	0.030	0.010	<0.010	<10	66	<3	7	44
AUG 12...	0.40	0.020	0.010	0.020	0.020	<10	93	<3	32	50

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 13...	31	<10	<1	<1	<1.0	590	<6	3	0.20	81
FEB 21...	140	<10	<1	<1	<1.0	580	<6	4	0.23	86
MAY 27...	26	<10	<1	<1	<1.0	540	<6	10	0.59	96
AUG 12...	78	<10	1	<1	<1.0	630	<6	13	1.2	92

K: NON-IDEAL COLONY COUNT

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	21.0	18.0	19.5	8.0	3.5	6.0	.0	.0	.0	3.0	2.0	2.5
2	21.0	15.5	18.0	9.5	5.0	7.0	3.5	.0	1.5	2.5	1.5	2.0
3	20.5	14.5	17.5	11.0	7.0	9.0	4.0	1.0	2.5	2.0	1.0	1.5
4	19.0	13.0	16.0	11.0	7.0	9.0	4.0	.5	2.5	4.0	.5	2.0
5	19.0	12.5	16.0	12.0	8.0	10.0	4.0	1.0	3.0	4.0	2.5	3.0
6	19.5	14.5	17.0	13.0	9.0	11.0	4.0	2.0	3.0	4.5	2.5	3.5
7	19.0	14.5	17.0	13.0	8.5	11.0	4.5	3.5	4.0	4.5	2.5	3.5
8	19.0	14.0	16.5	11.5	9.5	10.5	4.0	1.5	3.0	3.0	.5	2.0
9	18.5	13.5	16.0	12.0	11.0	11.5	3.0	.0	1.5	2.5	.0	1.5
10	19.0	13.5	16.0	12.0	9.0	10.5	3.0	.0	2.0	1.5	.0	1.0
11	18.5	14.0	16.0	11.0	7.0	9.5	3.5	.5	2.0	2.0	.0	1.0
12	19.0	15.0	17.0	10.5	6.5	8.5	3.0	.0	1.5	2.5	.0	1.0
13	19.0	14.0	16.0	10.0	7.5	8.5	3.5	.5	2.0	2.0	.0	1.0
14	18.0	12.5	15.5	7.5	5.0	6.5	3.0	.5	2.0	3.5	.5	2.0
15	---	---	---	5.5	2.5	4.5	4.0	1.0	2.5	2.5	.5	2.0
16	---	---	---	5.5	2.0	4.0	3.0	.0	1.5	3.5	.5	2.0
17	17.5	12.5	14.5	7.5	5.5	6.5	2.0	.5	1.5	4.5	3.0	3.5
18	17.0	12.5	14.5	7.5	5.5	6.5	4.0	.5	2.0	4.0	1.0	2.5
19	16.5	12.5	14.5	5.5	3.0	4.5	3.0	1.5	2.5	2.5	.0	1.5
20	15.5	11.5	13.5	8.0	4.5	6.0	1.5	.0	.5	2.0	.0	1.0
21	15.0	10.0	12.5	8.0	5.5	7.0	1.0	.0	.0	4.0	.0	2.0
22	15.0	11.0	13.0	5.5	2.5	4.0	2.0	.0	1.0	3.5	.0	2.0
23	12.0	8.5	10.0	4.5	1.5	3.0	2.5	.0	1.0	3.0	.0	1.5
24	9.0	6.0	8.0	6.0	2.5	4.0	2.0	.0	1.0	4.5	1.5	3.0
25	9.5	8.0	9.0	6.0	3.0	5.0	2.0	.0	1.0	6.5	2.5	4.5
26	10.5	8.0	9.0	7.0	4.0	5.5	2.5	.5	1.5	6.5	3.5	5.0
27	8.5	5.5	7.0	6.0	2.0	4.0	4.5	2.0	3.0	5.0	2.0	4.0
28	8.5	4.0	6.0	3.5	.5	2.0	4.5	3.0	4.0	7.0	5.0	5.5
29	7.5	5.0	6.5	2.5	.5	1.5	4.0	3.5	4.0	6.0	2.0	4.0
30	7.0	3.0	5.0	1.0	.0	.0	6.0	3.0	4.5	5.5	2.5	4.0
31	7.0	2.0	4.5	---	---	---	4.5	2.5	3.5	5.0	2.0	3.5
MONTH	---	---	---	13.0	.0	6.5	6.0	.0	2.1	7.0	.0	2.5

10351700 TRUCKEE RIVER NEAR NIXON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.0	4.0	5.0	12.5	9.5	11.0	16.0	14.5	15.0	18.5	13.0	16.0
2	6.5	3.0	5.0	11.0	9.0	10.0	16.5	15.0	15.5	21.0	13.0	17.0
3	5.5	2.5	4.0	12.5	8.0	10.0	16.5	15.5	16.0	22.5	15.0	18.5
4	4.5	1.5	3.5	12.5	8.0	10.5	16.5	15.5	16.0	22.5	16.0	19.0
5	5.0	1.5	3.5	11.0	8.5	10.0	16.0	14.5	15.0	22.5	16.0	19.5
6	6.0	3.5	4.5	12.0	8.0	9.5	16.0	14.5	15.0	24.5	17.0	20.0
7	8.0	5.5	7.0	11.0	7.0	9.0	16.0	14.5	15.5	23.5	18.5	21.0
8	10.0	7.0	8.5	11.0	6.5	8.5	16.5	15.0	16.0	23.5	17.5	20.5
9	8.5	6.0	7.5	12.0	7.0	9.5	16.5	15.0	15.5	20.5	14.0	17.5
10	8.0	5.5	7.0	12.5	7.5	10.0	---	---	---	22.0	14.0	18.0
11	9.0	5.5	7.0	13.0	7.5	10.5	16.0	15.0	15.5	24.0	16.0	19.5
12	7.0	5.5	6.5	13.5	7.5	10.5	16.0	15.0	15.5	23.0	16.0	19.5
13	8.0	4.5	6.0	13.5	8.5	11.5	15.5	14.5	15.0	23.5	16.5	19.5
14	8.5	5.0	7.0	13.0	9.5	11.0	16.0	15.0	15.5	22.5	16.5	18.5
15	8.0	5.5	6.5	11.5	8.5	10.0	16.5	15.5	16.0	24.0	15.0	19.5
16	7.0	4.5	5.5	12.0	9.0	10.5	16.5	15.5	16.0	23.5	17.0	19.5
17	6.0	3.5	5.0	12.5	8.5	10.5	16.5	16.0	16.0	25.0	16.0	20.0
18	5.5	4.0	4.5	13.0	7.5	10.5	16.5	15.0	16.0	24.5	17.0	20.0
19	6.5	3.5	5.0	12.5	7.0	10.5	16.0	14.5	15.5	20.5	15.0	18.0
20	10.5	6.0	8.0	12.0	9.5	11.0	16.0	15.0	15.5	20.5	13.0	16.5
21	10.0	8.0	9.0	14.0	8.5	11.5	16.5	15.5	16.0	---	---	---
22	12.5	8.5	10.0	12.0	10.0	11.0	16.5	15.0	16.0	---	---	---
23	10.5	6.0	8.5	13.0	8.0	10.5	16.0	14.5	15.5	---	---	---
24	10.5	5.5	8.5	14.0	8.5	11.5	16.0	15.0	15.5	---	---	---
25	11.5	6.5	9.5	15.0	10.0	12.5	17.0	15.5	16.0	---	---	---
26	12.0	6.5	9.5	17.0	11.5	14.0	18.0	17.0	17.0	---	---	---
27	12.0	6.5	10.0	16.5	11.5	14.5	18.5	17.0	17.5	24.0	16.0	20.0
28	12.5	7.5	10.5	17.0	12.0	14.5	19.0	18.0	18.0	24.5	18.5	21.0
29	11.5	9.5	10.5	16.5	12.5	15.0	23.0	19.0	20.0	23.5	18.0	20.5
30	---	---	---	14.5	10.0	12.5	19.5	15.0	17.5	25.5	19.0	22.0
31	---	---	---	15.5	12.5	14.0	---	---	---	27.0	20.0	23.5
MONTH	12.5	1.5	7.0	17.0	6.5	11.2	---	---	---	---	---	---
	JUNE			JULY			AUGUST			SEPTEMBER		
1	27.0	18.5	23.0	21.5	13.5	17.5	---	---	---	23.5	17.5	20.5
2	26.0	20.5	23.0	24.0	16.5	20.0	26.5	20.0	22.5	23.5	18.0	20.5
3	27.0	20.5	23.5	24.5	18.0	21.0	27.0	19.5	22.5	22.0	17.5	19.0
4	26.0	19.5	23.0	25.5	19.0	22.0	27.0	18.5	22.5	22.0	15.5	18.5
5	24.5	18.5	21.5	26.0	18.0	21.5	26.5	19.5	23.0	22.5	16.0	19.5
6	25.0	19.5	22.0	23.0	17.5	20.0	26.5	20.0	22.5	22.5	16.0	19.0
7	25.5	17.0	21.5	24.5	16.5	20.5	26.5	19.5	22.5	22.0	15.0	18.5
8	25.5	19.0	21.5	26.5	18.5	22.0	27.0	20.0	23.0	22.5	13.5	18.5
9	26.0	17.5	22.5	27.5	18.5	22.5	28.0	19.0	23.0	24.0	17.0	20.0
10	25.0	20.5	22.0	27.0	19.0	22.5	28.5	20.5	24.5	---	---	---
11	26.5	18.0	22.0	---	---	---	29.0	21.5	25.0	---	---	---
12	22.0	16.0	18.5	---	---	---	27.0	23.0	24.5	22.5	16.0	19.0
13	---	---	---	---	---	---	27.0	21.5	24.0	---	---	---
14	---	---	---	---	---	---	28.5	21.5	24.5	---	---	---
15	---	---	---	---	---	---	28.5	23.0	25.0	---	---	---
16	21.0	13.5	17.0	---	---	---	29.0	21.5	25.0	---	---	---
17	23.0	16.5	19.5	---	---	---	28.5	22.0	25.0	---	---	---
18	21.0	17.5	19.0	---	---	---	28.0	22.5	25.0	23.0	17.5	20.0
19	24.5	15.0	20.0	---	---	---	27.5	21.5	24.0	22.0	16.0	19.0
20	26.0	19.5	22.5	---	---	---	27.5	20.5	23.5	22.0	16.5	19.0
21	27.5	20.0	23.5	28.0	19.0	23.0	24.0	20.0	21.5	22.0	16.0	19.0
22	25.5	20.5	23.0	27.0	19.0	22.5	22.0	17.0	19.0	22.0	16.0	19.5
23	25.0	17.5	21.5	25.0	17.5	21.5	22.5	15.0	18.0	22.5	17.5	20.0
24	26.0	21.0	22.5	25.5	18.5	22.0	22.0	16.0	19.0	20.0	15.5	18.0
25	23.5	19.5	21.5	27.5	19.5	23.0	23.0	16.0	19.5	18.0	12.0	15.0
26	27.0	19.0	23.0	29.0	21.0	24.5	23.0	16.0	19.5	19.0	11.5	16.0
27	29.0	21.0	24.5	28.5	19.5	24.5	23.5	16.5	20.5	19.5	13.0	16.5
28	25.0	17.5	22.0	27.5	21.0	24.0	24.5	18.5	21.5	---	---	---
29	19.0	16.0	18.0	27.5	20.5	24.0	24.5	19.0	21.0	19.5	14.0	17.0
30	20.0	14.0	17.0	29.0	22.0	25.0	23.5	18.5	20.5	20.5	15.5	18.0
31	---	---	---	---	---	---	23.0	18.5	20.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

363

10351775 TRUCKEE RIVER AT MARBLE BLUFF DAM, NV

LOCATION.--Lat 39°51'20", long 119°23'32", in NW 1/4 NW 1/4 sec.22, T.23 N., R.23 E., Washoe County, Hydrologic Unit 16050103, 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.

DRAINAGE AREA.--2,730 mi².

PERIOD OF RECORD.--Water years 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder since July 1988, hourly.

REMARKS.--Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 31.5°C, July 16, 1992; minimum, freezing point on many days during winter months of some years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 31.5°C, July 16; minimum, freezing point on many days during winter months.

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	21.5	17.5	19.0	9.5	6.0	7.5	1.5	.0	.5	3.5	2.5	3.0
2	21.0	16.5	18.5	10.0	7.0	8.5	3.5	.5	2.0	3.0	2.0	2.5
3	19.5	16.0	17.5	11.5	8.0	9.5	4.0	1.0	2.5	2.5	1.5	2.0
4	20.0	15.0	17.0	11.0	8.5	10.0	3.5	.5	2.0	4.5	1.5	2.5
5	20.5	14.5	17.0	11.5	8.0	10.0	4.0	1.0	2.5	3.5	2.5	3.0
6	20.0	15.5	17.5	12.5	8.5	10.5	4.5	2.5	3.5	4.0	2.0	3.0
7	20.0	15.5	17.5	12.5	9.0	11.0	4.0	2.5	4.0	4.5	2.5	3.5
8	19.5	15.0	17.0	11.5	10.5	11.0	3.5	1.5	2.5	3.5	1.0	2.5
9	19.0	14.5	16.5	12.0	10.5	11.5	3.5	.5	2.0	3.0	1.0	2.0
10	18.0	14.5	16.5	12.0	9.0	10.5	3.5	1.0	2.0	2.0	.5	1.0
11	18.5	15.0	16.5	11.5	8.5	10.0	3.0	.5	2.0	1.5	.0	.5
12	18.5	15.5	17.0	11.0	8.0	9.5	3.0	.5	1.5	1.5	.0	.5
13	18.0	15.0	16.5	9.5	7.5	8.5	3.0	.5	2.0	2.0	.0	1.0
14	17.0	14.0	16.0	8.0	6.5	7.5	3.5	1.0	2.0	3.0	.5	1.5
15	17.0	13.5	15.5	7.5	4.5	6.0	3.5	1.5	2.5	3.0	1.0	2.0
16	17.5	14.0	15.5	7.0	4.0	5.5	3.0	.5	2.0	3.5	1.0	2.0
17	17.5	14.5	16.0	8.0	6.0	6.5	2.5	1.0	2.0	3.5	2.5	3.0
18	17.5	14.0	16.0	7.5	5.5	6.5	4.0	1.5	2.5	3.5	.5	2.0
19	16.5	14.0	15.5	6.0	3.5	5.0	2.5	1.0	1.5	3.0	.5	1.5
20	16.0	13.5	14.5	7.5	5.0	6.0	2.0	.0	1.0	3.0	.0	1.5
21	15.5	12.5	14.5	8.0	5.5	6.5	1.5	.0	1.0	4.0	1.0	2.0
22	15.5	13.0	14.5	6.0	3.0	4.5	2.5	.5	1.0	3.5	.5	2.0
23	13.5	11.0	12.5	5.5	2.5	4.0	2.5	.0	1.5	3.5	.5	2.0
24	13.0	9.5	11.0	6.5	3.5	5.0	2.5	.0	1.0	4.5	1.5	3.0
25	12.5	10.5	11.5	6.5	4.0	5.0	2.5	.0	1.0	6.0	2.5	4.0
26	12.5	11.0	11.5	6.5	3.5	5.0	3.0	.5	2.0	5.0	3.0	4.0
27	10.5	8.0	9.0	5.5	2.5	4.0	4.0	2.0	3.0	5.5	2.5	4.0
28	10.0	6.5	8.0	4.0	1.5	3.0	4.0	2.5	3.5	6.0	4.5	5.0
29	9.0	7.0	8.5	3.0	1.5	2.5	4.0	3.0	3.5	6.5	3.0	4.5
30	9.0	5.5	7.0	2.5	.0	1.0	4.5	3.0	4.0	5.5	3.5	4.5
31	9.0	5.5	7.0	---	---	---	4.5	2.0	3.5	5.0	3.0	4.0
MONTH	21.5	5.5	14.5	12.5	.0	7.0	4.5	.0	2.2	6.5	.0	2.6

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.5	4.0	4.5	11.5	10.0	10.5	15.5	13.0	14.0	18.0	15.0	16.5
2	6.0	2.5	4.0	11.5	10.0	10.5	15.5	13.5	14.5	18.5	15.5	17.5
3	5.0	2.0	3.5	12.0	9.5	11.0	16.5	14.0	15.0	19.5	16.0	18.0
4	5.0	2.5	3.5	11.5	9.5	10.5	16.0	14.0	15.0	19.5	16.5	18.0
5	5.0	2.5	4.0	11.0	10.0	10.5	14.0	11.5	13.0	19.5	16.5	18.5
6	5.0	3.5	4.5	10.5	9.5	10.0	14.0	11.0	12.5	22.5	17.5	19.5
7	7.5	5.0	6.5	11.0	8.0	9.5	15.0	11.5	13.0	22.0	18.5	20.0
8	8.5	6.0	7.0	11.0	8.5	9.5	16.0	13.0	14.5	21.0	18.0	19.5
9	7.5	5.5	6.5	12.5	8.5	10.0	15.5	12.5	14.5	19.5	16.0	17.5
10	8.0	6.0	7.0	11.5	8.0	9.5	15.0	13.5	14.5	19.5	16.0	17.5
11	9.0	6.5	7.5	11.0	8.5	10.0	16.5	13.5	15.0	21.0	17.5	19.0
12	7.0	6.0	6.5	11.0	9.0	10.0	15.5	13.0	14.0	20.0	17.5	18.5
13	7.5	5.0	6.5	11.5	10.0	11.0	16.0	12.0	14.0	20.0	17.5	18.5
14	8.5	5.0	7.0	11.5	10.0	11.0	16.5	13.0	14.5	19.5	17.5	18.5
15	8.0	5.5	6.5	11.0	9.0	10.0	16.0	13.0	14.5	19.5	16.5	18.0
16	7.5	4.5	6.0	11.0	9.5	10.5	16.0	13.0	14.5	20.5	18.0	19.5
17	6.5	4.5	5.5	11.5	9.0	10.5	16.5	14.5	15.5	20.5	18.0	19.5
18	5.5	4.5	5.0	11.5	9.5	10.5	16.0	12.0	14.0	20.0	17.0	18.5
19	7.0	4.0	5.5	11.0	9.5	10.5	16.0	12.5	14.0	19.5	16.5	18.0
20	10.0	6.0	8.0	11.5	10.5	11.0	16.5	14.0	15.5	21.0	14.0	17.0
21	9.5	7.5	8.5	12.0	9.5	10.5	18.0	14.5	16.5	23.0	14.5	18.5
22	11.5	7.5	9.5	12.0	10.0	11.0	16.5	13.0	15.0	24.0	15.0	19.0
23	11.0	6.5	8.5	11.0	9.0	10.0	15.5	12.5	14.0	24.5	14.5	19.5
24	11.0	6.5	8.5	11.5	10.0	10.5	16.5	13.0	15.0	25.5	16.0	20.5
25	12.0	7.0	9.5	12.5	11.0	12.0	18.5	15.0	16.5	25.0	17.5	19.5
26	12.5	7.5	10.0	14.0	12.0	13.0	19.0	16.5	17.5	24.0	17.0	20.0
27	12.5	8.0	10.0	14.5	12.5	13.5	19.0	15.0	17.0	25.5	16.0	20.0
28	11.5	8.0	9.5	15.0	12.5	13.5	19.5	15.5	17.0	26.0	17.0	20.5
29	11.0	9.5	10.5	15.0	13.5	14.0	21.0	18.5	19.5	25.5	16.5	20.0
30	---	---	---	14.5	12.5	13.5	19.5	16.5	18.0	27.0	17.5	21.5
31	---	---	---	15.0	12.0	13.0	---	---	---	28.0	17.5	22.0
MONTH	12.5	2.0	6.9	15.0	8.0	11.0	21.0	11.0	15.1	28.0	14.0	19.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	29.0	19.0	22.5	22.0	15.0	18.5	29.5	19.0	24.0	23.5	17.5	20.5
2	28.5	20.0	23.5	24.5	17.5	21.0	28.5	18.5	23.0	24.5	17.5	20.0
3	29.0	20.5	24.0	24.5	19.5	21.0	30.0	18.0	23.5	22.5	17.0	19.0
4	28.5	20.0	23.0	23.0	18.5	20.5	31.0	18.0	23.5	22.5	15.5	19.0
5	29.0	18.5	22.5	23.0	17.0	20.0	30.0	20.0	24.5	24.0	17.0	19.5
6	27.5	18.5	22.5	22.5	18.0	20.0	29.5	18.5	23.0	23.0	16.5	19.5
7	28.0	18.0	21.5	25.0	17.5	21.5	29.5	17.0	22.5	22.5	15.5	18.5
8	28.0	18.0	22.5	26.0	19.0	22.0	28.5	18.0	22.5	23.5	16.0	19.5
9	27.5	18.0	21.5	27.5	19.0	22.5	28.5	18.5	23.0	25.5	17.5	21.0
10	28.0	18.5	21.5	28.0	19.0	23.0	29.0	20.0	24.0	25.0	19.0	21.5
11	27.5	17.0	22.0	25.5	20.0	22.5	30.5	20.5	24.5	24.0	18.0	20.5
12	22.0	15.5	18.0	28.5	20.5	24.0	28.5	22.0	24.0	22.5	17.0	19.5
13	24.0	15.0	18.0	30.0	21.0	25.0	29.0	20.5	23.5	20.0	16.0	18.0
14	21.0	15.0	17.5	30.5	21.5	24.5	28.0	21.5	24.5	21.0	15.5	18.0
15	20.5	15.5	17.0	29.5	22.0	25.5	28.0	22.0	25.0	22.0	16.0	19.0
16	23.0	15.0	18.5	31.5	22.5	26.0	29.5	22.0	25.0	22.5	16.5	19.5
17	24.5	17.0	20.5	29.5	22.0	24.5	29.0	22.5	25.5	22.5	17.5	19.5
18	23.5	19.0	20.5	31.0	20.0	24.5	28.5	22.5	25.0	22.5	18.0	20.0
19	25.0	17.5	21.5	30.5	19.5	24.0	27.0	20.0	23.5	23.0	16.5	19.5
20	26.5	19.5	23.0	30.0	19.5	23.0	27.0	20.0	23.5	23.0	17.0	20.0
21	28.5	20.5	24.5	30.0	19.5	23.5	25.5	20.0	22.5	24.5	17.0	20.5
22	28.5	21.5	25.0	28.0	18.0	22.0	23.0	17.5	20.0	24.5	18.0	21.0
23	27.0	22.0	24.0	27.5	17.5	22.0	23.5	16.0	19.5	23.5	19.0	21.0
24	27.0	21.0	23.5	27.0	17.5	22.5	23.0	17.5	20.0	21.0	17.0	19.0
25	24.5	20.0	22.0	27.0	21.0	24.0	23.5	17.5	20.5	20.0	14.5	17.5
26	27.5	21.0	24.0	28.5	21.0	25.0	25.5	17.0	21.0	20.5	14.0	17.5
27	28.5	21.0	24.0	28.0	21.5	24.5	25.0	17.0	21.5	20.5	15.0	18.0
28	25.0	18.0	21.5	28.5	21.0	24.5	27.0	18.0	21.5	22.0	15.5	19.0
29	19.0	16.0	17.5	29.0	21.0	24.5	25.5	18.5	20.5	21.0	15.5	18.5
30	20.5	15.0	17.5	30.5	22.0	25.5	24.0	17.5	20.5	20.5	16.5	19.0
31	---	---	---	29.5	21.5	24.5	24.0	17.5	20.5	---	---	---
MONTH	29.0	15.0	21.5	31.5	15.0	23.1	31.0	16.0	22.8	25.5	14.0	19.4
YEAR	31.5	.0	13.8									

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 mi².

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 sea level, 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 fair except for estimated daily discharges, which are poor. One diversion for about 1,500 acres above station. No flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 20	1600	*75	*3.58				
No flow, July 17-Sept. 27.							

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	5.1	e5.0	e6.0	e9.0	11	3.5	4.3	.90	.78	.00	.00
2	2.5	5.4	e7.0	e5.0	e9.0	11	3.6	4.4	.84	.73	.00	.00
3	2.4	5.1	e7.0	e5.0	e8.0	12	3.7	4.3	.83	.63	.00	.00
4	2.4	5.1	e6.0	e6.0	e9.0	12	3.7	4.3	.71	.47	.00	.00
5	2.6	5.0	e6.0	e7.0	e9.0	12	3.7	4.4	.62	.33	.00	.00
6	2.7	5.2	e7.0	e7.0	e9.0	17	3.7	4.1	.57	.21	.00	.00
7	2.7	5.6	e7.0	e7.0	9.6	12	3.3	4.0	.57	.17	.00	.00
8	2.8	5.9	e7.0	e6.0	9.8	11	3.1	3.9	.60	.12	.00	.00
9	2.7	5.9	e6.0	e5.0	9.7	11	2.9	3.6	.59	.09	.00	.00
10	2.7	6.2	e6.0	e6.0	10	9.3	2.9	3.7	.53	.06	.00	.00
11	2.7	6.5	e5.0	e6.0	e9.0	9.2	3.0	3.5	.48	.06	.00	.00
12	2.8	6.4	e5.0	e6.0	e9.0	8.1	2.8	3.1	.52	.15	.00	.00
13	2.8	6.4	e7.0	e6.0	e9.0	6.8	3.0	3.0	.91	.17	.00	.00
14	2.8	6.7	e7.0	e6.0	e9.1	6.4	3.0	2.7	.96	.18	.00	.00
15	2.9	e7.0	e6.0	e6.0	8.5	5.0	3.2	2.7	.97	.11	.00	.00
16	3.0	e7.0	e6.0	e6.0	8.3	3.7	3.6	2.6	.89	.03	.00	.00
17	3.1	7.6	e6.0	e7.0	e8.0	3.2	3.9	2.5	.89	.00	.00	.00
18	3.2	9.4	e6.0	e6.0	8.3	3.0	4.6	2.2	1.5	.00	.00	.00
19	3.2	9.3	e7.0	e6.0	8.1	3.2	5.2	2.1	1.3	.00	.00	.00
20	3.3	7.7	e6.0	e6.0	33	3.3	4.9	2.3	1.1	.00	.00	.00
21	3.5	8.2	e5.0	e7.0	33	3.3	4.8	2.2	.85	.00	.00	.00
22	3.5	e8.0	e5.0	e8.0	26	3.1	4.8	2.1	.70	.00	.00	.00
23	3.6	e8.0	e7.0	e8.0	17	3.0	4.8	2.0	.51	.00	.00	.00
24	3.7	e8.0	e6.0	e8.0	12	2.9	5.1	1.8	.38	.00	.00	.00
25	3.9	8.0	e6.0	e8.0	11	2.9	5.3	1.7	.37	.00	.00	.00
26	6.4	7.5	e6.0	e8.0	11	3.1	5.5	1.6	.71	.00	.00	.00
27	6.9	7.4	e6.0	e8.0	11	3.3	5.7	1.3	1.1	.00	.00	.00
28	5.2	7.1	e7.0	e8.0	13	3.3	5.5	1.2	.87	.00	.00	.11
29	5.3	e6.0	e7.0	e9.0	13	3.4	5.1	1.2	.67	.00	.00	.62
30	5.3	e5.0	e7.0	e8.0	---	3.5	4.6	1.1	.68	.00	.00	.84
31	e5.0	---	e7.0	e8.0	---	3.5	---	1.0	---	.00	.00	---
TOTAL	108.3	201.7	194.0	209.0	349.4	205.5	122.5	84.9	23.12	4.29	0.00	1.57
MEAN	3.49	6.72	6.26	6.74	12.0	6.63	4.08	2.74	.77	.14	.000	.052
MAX	6.9	9.4	7.0	9.0	33	17	5.7	4.4	1.5	.78	.00	.84
MIN	2.4	5.0	5.0	5.0	8.0	2.9	2.8	1.0	.37	.00	.00	.00
AC-FT	215	400	385	415	693	408	243	168	46	8.5	.00	3.1

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1992, BY WATER YEAR (WY)

	4.45	7.06	12.0	21.7	44.8	72.7	99.0	73.6	34.3	9.59	2.89	2.59
MEAN	4.45	7.06	12.0	21.7	44.8	72.7	99.0	73.6	34.3	9.59	2.89	2.59
MAX	10.0	17.3	50.9	91.5	302	271	600	310	140	46.5	15.4	9.96
(WY)	1984	1984	1956	1956	1986	1986	1952	1984	1983	1984	1983	1984
MIN	.69	3.58	2.46	2.26	4.82	6.63	4.08	2.74	.77	.14	.000	.000
(WY)	1982	1956	1950	1950	1955	1992	1992	1992	1992	1992	1992	1960

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1949 - 1992
ANNUAL TOTAL	3376.3	1504.28	
ANNUAL MEAN	9.25	4.11	31.9
HIGHEST ANNUAL MEAN			98.2
LOWEST ANNUAL MEAN			4.11
HIGHEST DAILY MEAN	65	May 19	2800
LOWEST DAILY MEAN	1.9	Aug 12	.00
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 8	.00
INSTANTANEOUS PEAK FLOW		75	3970
INSTANTANEOUS PEAK STAGE		3.58	8.70
ANNUAL RUNOFF (AC-FT)	6700	2980	23110
10 PERCENT EXCEEDS	19	9.0	81
50 PERCENT EXCEEDS	6.5	3.3	8.3
90 PERCENT EXCEEDS	2.3	.00	1.7

BLACK ROCK DESERT

10353600 KINGS RIVER NEAR OROVADA, NV

LOCATION.--Lat 41°54'25", long 118°18'30", in SW 1/4 SE 1/4 sec.31, T.47 N., R.33 E., Humboldt County, Hydrologic Unit 16040201, on left bank, 2.8 mi downstream from Little Creek, 5 mi upstream from Kings River Ranch, and 36 mi northwest of Orovada.

DRAINAGE AREA.--20.5 mi².

PERIOD OF RECORD.--October 1962 to September 1968 and October 1976 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,680 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion or regulation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.3 ft³/s, April 17, gage height, 1.84 ft; maximum gage height, 2.46 ft January 19, backwater from ice; minimum daily, 0.26 ft³/s, August 1, 2, 3.

CORRECTIONS.--The average discharge was incorrectly published in water years 1989-1991. The correct figures are 1989: 6.99 ft³/s, 5060 acre-ft/yr; 1990: 6.75 ft³/s, 4890 acre-ft/yr; 1991: 6.58 ft³/s, 4760 acre-ft/yr.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	e1.5	e2.0	e1.7	e1.4	3.3	2.6	4.3	.75	1.2	.26	.66
2	.96	2.1	e1.7	e1.7	e1.5	3.1	2.6	3.9	.73	.88	.26	.63
3	.94	2.0	e1.7	e1.7	e1.3	3.0	3.0	3.6	.67	.74	.26	.66
4	.97	2.1	e1.7	e1.7	e1.4	3.0	3.5	3.5	.59	.66	.28	.92
5	1.0	2.2	e1.9	e1.8	e1.6	2.9	3.8	3.4	.60	.64	.29	.76
6	1.0	2.4	e2.1	e1.9	1.8	3.4	3.1	3.2	.66	.65	.33	.77
7	1.0	2.6	e2.2	e2.0	2.1	3.1	2.8	3.1	.65	.64	.35	.74
8	1.0	2.4	e2.0	e2.0	1.9	2.9	2.9	3.0	.65	.59	.35	.71
9	1.0	2.7	e1.7	e2.0	1.9	2.8	3.2	2.9	.60	.54	.37	.68
10	.98	2.2	e1.6	e2.0	2.0	2.7	3.7	2.7	.53	.53	.35	.66
11	1.0	2.1	e1.5	e1.9	2.0	2.7	3.7	2.5	.53	.64	.31	.65
12	1.0	2.0	e1.4	e2.0	1.9	2.6	3.9	2.5	1.4	.89	.30	.66
13	1.0	2.3	e1.4	e2.1	2.0	2.6	4.1	2.5	1.8	.62	.33	.73
14	1.1	2.1	e1.5	e2.0	1.9	2.6	3.7	2.1	1.5	.51	.40	.78
15	1.1	2.0	e1.6	e1.8	2.0	2.6	4.1	2.0	1.2	.46	.48	.74
16	1.1	e1.9	e1.7	e1.8	2.2	2.6	4.2	1.8	1.2	.44	.52	.70
17	1.1	2.3	e1.8	e1.6	2.1	2.6	6.4	1.7	1.2	.42	.51	.67
18	1.2	2.2	e1.7	e1.4	1.9	2.6	4.9	1.5	1.5	.47	.44	.70
19	1.2	2.2	e1.6	e1.3	2.2	2.5	4.9	1.5	1.3	.45	.35	.71
20	1.2	2.2	e1.4	e1.4	3.3	2.5	5.0	1.6	.94	.42	.33	.72
21	1.3	2.2	e1.5	e1.6	2.8	2.5	5.2	1.5	.71	.47	.39	.75
22	1.3	e2.0	e1.6	e1.8	2.9	2.4	5.0	1.4	.55	.43	.46	.71
23	1.4	e1.8	e1.7	e1.9	2.7	2.4	4.5	1.2	.45	.46	.61	.70
24	1.5	e2.0	e1.8	e1.7	2.7	2.3	4.5	1.1	.47	.46	.65	.83
25	2.0	2.3	e2.0	e1.6	2.8	2.3	4.7	1.0	1.0	.42	.61	.95
26	3.2	2.4	e2.1	e1.7	3.0	2.4	4.8	1.0	1.2	.38	.60	.88
27	2.1	2.6	e2.2	e1.7	3.1	2.5	4.7	.99	.80	.37	.55	.83
28	1.8	2.7	e2.0	e1.6	3.2	2.4	4.8	.97	.49	.35	.50	.79
29	e1.6	e2.5	e2.0	e1.6	3.3	2.4	5.0	.96	.77	.32	.52	.75
30	e1.7	2.4	e1.9	e1.7	---	2.7	4.9	.91	1.6	.32	.61	.73
31	e1.6	---	e1.8	e1.5	---	2.7	---	.82	---	.30	.64	---
TOTAL	40.35	66.4	54.8	54.2	64.9	83.1	124.2	65.15	27.04	16.67	13.21	22.17
MEAN	1.30	2.21	1.77	1.75	2.24	2.68	4.14	2.10	.90	.54	.43	.74
MAX	3.2	2.7	2.2	2.1	3.3	3.4	6.4	4.3	1.8	1.2	.65	.95
MIN	.94	1.5	1.4	1.3	1.3	2.3	2.6	.82	.45	.30	.26	.63
AC-FT	80	132	109	108	129	165	246	129	54	33	26	44

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1992, BY WATER YEAR (WY)

	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	1.97	2.52	2.69	2.76	5.77	11.2	15.5	18.6	9.85	2.65	1.28	1.44																		
MAX	4.15	4.61	6.88	5.49	16.8	48.9	53.8	98.9	45.9	10.6	4.07	3.23																		
(WY)	1986	1988	1984	1965	1986	1984	1984	1983	1983	1984	1984	1984																		
MIN	.91	1.52	1.30	1.06	1.70	2.29	2.64	2.10	.90	.47	.34	.56																		
(WY)	1989	1967	1977	1963	1990	1991	1968	1992	1992	1968	1966	1966																		

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1963 - 1992

ANNUAL TOTAL	1119.49	632.19	
ANNUAL MEAN	3.07	1.73	6.35
HIGHEST ANNUAL MEAN			21.1
LOWEST ANNUAL MEAN			1.73
HIGHEST DAILY MEAN	21 Jun 4	6.4 Apr 17	188 Feb 1 1963
LOWEST DAILY MEAN	.71 Sep 1	.26 Aug 1	.10 Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	.74 Aug 30	.28 Jul 30	.19 Jan 10 1963
INSTANTANEOUS PEAK FLOW		8.3 Apr 17	770 Feb 1 1963
INSTANTANEOUS PEAK STAGE		2.46 Jan 19	4.00 Feb 1 1963
INSTANTANEOUS LOW FLOW		.09 Aug 1	.00 Aug 9 1966
ANNUAL RUNOFF (AC-FT)	2220	1250	4600
10 PERCENT EXCEEDS	6.4	3.1	16
50 PERCENT EXCEEDS	2.0	1.6	2.6
90 PERCENT EXCEEDS	.97	.47	.93

SUMMIT LAKE VALLEY

367

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 75 mi north of Gerlach.

DRAINAGE AREA.--13.3 mi², approximately.

PERIOD OF RECORD.--July 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,080 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3.8 ft³/s, March 30, gage height, 4.27 ft, maximum gage height, 4.60 ft, December 20, backwater from ice; minimum daily, 0.32 ft³/s, August 1 and 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.4	e.96	1.1	1.3	2.0	2.8	2.0	.86	1.4	.32	.48
2	.85	1.4	1.3	1.1	1.2	2.0	2.7	2.1	.88	.87	.33	.44
3	.84	1.5	1.3	e1.1	1.1	2.1	2.7	1.9	.84	.71	.32	.44
4	.91	1.8	1.2	e1.1	1.3	2.1	2.7	1.7	.75	.65	.34	.45
5	.91	1.8	1.3	e1.1	1.3	2.1	2.4	1.7	.72	.63	.33	.48
6	.88	1.9	1.4	e1.1	1.4	2.2	2.2	1.6	.77	.59	.33	.48
7	.91	1.7	1.4	1.1	1.4	2.2	2.1	1.6	.76	.60	.35	.49
8	.93	1.6	1.4	e1.1	1.4	2.1	2.2	1.5	.74	.58	.34	.48
9	.94	1.8	1.3	e1.1	1.4	2.1	2.2	1.4	.72	.54	.34	.46
10	.95	1.7	1.3	1.1	1.4	2.2	2.2	1.4	.67	.51	.34	.46
11	.95	1.6	e1.2	1.1	1.4	2.2	2.4	1.3	.68	.62	.34	.43
12	.94	1.6	e1.1	e1.2	1.4	2.3	2.3	1.4	.67	.78	.35	.43
13	.96	1.5	1.1	e1.3	1.4	2.4	2.3	1.4	.90	.70	.37	.48
14	1.0	1.4	e1.2	1.3	1.4	2.4	2.2	1.3	1.0	.62	.51	.53
15	1.0	1.1	1.1	1.3	1.4	2.3	2.2	1.3	1.0	.53	.49	.51
16	1.0	1.2	1.2	1.3	1.4	2.3	2.2	1.3	1.0	.46	.42	.49
17	1.0	1.4	1.0	1.3	1.5	2.3	2.5	1.2	1.1	.44	.44	.46
18	1.1	1.4	e1.0	1.2	1.6	2.0	2.2	1.2	1.0	.49	.38	.41
19	1.1	1.4	e1.0	e1.2	1.7	2.0	2.2	1.2	.99	.43	.36	.41
20	1.1	1.8	e1.0	e1.2	2.3	2.1	2.2	1.5	.89	.42	.35	.41
21	1.1	1.6	e1.1	1.1	1.9	2.2	2.2	1.4	.83	.45	.34	.42
22	1.2	1.1	e.96	1.1	2.0	2.0	2.1	1.3	.70	.43	.39	.41
23	1.3	1.4	e1.0	1.1	1.7	2.0	2.1	1.2	.62	.47	.44	.40
24	1.3	1.5	1.0	1.1	1.8	2.0	2.1	1.2	.61	.46	.44	.39
25	1.4	1.6	1.0	1.1	1.8	2.2	2.2	1.1	.77	.43	.47	.47
26	1.7	1.6	1.1	1.1	1.9	2.2	2.1	1.0	.78	.43	.44	.53
27	1.5	1.5	1.1	1.2	1.9	2.2	2.2	.99	.69	.43	.41	.53
28	1.4	1.2	1.1	1.3	2.1	2.3	2.2	1.0	.57	.41	.40	.51
29	1.4	e1.1	1.1	1.3	2.1	2.4	1.9	1.0	.72	.34	.40	.46
30	1.3	e.92	e1.1	1.3	---	3.2	1.9	.95	1.3	.34	.43	.46
31	1.3	---	e1.1	1.3	---	3.0	---	.92	---	.33	.46	---
TOTAL	34.07	44.52	35.42	36.4	45.9	69.1	67.9	42.06	24.53	17.09	11.97	13.80
MEAN	1.10	1.48	1.14	1.17	1.58	2.23	2.26	1.36	.82	.55	.39	.46
MAX	1.7	1.9	1.4	1.3	2.3	3.2	2.8	2.1	1.3	1.4	.51	.53
MIN	.84	.92	.96	1.1	1.1	2.0	1.9	.92	.57	.33	.32	.39
AC-FT	68	88	70	72	91	137	135	83	49	34	24	27

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1992, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992
MEAN	1.25	1.52	1.25	1.25	1.48	2.00
MAX	1.59	1.96	1.62	1.59	1.81	2.28
(WY)	1988	1988	1988	1988	1988	1989
MIN	1.01	1.28	1.01	1.04	1.28	1.42
(WY)	1991	1991	1991	1991	1989	1991

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1987 - 1992

ANNUAL TOTAL	728.97	442.76	
ANNUAL MEAN	2.00	1.21	1.73
HIGHEST ANNUAL MEAN			2.28
LOWEST ANNUAL MEAN			1.21
HIGHEST DAILY MEAN	8.8	3.2	11
LOWEST DAILY MEAN	.71	.32	.32
ANNUAL SEVEN-DAY MINIMUM	.73	.33	.33
INSTANTANEOUS PEAK FLOW		3.8	13
INSTANTANEOUS PEAK STAGE		4.60	4.88
ANNUAL RUNOFF (AC-FT)	1450	878	1260
10 PERCENT EXCEEDS	4.0	2.2	2.7
50 PERCENT EXCEEDS	1.3	1.1	1.4
90 PERCENT EXCEEDS	.83	.43	.76

HUALAPAI FLAT

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--Lat 41°01'00", long 119°21'00", in SE 1/4 NE 1/4 sec.11, T.36 N., R.23 E., Washoe County, Hydrologic Unit 16040203, on left bank, 150 ft east of State Highway 34, and 25 mi north of Gerlach.

DRAINAGE AREA.--31 mi², approximately.

PERIOD OF RECORD.--Water years 1963-73 (annual maximum), August 1973 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above sea level, from topographic map. July 1, 1963, to August 16, 1973, operated as a crest-stage gage only, at datum 1.00 ft higher.

REMARKS.--Records poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of unknown date reached a stage of 9.4 ft, present datum, from floodmarks, estimated discharge, 3,100 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.24 ft³/s, March 6, gage height, 0.66 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.07	e.06	e.02	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.09	e.06	e.02	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.10	e.06	e.02	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.10	e.06	e.02	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.10	e.06	e.02	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.17	e.06	e.02	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.16	e.06	e.02	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.16	e.06	.02	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.10	e.05	.02	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.07	e.05	.02	.00	.00	.00	.00
16	.00	.00	.00	.00	.01	.07	e.05	.02	.00	.00	.00	.00
17	.00	.00	.00	.00	.02	.07	e.05	.01	.00	.00	.00	.00
18	.00	.00	.00	.00	.03	.07	e.05	.01	.00	.00	.00	.00
19	.00	.00	.00	.00	.03	.07	e.04	.01	.00	.00	.00	.00
20	.00	.00	.00	.00	.04	.07	e.04	.01	.00	.00	.00	.00
21	.00	.00	.00	.00	.04	.07	e.04	.01	.00	.00	.00	.00
22	.00	.00	.00	.00	.04	.07	e.04	.01	.00	.00	.00	.00
23	.00	.00	.00	.00	.04	e.07	e.04	.01	.00	.00	.00	.00
24	.00	.00	.00	.00	.04	e.07	e.04	.01	.00	.00	.00	.00
25	.00	.00	.00	.00	.04	e.07	e.04	.01	.00	.00	.00	.00
26	.00	.00	.00	.00	.04	e.07	e.04	.01	.00	.00	.00	.00
27	.00	.00	.00	.00	.06	e.07	e.03	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.07	e.06	e.03	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	.07	e.06	e.03	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	e.06	e.03	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	e.06	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.57	2.55	1.42	0.42	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	.000	.020	.082	.047	.014	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.07	.17	.06	.02	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.06	.03	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	1.1	5.1	2.8	.8	.00	.00	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1992, BY WATER YEAR (WY)

	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
MEAN	.036	.13	.50	.87	3.40	2.65	1.10	.88	.37	.056	.011	.007								
MAX	.43	1.85	8.24	7.24	30.9	14.3	4.59	6.15	3.41	.23	.10	.060								
(WY)	1987	1984	1984	1980	1986	1983	1983	1983	1975	1987	1980									
MIN	.000	.000	.000	.000	.000	.000	.000	.007	.000	.000	.000	.000								
(WY)	1974	1974	1974	1975	1976	1977	1977	1977	1992	1974	1973	1973								

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1973 - 1992
ANNUAL TOTAL	13.42	4.96	
ANNUAL MEAN	.037	.014	.82
HIGHEST ANNUAL MEAN			3.70
LOWEST ANNUAL MEAN			.004
HIGHEST DAILY MEAN	2.0 Mar 27	.17 Mar 6	279 Feb 17 1986
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Aug 1 1973
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Aug 1 1973
INSTANTANEOUS PEAK FLOW		.24 Mar 6	1730 Jan 31 1963
INSTANTANEOUS PEAK STAGE		.66 Mar 6	7.30 Jan 31 1963
ANNUAL RUNOFF (AC-FT)	27	9.8	594
10 PERCENT EXCEEDS	.04	.06	1.6
50 PERCENT EXCEEDS	.00	.00	.01
90 PERCENT EXCEEDS	.00	.00	.00

SMOKE CREEK DESERT

369

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 miles south of Buffalo Creek Ranch, and 38.1 miles southwest of Gerlach.

DRAINAGE AREA.--50.1 mi², approximately.

PERIOD OF RECORD.--December 15, 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,980 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. 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 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 652 ft³/s, August 16, gage height, 6.35 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e2.8	4.1	3.1	2.0	.50	.00	.00	.00	.00
2	.00	.00	.00	3.2	e4.1	3.1	1.8	.45	.00	.00	.00	.00
3	.00	.00	.00	3.2	e4.2	3.1	1.8	.40	.00	.00	.00	.00
4	.00	.00	.00	3.2	e4.0	3.1	1.6	.31	.00	.00	.00	.00
5	.00	.00	.00	3.5	e3.9	3.2	1.5	.21	.00	.00	.00	.00
6	.00	.00	1.7	3.6	4.2	5.1	1.4	.11	.00	.00	.00	.00
7	.00	.00	3.1	3.4	4.2	4.9	1.5	.06	.00	.00	.00	.00
8	.00	.00	6.9	4.3	4.2	4.2	1.4	.02	.00	.00	.00	.00
9	.00	.00	3.9	4.7	4.2	3.6	1.4	.03	.00	.00	.00	.00
10	.00	.00	2.8	4.6	4.2	3.3	1.4	.03	.00	.00	.00	.00
11	.00	.00	6.1	e4.4	3.9	3.2	1.6	.00	.00	.00	.00	.00
12	.00	.00	4.1	e4.4	4.3	3.1	1.9	.00	.00	.00	.00	.00
13	.00	.00	4.6	e4.5	5.5	3.0	2.3	.00	.00	.00	.07	.00
14	.00	.00	3.3	4.6	5.0	2.9	2.2	.00	.00	.00	.00	.00
15	.00	.00	1.4	3.8	4.8	2.8	1.0	.00	.00	.00	.00	.00
16	.00	.00	.03	4.4	4.2	2.8	1.2	.00	.00	.00	26	.00
17	.00	.00	.00	3.7	3.8	2.9	1.9	.00	.00	.00	18	.00
18	.00	.00	.00	6.1	3.7	2.8	1.8	.00	.00	.00	5.7	.00
19	.00	.00	.00	e6.4	3.5	2.7	1.7	.00	.00	.00	1.7	.00
20	.00	.00	.51	e6.0	4.0	2.7	1.5	.00	.00	.00	e.78	.00
21	.00	.00	1.4	e5.4	4.0	2.6	1.4	.00	.00	.00	e.43	.00
22	.00	.00	3.2	4.8	4.0	2.6	1.3	.00	.00	.00	.00	.00
23	.00	.00	3.4	4.8	3.7	2.5	1.2	.00	.00	.00	.00	.00
24	.00	.00	4.3	5.2	3.4	2.4	1.2	.00	.00	.00	.00	.00
25	.00	.00	5.8	6.6	3.2	2.5	1.1	.00	.00	.00	.00	.00
26	.00	.00	3.2	3.9	3.2	2.5	1.1	.00	.00	.00	.00	.00
27	.00	.00	2.8	6.2	3.1	2.4	.90	.00	.00	.00	.00	.00
28	.00	.00	2.9	4.3	3.1	2.2	.74	.00	.00	.00	.00	.00
29	.00	.00	e2.5	5.3	3.2	2.0	.68	.00	.00	.00	.00	.00
30	.00	.00	e2.6	4.5	---	2.2	.62	.00	.00	.00	.00	.00
31	.00	---	e2.7	4.3	---	2.1	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	73.24	140.1	114.9	91.6	43.14	2.12	0.00	0.00	52.68	0.00
MEAN	.000	.000	2.36	4.52	3.96	2.95	1.44	.068	.000	.000	1.70	.000
MAX	.00	.00	6.9	6.6	5.5	5.1	2.3	.50	.00	.00	26	.00
MIN	.00	.00	.00	2.8	3.1	2.0	.62	.00	.00	.00	.00	.00
AC-FT	.00	.00	145	278	228	182	86	4.2	.00	.00	104	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1992, BY WATER YEAR (WY)

	MEAN	.058	.83	3.27	4.91	12.2	11.0	2.74	1.35	.57	.023	.42	.000
MAX	.17	2.50	3.89	6.25	35.6	23.8	4.97	3.14	2.06	.075	1.70	.000	
(WY)	1990	1990	1991	1989	1989	1989	1989	1989	1989	1989	1990	1992	1989
MIN	.000	.000	2.36	3.95	3.96	2.95	1.32	.026	.000	.000	.000	.000	.000
(WY)	1991	1991	1992	1991	1992	1992	1990	1990	1990	1991	1989	1989	1989

SUMMARY STATISTICS	FOR 1991 CALENDAR YEAR	FOR 1992 WATER YEAR	WATER YEARS 1989 - 1992
ANNUAL TOTAL	893.02	517.78	
ANNUAL MEAN	2.45	1.41	1.94
HIGHEST ANNUAL MEAN			2.58
LOWEST ANNUAL MEAN			1.41
HIGHEST DAILY MEAN	75	Mar 5	278
LOWEST DAILY MEAN	.00	Jun 17	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 17	.00
INSTANTANEOUS PEAK FLOW		652	860
INSTANTANEOUS PEAK STAGE		6.35	6.65
ANNUAL RUNOFF (AC-FT)	1770	1030	1410
10 PERCENT EXCEEDS	6.0	4.2	5.9
50 PERCENT EXCEEDS	.16	.00	.66
90 PERCENT EXCEEDS	.00	.00	.00

SALMON FALLS CREEK BASIN

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¹/₄SW¹/₄ sec.23, T.47 N., R.64 E., Elko County, 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 mi², 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, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910 to Sept. 30, 1916, Oct. 1, 1918 to Aug. 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records good. 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).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	52	39	e44	59	92	86	91	22	38	13	16
2	36	53	60	e39	60	98	83	97	22	30	14	17
3	36	51	58	38	59	101	83	96	24	30	16	16
4	35	51	60	49	58	107	85	91	22	31	15	22
5	35	53	60	53	59	110	88	83	22	28	15	26
6	36	57	61	55	60	107	91	77	20	25	15	25
7	38	57	62	53	60	105	90	77	22	24	15	24
8	39	63	62	44	60	102	88	75	21	21	13	25
9	39	64	54	39	61	96	86	78	19	20	13	22
10	39	63	50	40	62	91	87	82	18	19	11	20
11	39	62	54	45	63	85	85	81	18	19	12	20
12	40	61	59	47	63	82	89	77	20	19	12	20
13	40	63	56	49	64	81	86	66	21	20	11	21
14	40	68	45	52	65	82	88	60	21	20	12	22
15	40	67	48	54	65	83	87	61	26	19	13	21
16	41	61	49	54	67	89	88	58	29	19	12	21
17	41	60	48	55	65	92	93	53	29	27	12	21
18	42	62	58	55	64	90	97	50	27	27	10	21
19	42	61	60	50	65	86	107	43	28	27	9.9	22
20	43	60	44	44	66	83	106	36	28	26	11	22
21	43	61	41	44	71	81	103	34	25	24	11	23
22	43	62	38	49	79	80	110	31	25	24	10	22
23	44	53	52	54	83	81	115	29	22	15	11	23
24	44	57	53	58	84	83	108	29	20	12	13	23
25	45	59	53	58	84	84	102	25	19	13	13	23
26	51	60	51	57	82	82	98	25	20	12	13	24
27	55	61	50	57	83	82	92	26	19	12	13	25
28	54	61	e48	59	85	82	78	28	21	12	12	27
29	52	58	e48	58	87	82	74	29	27	13	11	31
30	52	46	e49	59	---	83	81	26	33	12	12	30
31	49	---	e48	58	---	86	---	24	---	12	16	---
TOTAL	1309	1767	1618	1570	1983	2768	2754	1738	690	650	389.9	675
MEAN	42.2	58.9	52.2	50.6	68.4	89.3	91.8	56.1	23.0	21.0	12.6	22.5
MAX	55	68	62	59	87	110	115	97	33	38	16	31
MIN	35	46	38	38	58	80	74	24	18	12	9.9	16
AC-FT	2600	3500	3210	3110	3930	5490	5460	3450	1370	1290	773	1340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1992, BY WATER YEAR (WY)

	MEAN	49.3	58.8	58.9	68.2	98.3	159	351	456	273	63.3	28.1	32.6
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 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1910 - 1992

ANNUAL TOTAL	32094		17911.9	
ANNUAL MEAN	87.9		48.9	
HIGHEST ANNUAL MEAN				141
LOWEST ANNUAL MEAN				439
HIGHEST DAILY MEAN	330	Jun 6	115	Apr 23
LOWEST DAILY MEAN	13	Aug 30	9.9	Aug 19
ANNUAL SEVEN-DAY MINIMUM	14	Aug 27	11	Aug 17
INSTANTANEOUS PEAK FLOW			^a 119	Apr 22
INSTANTANEOUS PEAK STAGE			^a 5.66	Apr 22
INSTANTANEOUS LOW FLOW			^b 9.4	Aug 18
ANNUAL RUNOFF (AC-FT)	63660		35530	
10 PERCENT EXCEEDS	222		87	
50 PERCENT EXCEEDS	58		49	
90 PERCENT EXCEEDS	30		15	

^a Also occurred Apr. 23.

^b Also occurred Aug. 19.

^c Gage height, 3.37 ft.

^e Estimated

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.

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 sea level, 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 4	0500	*78	*3.02	May 9	1000	*78	*3.02

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1992, BY WATER YEAR (WY)

MEAN	23.3	29.4	29.8	40.4	58.1	159	332	391	214	54.8	17.7	15.5
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	8.17	13.0	12.3	12.0	22.4	37.4	55.0	50.4	14.7	5.60	3.60	3.87
(WY)	1967	1968	1991	1992	1988	1981	1968	1992	1992	1992	1981	1981

SUMMARY STATISTICS

FOR 1991 CALENDAR YEAR

FOR 1992 WATER YEAR

WATER YEARS 1913 - 1992

ANNUAL TOTAL	16961.9		8865.7					
ANNUAL MEAN	46.5		24.2			114		
HIGHEST ANNUAL MEAN						290		1984
LOWEST ANNUAL MEAN						24.2		1992
HIGHEST DAILY MEAN	233	May 25	75	May 9		2070	May 14	1984
LOWEST DAILY MEAN	5.2	Sep 5	2.8	Aug 6		2.5	Sep 18	1981
ANNUAL SEVEN-DAY MINIMUM	5.4	Aug 31	3.0	Aug 1		2.8	Sep 14	1981
INSTANTANEOUS PEAK FLOW			78	Mar 4		2140	May 14	1984
INSTANTANEOUS PEAK STAGE			3.02	Mar 4		12.01	May 14	1984
ANNUAL RUNOFF (AC-FT)	33640		17590			82390		
10 PERCENT EXCEEDS	149		63			338		
50 PERCENT EXCEEDS	20		15			37		
90 PERCENT EXCEEDS	7.3		4.4			11		

OWYHEE RIVER BASIN

13174000 WILD HORSE RESERVOIR NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'15", long 115°50'37", in NE 1/4 NW 1/4 sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, at Wild Horse Dam on Owyhee River, 8 mi west of Gold Creek, and 13 mi southeast of Mountain City.

DRAINAGE AREA.--209 mi².

PERIOD OF RECORD.--March 1938 to current year. Monthend contents for some periods, published in WSP 1317.

REVISED RECORDS.--NV-WDR-80:

GAGE.--Water-stage recorder. Datum of gage is above sea level (levels by Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by concrete-arch dam; storage began March 18, 1938. New dam completed in June 1969, capacity, 71,500 acre-ft between elevations 6,138.50 ft, sill of outlet gate, and 6,205 ft spillway crest. No dead storage. Water is used for irrigation on Duck Valley project.

EXTREMES FOR CURRENT YEAR.--Maximum contents recorded, 10,560 acre-ft, April 29, elevation, 6,172.59 ft; minimum recorded, 4,020 acre-ft, September 30, elevation, 6,162.92 ft.

Capacity table (elevation, in feet, and contents, in acre-ft)

6,162	3,570	6,172	10,040	6,182	21,400	6,192	38,780
6,164	4,590	6,174	11,860	6,184	24,390	6,194	43,010
6,166	5,740	6,176	13,900	6,186	27,630	6,196	47,520
6,168	7,020	6,178	16,170	6,188	31,110	6,198	52,310
6,170	8,440	6,180	18,670	6,190	34,820	6,200	57,390

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.	6,168.80	7,580	--
Oct. 31.	6,168.20	7,160	-420
Nov. 30.	6,168.13	7,110	-50
Dec. 31.	6,168.33	7,250	+140
CAL YR 1991.	--	--	-5,730
Jan. 31.	6,168.56	7,410	+160
Feb. 29.	6,169.95	8,400	+990
Mar. 31.	6,171.97	10,010	+1,610
Apr. 30.	6,172.49	10,470	+460
May 31.	6,166.98	6,350	-4,120
June 30.	6,164.53	4,880	-1,470
July 31.	6,164.00	4,590	-290
Aug. 31.	6,163.48	4,310	-280
Sept. 30.	6,162.95	4,040	-270
WTR YR 1992.	--	--	-3,540

373

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.

PERIOD OF RECORD.--March to November 1916, April 1917 to September 1925, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1317.

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. 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. No flow has occurred many times during period of record when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s, June 5-8, gage height, 1.49 ft; minimum daily, 1.3 ft³/s, June 11, 12.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	7.7	e2.0	2.0	2.2	2.2	2.2	2.3	83	1.6	1.4	2.2
2	8.3	7.7	e2.0	2.0	2.2	2.2	2.2	2.3	83	1.6	1.5	2.2
3	8.3	7.7	e2.0	2.0	2.2	2.2	2.2	2.3	83	1.5	1.5	3.2
4	8.3	7.7	e2.0	2.0	2.2	2.3	2.2	14	82	1.5	1.5	3.9
5	8.3	7.7	e2.0	2.0	2.2	2.3	2.2	28	83	1.5	1.5	3.9
6	8.3	7.7	e2.0	2.0	2.2	2.3	2.2	29	85	1.5	1.6	3.9
7	8.3	7.7	e2.0	2.0	2.2	2.3	2.2	56	85	1.5	1.6	3.8
8	8.3	7.7	e2.0	e2.0	2.2	2.3	2.2	70	66	1.5	1.6	3.7
9	8.3	7.7	e2.0	e2.1	2.2	2.3	2.2	70	1.7	1.6	1.7	3.7
10	8.3	7.7	e2.0	2.2	2.1	2.3	2.3	70	1.5	1.6	1.7	3.7
11	8.3	7.7	e2.0	2.2	2.2	2.3	2.2	73	1.3	1.5	1.7	3.7
12	8.3	7.7	e2.0	2.2	2.2	2.3	2.2	77	1.3	1.5	1.8	3.7
13	8.3	7.7	e2.0	2.2	2.2	2.2	2.2	76	1.4	1.5	1.8	3.9
14	7.5	7.3	e2.0	2.2	2.2	2.2	2.2	76	1.4	1.5	1.8	3.9
15	7.6	7.3	e2.0	2.2	2.1	2.2	2.2	76	1.4	1.5	1.8	3.9
16	7.9	7.3	e2.0	2.2	2.2	2.2	2.2	76	1.4	1.5	1.9	4.4
17	7.9	7.3	e2.0	2.2	2.2	2.2	2.2	76	1.4	1.5	1.8	4.6
18	7.9	7.3	e2.0	2.2	2.2	2.2	2.3	75	1.4	1.4	1.8	4.1
19	8.1	7.3	e2.0	2.2	2.1	2.2	2.3	75	1.5	1.5	1.8	3.9
20	8.0	7.5	e2.0	e2.2	2.2	2.2	2.3	75	1.6	1.5	1.7	3.9
21	8.0	7.7	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.2	3.8
22	8.0	7.7	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.6	3.6
23	8.0	7.3	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.6	3.3
24	8.0	7.3	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.6	3.4
25	8.0	7.3	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.6	3.5
26	8.0	7.3	e2.0	2.2	2.2	2.2	2.3	74	1.6	1.6	2.6	3.5
27	8.0	4.2	e2.0	2.2	2.2	2.2	2.3	78	1.6	1.6	2.5	3.4
28	8.0	2.2	e2.0	2.2	2.2	2.2	2.3	85	1.6	1.5	2.3	3.5
29	8.0	e2.1	e2.0	2.2	2.2	2.2	2.3	84	1.6	1.5	2.3	3.5
30	7.8	e2.0	e2.0	2.2	---	2.1	2.3	84	1.6	1.6	2.2	3.5
31	7.7	---	e2.0	2.2	---	2.1	---	84	---	1.5	2.2	---
TOTAL	250.3	206.5	62.0	66.5	63.5	68.9	67.4	1957.9	683.3	47.6	60.2	109.2
MEAN	8.07	6.88	2.00	2.15	2.19	2.22	2.25	63.2	22.8	1.54	1.94	3.64
MAX	8.3	7.7	2.0	2.2	2.2	2.3	2.3	85	85	1.6	2.6	4.6
MIN	7.5	2.0	2.0	2.0	2.1	2.1	2.2	2.3	1.3	1.4	1.4	2.2
AC-FT	496	410	123	132	126	137	134	3880	1360	94	119	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1992, BY WATER YEAR (WY)

MEAN	12.1	4.22	3.37	4.45	7.90	14.8	88.3	126	89.4	79.9	70.8	35.5
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	.000	.000	.000	.000	.000	.000	.000	.000	4.57	1.54	1.00	1.50
(WY)	1939	1939	1939	1939	1939	1940	1939	1941	1924	1992	1918	1937

WATER YEARS 1918 - 1992

ANNUAL TOTAL	6701.7		3643.3					
ANNUAL MEAN	18.4		9.95			44.9		
HIGHEST ANNUAL MEAN						161		1984
LOWEST ANNUAL MEAN						9.95		1992
HIGHEST DAILY MEAN	118	Jul 9	85	May 28		1470	May 5	1922
LOWEST DAILY MEAN	2.0	Nov 30	1.3	Jun 11		.00	Mar 19	1938
ANNUAL SEVEN-DAY MINIMUM	2.0	Nov 30	1.4	Jun 11		.00	Mar 19	1938
INSTANTANEOUS PEAK FLOW			87	Jun 5		1810	May 5	1922
INSTANTANEOUS PEAK STAGE			1.49	Jun 5		10.11	May 5	1922
INSTANTANEOUS LOW FLOW						.00	Mar 19	1938
ANNUAL RUNOFF (AC-FT)	13290		7230			32500		
10 PERCENT EXCEEDS	72		10			129		
50 PERCENT EXCEEDS	2.7		2.2			6.0		
90 PERCENT EXCEEDS	2.3		1.6			.00		

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 mi².

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,560 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft³/s, February 20, gage height 5.04 ft, from rating curve extended above 139 ft³/s; minimum daily, 0.42 ft³/s, August 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	20	e21	e14	e21	32	34	22	80	3.1	.86	4.4
2	9.2	19	e23	e14	e22	31	34	20	78	2.9	.82	4.0
3	9.2	18	24	e15	e21	31	35	15	79	3.8	.56	3.8
4	8.9	18	27	e17	e21	47	35	14	77	3.8	.42	4.3
5	9.4	19	25	e17	e22	42	35	23	76	3.3	1.4	5.4
6	9.6	22	20	e16	e22	40	32	27	80	3.4	.81	5.4
7	9.9	23	e19	e15	e24	36	30	32	81	3.3	.67	5.5
8	9.9	21	e17	e13	25	35	29	65	81	3.1	.65	5.8
9	10	21	e15	e12	28	32	28	67	54	2.6	.91	5.6
10	11	21	e13	e12	25	31	40	61	19	2.1	1.4	5.4
11	10	20	e12	e12	28	31	50	61	11	1.8	1.6	5.4
12	11	19	e13	e12	31	32	43	72	8.0	1.8	1.8	5.3
13	10	e19	e13	e14	23	33	39	75	7.3	1.8	1.9	5.3
14	10	e19	e13	e15	22	35	37	76	6.5	2.0	2.2	5.2
15	11	e20	e12	e14	21	37	36	78	6.5	1.9	2.2	5.0
16	11	20	e13	e14	26	38	34	77	6.0	1.9	5.3	4.8
17	10	23	e15	e15	22	38	38	76	6.7	2.1	4.9	4.8
18	10	26	e18	e14	21	36	40	76	5.8	2.0	4.7	5.4
19	10	23	e14	e14	19	32	35	75	5.6	2.3	3.6	5.2
20	10	23	e12	e13	88	30	32	74	5.4	2.3	3.5	5.0
21	10	31	e12	e13	49	29	35	75	4.9	2.1	3.3	5.0
22	10	25	e13	e14	51	28	44	75	5.1	2.2	3.6	4.9
23	11	22	e13	e16	38	27	42	75	4.6	.95	3.6	4.9
24	12	32	e14	e17	30	28	36	73	4.2	1.1	4.5	4.9
25	16	25	e14	e18	30	28	34	72	4.1	1.2	5.1	4.7
26	19	24	e14	e17	29	28	32	74	3.7	1.1	4.4	4.8
27	22	26	e14	e17	29	29	30	73	3.9	.88	3.9	5.2
28	18	22	e14	e18	30	29	29	82	4.1	.74	3.8	5.5
29	19	18	e14	e18	31	30	28	82	3.9	.66	3.7	5.5
30	20	e19	e14	e18	---	31	25	80	3.4	.89	3.8	5.7
31	19	---	e14	e18	---	33	---	80	---	.86	4.3	---
TOTAL	375.5	658	489	466	849	1019	1051	1927	815.7	63.98	84.20	152.1
MEAN	12.1	21.9	15.8	15.0	29.3	32.9	35.0	62.2	27.2	2.06	2.72	5.07
MAX	22	32	27	18	88	47	50	82	81	3.8	5.3	5.8
MIN	8.9	18	12	12	19	27	25	14	3.4	.66	.42	3.8
AC-FT	745	1310	970	924	1680	2020	2080	3820	1620	127	167	302

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1992, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	12.1	21.9	15.8	15.0	29.3	32.9	35.0	104	74.8	51.6	26.1	7.44
MAX	12.1	21.9	15.8	15.0	29.3	32.9	35.0	146	122	101	49.5	9.81
(WY)	1992	1992	1992	1992	1992	1992	1992	1991	1991	1991	1991	1991
MIN	12.1	21.9	15.8	15.0	29.3	32.9	35.0	62.2	27.2	2.06	2.72	5.07
(WY)	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992

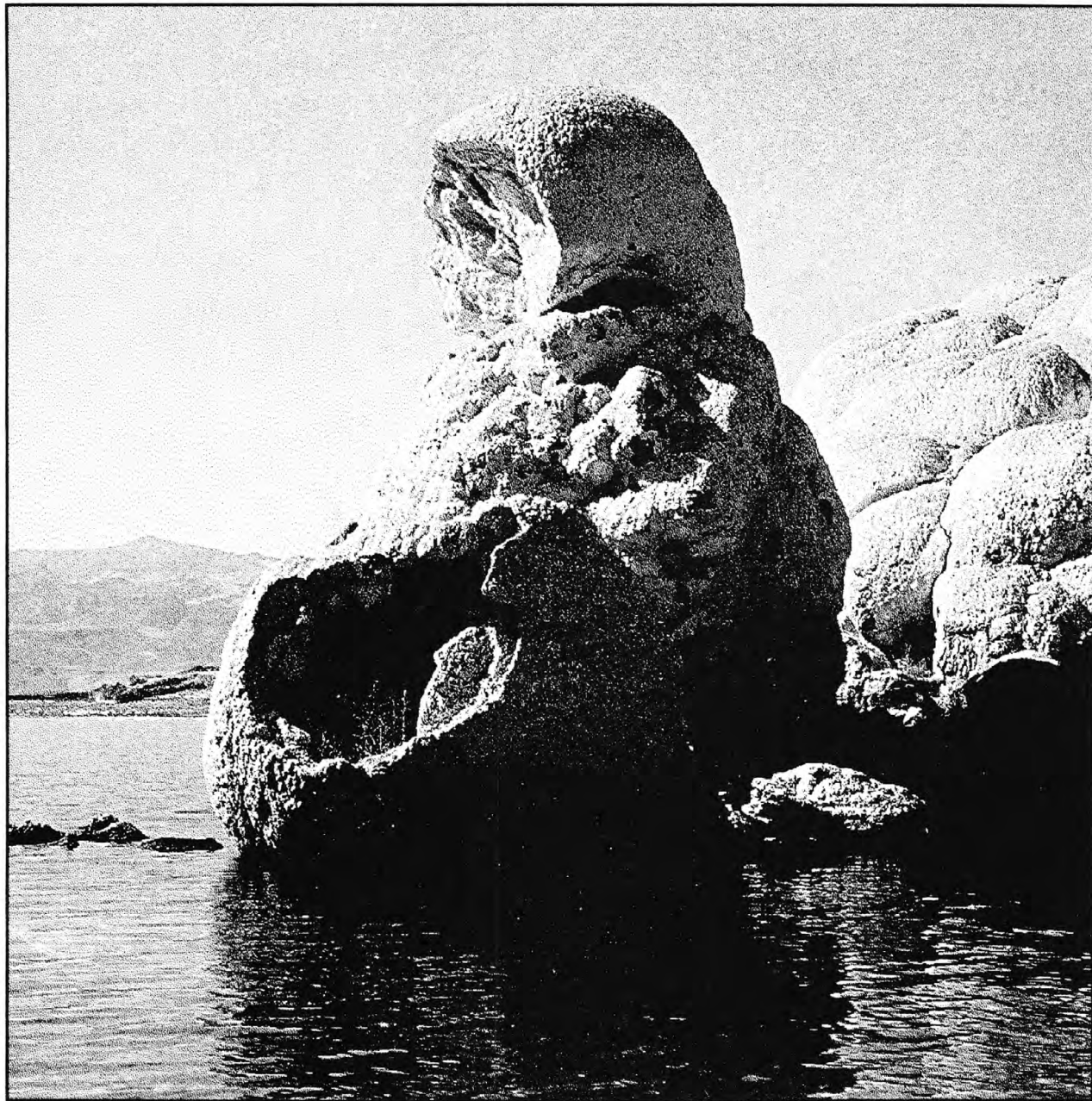
SUMMARY STATISTICS

FOR 1992 WATER YEAR

WATER YEARS 1991 - 1992

ANNUAL TOTAL	7950.48		
ANNUAL MEAN	21.7	21.7	
HIGHEST ANNUAL MEAN		21.7	1992
LOWEST ANNUAL MEAN		21.7	1992
HIGHEST DAILY MEAN	88	176	May 9 1991
LOWEST DAILY MEAN	.42	.42	Aug 4 1992
ANNUAL SEVEN-DAY MINIMUM	.72	.72	Jul 29 1992
INSTANTANEOUS PEAK FLOW	164	189	May 9 1991
INSTANTANEOUS PEAK STAGE	5.04	5.23	May 9 1991
ANNUAL RUNOFF (AC-FT)	15770	15740	
10 PERCENT EXCEEDS	49	127	
50 PERCENT EXCEEDS	17	21	
90 PERCENT EXCEEDS	2.3	3.8	

Stone Mother with Basket at Pyramid Lake, Nev.,



Photograph by Patrick A. Glancy



Annual Data Report, 1992

SURFACE-WATER RECORDS

LOCATION OF SPRING DISCHARGE SITES (figure 19)

Site number	Local number	Latitude	Longitude	Site name
2	139 N19 E50 16BCCA1	393133	1162122	BARTINE RANCH
3	139 N19 E50 16BCCC1	393129	1162129	BARTINE RANCH
4	139 N19 E50 17ADDC1	393127	1162135	BARTINE RANCH
5	153 N23 E54 03DBD 1	395403	1155204	THOMPSON RANCH SPRING
6	153 N24 E52 23DAC 1	395638	1160421	SHIPLEY HOT SPRING
7	155A N16 E53 08BCBB1	391637	1160218	FISH CREEK SPRINGS
8	173B N08 E55 14BCBB1	383325	1154547	HAY CORRAL SPRING
9	173B N08 E55 15AAAA1	383337	1154551	NORTH SPRING
10	173B N08 E55 15ACBD1	383321	1154614	BIG SPRING
11	173B N08 E55 15ADDB1	383317	1154556	REYNOLDS SPRINGS
12	173B N08 E57 11DDb 1	383347	1153139	BLUE EAGLE SPRINGS
13	173B N08 E57 27DACC1	383116	1153247	BUTTERFIELD SPRING
14	173B N12 E56 05ABCB1	385613	1154148	LITTLE WARM SPRING
15	173B N13 E56 32BACD1	385700	1154200	BIG WARM SPRING
16	179 N16 E63 29AAAA1	391345	1145355	MURRY SPRINGS
17	179 N18 E64 21BDDC1	392446	1144643	MCGILL SPRING
18	179 N19 E63 05CDC 1	393108	1145623	CAMBELLS EMBAYMENT
19	183 N10 E65 34CDAD1	384048	1143957	GEYSER SPRING
20	184 N20 E66 30DCC 1	393350	1143530	KALAMAZOO CREEK
21	203 S02 E68 04BADD1	374827	1142251	PANACA SPRING
22	207 N06 E61 18AADA1	382259	1150909	HOT CREEK SPRING
23	207 N07 E62 28ABDC1	382623	1150039	BUTTERFIELD SPRING
24	207 N07 E62 33BCAB1	382526	1150114	FLAG SPRING NO 1
25	207 N07 E62 33BCCB1	382522	1150120	FLAG SPRING NO 2
26	207 N07 E62 33BCCC1	382517	1150120	FLAG SPRING NO 3
27	207 N09 E61 32DABC1	383541	1150818	MOORMAN SPRING
28	207 N09 E62 19DB 1	383726	1150251	EMIGRANT SPRINGS
29	207 N11 E62 04ABAB1	385100	1150009	LUND SPRING
30	207 N12 E61 02ABAB1	385614	1150450	UNKNOWN (PRESTON)
31	207 N12 E61 02ACAB1	385601	1150450	PRESTON BIG SPRING
32	207 N12 E61 02DBCAB1	385542	1150458	INDIAN RANCH SPRING
33	207 N12 E61 12BDAD1	385505	1150357	COLD SPRINGS
34	207 N12 E61 12DBDD1	385445	1150337	NICHOLAS SPRINGS
35	207 N12 E61 12DCAD1	385439	1150337	UNKNOWN (PRESTON)
36	207 N12 E61 12DCCD1	385433	1150345	ARNOLDSON SPRING
37	209 S04 E60 14DBAB1	373554	1151252	HIKO SPRING
38	209 S05 E60 10ADBB1	373154	1151358	CRYSTAL SPRINGS
39	209 S06 E61 06BBBB1	372749	1151130	ASH SPRINGS
40	215 S18 E67 12DDAD1	362238	1142636	ROGERS SPRING
41	219 S14 E65 16AB 1	364329	1144311	MUDDY RIVER MAIN
42	219 S14 E65 16ABB 1	364327	1144308	MUDDY RIVER 10
43	219 S14 E65 16ABDD1	364319	1144255	MUDDY RIVER 18
44	219 S14 E65 16ACA 1	364319	1144258	MUDDY RIVER 4
45	219 S14 E65 16ACCA1	364311	1144304	MUDDY RIVER 2
46	219 S14 E65 16ACCD1	364310	1144304	MUDDY RIVER 1
47	219 S14 E65 16BBB 1	364333	1144338	MUDDY RIVER 9
48	219 S14 E65 16BCA 1	364314	1144330	MUDDY RIVER 6
49	219 S14 E65 16BCB 1	364315	1144339	MUDDY RIVER 7 AND 8
50	219 S14 E65 16BD 1	364316	1144319	MUDDY RIVER WEST
51	219 S14 E65 16BDBC1	364314	1144327	MUDDY RIVER 3
52	219 S14 E65 16BDBD1	364314	1144324	MUDDY RIVER 5
53	219 S14 E65 16DCB 1	364254	1144306	MUDDY RIVER 17
54	219 S14 E65 21AAAA1	364238	1144242	MUDDY RIVER 15
55	219 S14 E65 21AAAA2	364236	1144243	WARM SPRINGS EAST
56	219 S14 E65 21AAAB1	364234	1144252	WARM SPRINGS WEST
57	219 S14 E65 21AAAB2	364238	1144244	MUDDY RIVER 16
58	219 S14 E65 21AABB1	364238	1144252	MUDDY RIVER 11
59	219 S14 E65 21AABB2	364237	1144254	MUDDY RIVER 12
60	219 S14 E65 21AABB3	364236	1144254	MUDDY RIVER 13
61	219 S14 E65 21AABB4	364235	1144254	MUDDY RIVER 14
62	230 S17 E50 15ABDA1	362846	1161932	ROGERS SPRING
63	230 S17 E50 22ABAA1	362803	1161932	LONGSTREET SPRING
64	230 S18 E50 03ADBA1	362513	1161927	CRYSTAL POOL

LOCATION OF HIGH-ELEVATION PRECIPITATION SITES IN EASTERN NEVADA (figure 19)

3	400726	1145247	CHERRY CREEK RANGE
13	391913	1141431	UNNAMED PEAK NW OF MT MORIAH
14	391436	1153239	MT. HAMILTON
15	390946	1143649	CAVE MOUNTAIN
16	385409	1141854	MT. WASHINGTON
17	381438	1142333	MT. WILSON
18	363929	1151158	HAYFORD PEAK
19	363500	1151443	SHEEP PEAK
20	362240	1154621	TROUGH SPRING
21	361822	1154025	LEE CANYON
22	361457	1153733	KYLE CANYON
23	355641	1152946	POTOSI PEAK

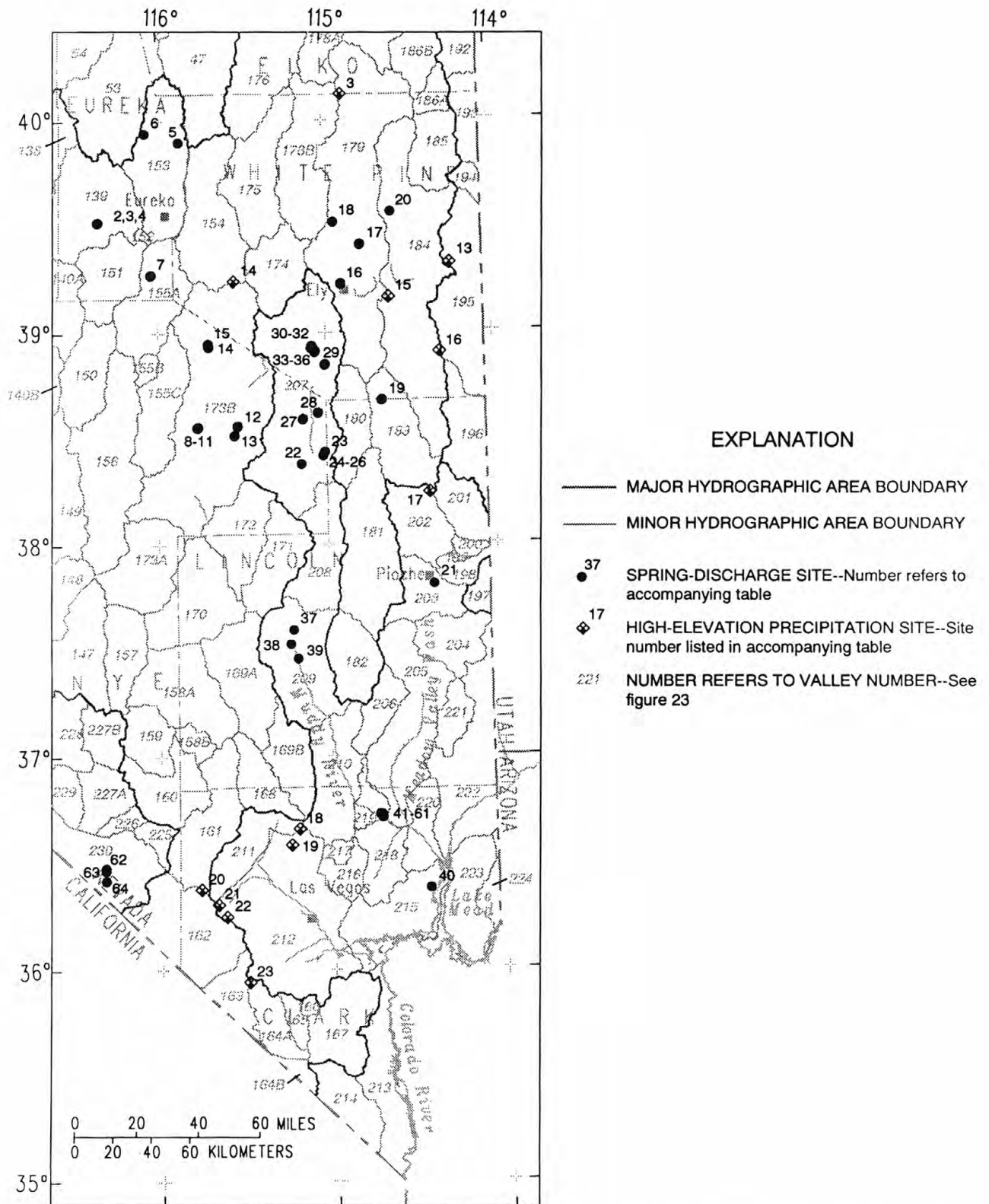


FIGURE 19.--Springs and high-elevation precipitation sites within carbonate-rock study area, eastern Nevada.

SPRING DISCHARGE

SPRING NUMBER	SITE IDENTIFICATION	SPRING NAME	OWNER	USE ¹	LAND SURFACE ELEVATION (FEET)	DISCHARGE			
						DATE	FT ³ /S	MEASURE- MENT METHOD ²	
139	N19 E50 16BCCA1	393133116212201	BARTINE RANCH	EUREKA RANCH CO	I	6102	10/25/91 03/18/92	.24 .26	C C
139	N19 E50 16BCCC1	393129116212901	BARTINE RANCH	EUREKA RANCH CO	I	6102	10/25/91 03/18/92	.27 .34	C C
139	N19 E50 17ADDC1	393127116213501	BARTINE RANCH	EUREKA RANCH CO	I	6102	10/25/91 03/18/92	.36 .39	C C
153	N23 E54 03DBD 1	395415115524301	THOMPSON RANCH SPRING	T. M. THOMPSON	I	5840	10/25/91 12/08/91 03/20/92	.02 .03 .19	E E C
153	N24 E52 23DAC 1	395628116042801	SHIPLEY HOT SPRING	GUY WEATHERLY	I	5812	10/25/91 12/08/91 03/20/92	4.63 4.69 5.50	E C C
155A	N16 E53 08BCBB1	391637116021801	FISH CREEK SPRINGS		I	6100	10/25/91 03/18/92	3.70 6.60	C C
173B	N08 E55 14BCBB1	383256115453301	HAY CORRAL SPRING	FISH CREEK RANCH	I	4770	10/21/91 03/20/92	.83 .83	C C
173B	N08 E55 15AAAA1	383323115454401	NORTH SPRING	FISH CREEK RANCH	I	4805	10/21/91 03/20/92	.38 .55	C C
173B	N08 E55 15ACBD1	383311115461501	BIG SPRING	FISH CREEK RANCH	I	4820	10/22/91 03/20/92	1.18 1.21	C C
173B	N08 E55 15ADDB1	383259115460301	REYNOLDS SPRINGS	FISH CREEK RANCH	I	4770	10/22/91 03/20/92	1.23 .99	C C
173B	N08 E57 11DDB 1	383346115313801	BLUE EAGLE SPRINGS	HOWARD SHARP	I	4765	10/22/91 03/20/92	5.34 5.33	C C
173B	N08 E57 27DACC1	383103115325301	BUTTERFIELD SPRING	CARL HANKS	I	4750	10/22/91	1.02	C
173B	N12 E56 05ABCB1	385552115421001	LITTLE WARM SPRING		I	5590	10/25/91 03/19/92	3.34 3.59	C C
173B	N13 E56 32BACD1	385650115421301	BIG WARM SPRING		I	5605	10/25/91 03/19/92	5.86 7.52	C C
179	N16 E63 29AAAA1	391345114535501	MURRY SPRINGS	CITY OF ELY	P	6600	10/26/91 12/03/91 03/19/92	3.47 3.52 3.56	C C C
179	N18 E64 21BDDC1	392502114464901	MCGILL SPRING	KENNECOTT COPPER	I	6100	11/06/91 03/19/92	9.78 9.91	C C
179	N19 E63 05CDC 1	393108114562301	CAMBELLS EMBAYMENT	WILLIAM G. DAVIDSON	I	6100	10/25/91 03/19/92	4.74 5.06	C C
183	N10 E65 34CDAD1	383953114005801	GEYSER SPRING		I	6480	10/21/91	.38	C
184	N20 E66 30DCC 1	393347114361801	KALAMAZOO CREEK		I	7200	10/21/91 03/16/92	2.65 2.49	C C
203	S02 E68 04BADD1	374827114225101	PANACA SPRING		I	4770	11/07/91 03/24/92	.42 1.74	C C
207	N06 E61 18AAD1	382259115090801	HOT CREEK SPRING	NEVADA DEPARTMENT OF FISH & WILDLIFE	I	5225	10/23/91 03/18/92	6.20 9.35	C C
207	N07 E62 28ABDC1	382624115004001	BUTTERFIELD SPRING	SUNNYSIDE RANCH	I	5320	10/23/91 03/18/92	3.38 3.05	C C
207	N07 E62 33BCAB1	382526115011401	FLAG SPRING NO 1		I	5290	10/23/91 03/18/92	2.02 2.22	C C
207	N07 E62 33BCCB1	382522115012001	FLAG SPRING NO 2		I	5280	10/23/91 03/18/92	2.80 2.97	C C
207	N07 E62 33BCCC1	382517115012001	FLAG SPRING NO 3		I	5290	10/23/91 03/18/92	1.90 1.68	C C
207	N09 E61 32DABC1	383540115081801	MOORMAN SPRING	DON ELDRIDGE	I	5295	10/24/91 03/19/92	.45 .58	C C

SPRING DISCHARGE

379

SPRING NUMBER	SITE IDENTIFICATION	SPRING NAME	OWNER	USE ¹	LAND SURFACE ELEVATION (FEET)	DISCHARGE			
						DATE	FT ³ /S	MEASURE- MENT METHOD ²	
207	N09 E62 19DB 1	383726115025101	EMIGRANT SPRINGS	I	5480	10/24/91 03/18/92	1.86 1.84	C C	
207	N11 E62 04AABA1	385158115000401	LUND SPRING	LUND IRRIGATION CO	I	5500	10/24/91 03/19/92	7.34 6.32	C C
207	N12 E61 02ABAB1	385614115045001	UNKNOWN (PRESTON)	JOSEPH STUCKI	I	5740	03/19/92	.25	C
207	N12 E61 02ACAB1	385540115045701	PRESTON BIG SPRING	PRESTON & LUND IRRIGATION CO	I	5700	10/24/91 03/19/92	7.89 8.47	C C
207	N12 E61 02DBCAB1	385542115045801	INDIAN RANCH SPRING		I	5720	10/24/91 03/19/92	.56 .36	C C
207	N12 E61 12BDAD1	385507114574801	COLD SPRINGS	LUND IRRIGATION CO	I	6020	10/24/91 03/19/92	2.24 1.78	C C
207	N12 E61 12DBDD1	385530115044601	NICHOLAS SPRINGS	LUND IRRIGATION CO	I	5700	10/24/91 03/19/92	2.60 .24	C C
207	N12 E61 12DCAD1	385439115033701	UNKNOWN (PRESTON)		I	5620	10/24/91 03/19/92	0 0	- -
207	N12 E61 12DCCD1	385539115045702	ARNOLDSON SPRING	PRESTON IRRIGATION	I	5700	10/24/91 03/19/92	3.98 4.13	C C
209	S04 E60 14DBAB1	373554115125201	HIKO SPRING		I	3875	11/04/91 03/25/92	4.24 5.28	C C
209	S05 E60 10ADBB1	373155115135801	CRYSTAL SPRINGS		I	3810	11/04/91 03/25/92	8.39 8.56	C C
209	S06 E61 06BBBB1	372749115113401	ASH SPRINGS		I	3615	11/04/91 03/25/92	16.70 17.00	C C
215	S18 E67 12DDAD1	362239114263501	ROGERS SPRING	NATIONAL PARK SERVICE	R	1590	03/23/92	1.14	C
219	S14 E65 16AB 1	364329114431101	MUDDY RIVER MAIN	CHURCH OF LATTER DAY SAINTS	I	1791	11/13/91 04/01/92	4.98 5.40	C C
219	S14 E65 16ABB 1	364327114430801	MUDDY RIVER 10	CHURCH OF LATTER DAY SAINTS	I	1650	11/13/91 04/01/92	3.34 3.97	C C
219	S14 E65 16ABDD1	364319114425501	MUDDY RIVER 18	CHURCH OF LATTER DAY SAINTS	I	1620	04/01/92	6.49	C
219	S14 E65 16ACA 1	364317114425801	MUDDY RIVER 4		I	1620	12/04/91 04/01/92	.03 .08	F C
219	S14 E65 16ACCA1	364311114430401	MUDDY RIVER 2	CHURCH OF LATTER DAY SAINTS	I	1620	12/04/91 04/01/92	.08 .12	F F
219	S14 E65 16ACCD1	364310114430401	MUDDY RIVER 1	CHURCH OF LATTER DAY SAINTS	I	1620	12/04/91 04/01/92	.16 .47	F F
219	S14 E65 16BBB 1	364333114433801	MUDDY RIVER 9	CHURCH OF LATTER DAY SAINTS	I	1650	11/12/91 12/04/91 04/01/92	0 0 0	- - -
219	S14 E65 16BCA 1	364314114433001	MUDDY RIVER 6	CHURCH OF LATTER DAY SAINTS	I	1650	11/12/91 12/04/91 04/01/92	0 0 0	- - -
219	S14 E65 16BCB 1	364316114433601	MUDDY RIVER 7 & 8	CHURCH OF LATTER DAY SAINTS	I	1650	11/12/91 12/04/91 04/01/92	0 0 0	- - -
219	S14 E65 16BD 1	364316114431901	MUDDY RIVER WEST	CHURCH OF LATTER DAY SAINTS	I	1794	11/13/91 04/01/92	4.37 .37	C C
219	S14 E65 16BDBC1	364314114432701	MUDDY RIVER 3	CHURCH OF LATTER DAY SAINTS	I	1650	12/04/91 04/01/92	.26 .24	F F
219	S14 E65 16BDBD1	364314114432401	MUDDY RIVER 5	CHURCH OF LATTER DAY SAINTS	I	1650	12/04/91 04/01/92	.19 .23	C V
219	S14 E65 16DCB 1	364251114430401	MUDDY RIVER 17	FREDRICK APCAR	I	1620	12/04/91 04/01/92	1.61 1.52	C C

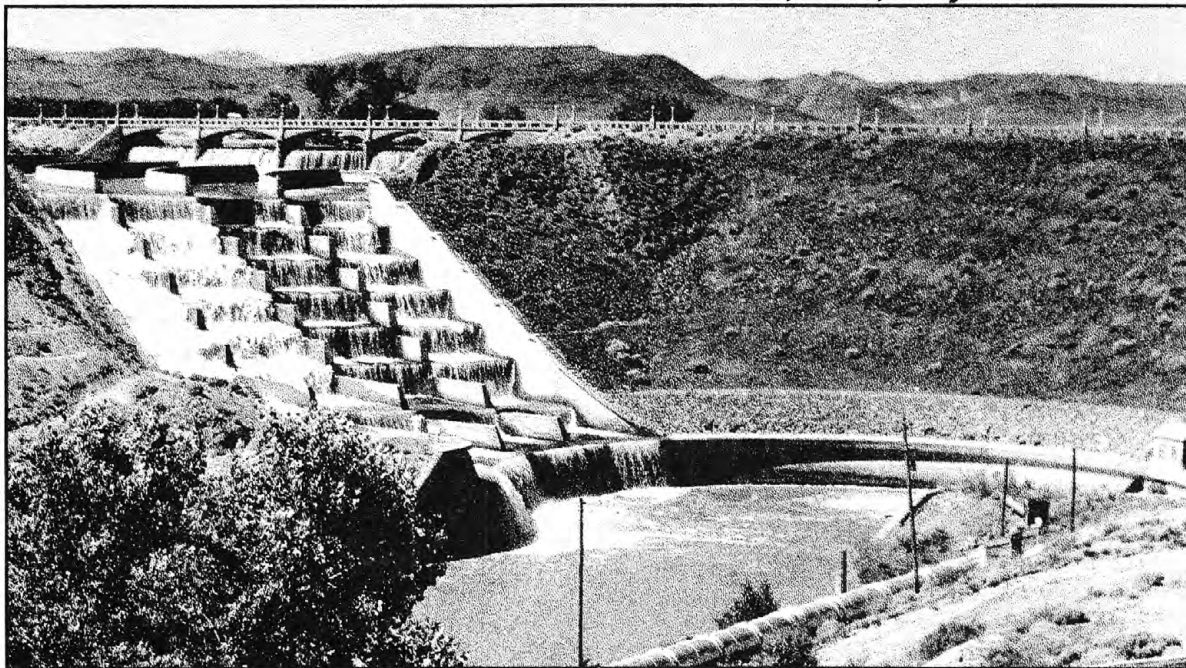
SPRING DISCHARGE

SPRING NUMBER	SITE IDENTIFICATION	SPRING NAME	OWNER	USE ¹	LAND SURFACE ELEVATION (FEET)	DISCHARGE			MEASURE-MENT METHOD ²
						DATE	FT ³ /S		
219	S14 E65 21AAAA1	364238114424201 MUDDY RIVER 15	WARM SPRINGS RESORT	I	1620	11/13/91 04/01/92	.95 1.21		C C
219	S14 E65 21AAAA2	364236114424301 WARM SPRINGS EAST	WARM SPRINGS LEISURE PARKS	I	1790	11/13/91 04/01/92	1.99 1.77		C C
219	S14 E65 21AAB1	364234114425201 WARM SPRINGS WEST	U.S. FISH & WILDLIFE	I	1790	04/01/92	3.12		C
219	S14 E65 21AAB2	364238114424401 MUDDY RIVER 16	WARM SPRINGS RESORT	I	1620	11/13/91 04/01/92	.18 .25		C C
219	S14 E65 21AAB1	364235114425201 MUDDY RIVER 11	U.S. FISH & WILDLIFE	I	1650	11/13/91 04/01/92	1.09 .99		C C
219	S14 E65 21AAB2	364237114425401 MUDDY RIVER 12	U.S. FISH & WILDLIFE	I	1650	11/13/91 04/01/92	.10 .08		C C
219	S14 E65 21AAB3	364236114425401 MUDDY RIVER 13	U.S. FISH & WILDLIFE	I	1650	11/13/91 04/01/92	.41 .55		C C
219	S14 E65 21AAB4	364235114425401 MUDDY RIVER 14	U.S. FISH & WILDLIFE	I	1650	04/01/92	.23		V
230	S17 E50 15ABD1	362835116192101 ROGERS SPRING	CALVADA CORP	I	2275	11/05/91 03/17/92	.93 1.20		F C
230	S17 E50 22ABAA1	362751116192701 LONGSTREET SPRING		I	2310	11/05/91 03/17/92	1.21 .80		C C
230	S18 E50 03ADBA1	362502116192301 CRYSTAL POOL	CALVADA CORP	I	2195	11/05/91 01/27/92 03/17/92 05/19/92 08/19/92	5.77 5.66 6.38 6.44 5.20		C C C C C

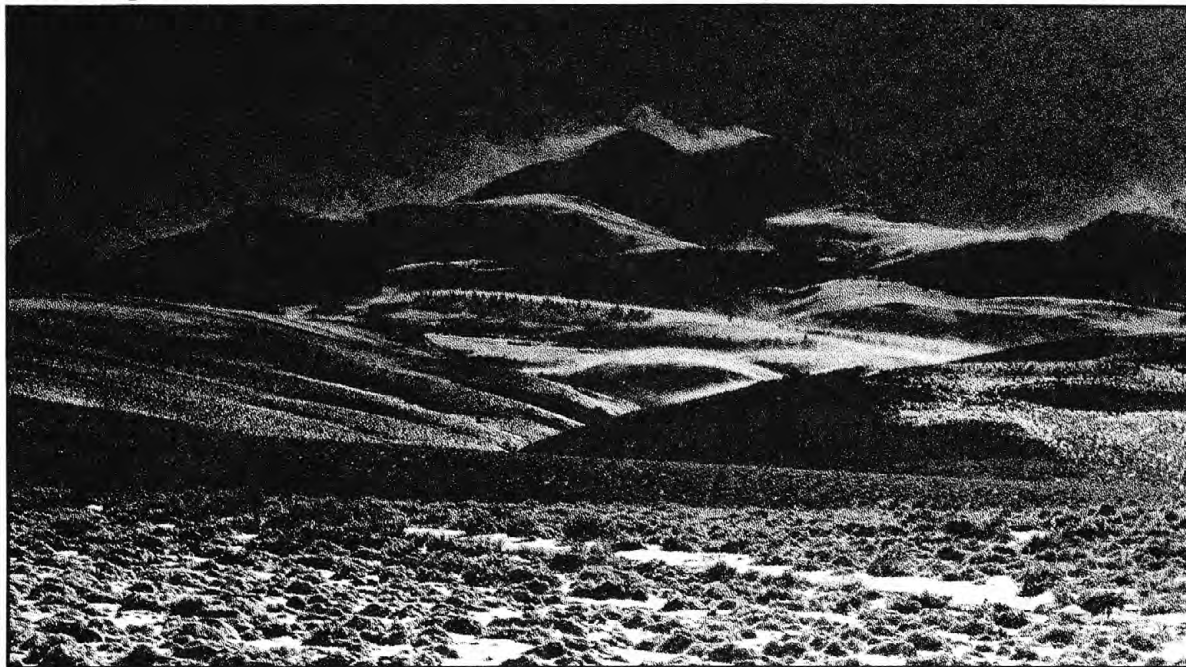
¹Uses: I, irrigation; R, recreation; P, public supply.

²Measurement method: C, current meter; E, estimated; F, flume; V, volumetric.

Overflow from Lahontan Reservoir near Fallon, Nev., July 1969



Blowing snow in the Sierra Nevada near Bridgeport, Calif., Jan 1969



Photographs by Patrick A. Glancy



Annual Data Report, 1992

SURFACE-WATER RECORDS

LOCATION OF HIGH-ELEVATION PRECIPITATION SITES IN
NORTHWESTERN NEVADA (figure 20)

Site number	Latitude	Longitude	Site name
1	405142	1193928	POODLE MOUNTAIN
2	404923	1200847	OBSERVATION PEAK
4	394401	1193954	BACON RIND FLAT
5	394221	1193749	CURNOW CANYON
6	394100	1194348	HUNGRY RIDGE NORTH
7	393903	1194525	HUNGRY RIDGE SOUTH
8	393824	1193634	SPANISH SPRINGS PEAK
9	393545	1194233	VISTA HILL TOP
10	393522	1193719	DRY LAKES
11	393515	1194432	OASIS TRAILER PARK
12	393418	1193941	CANOE HILL

SMOKE CREEK DESERT PRECIPITATION NETWORK

Smoke Creek Desert precipitation data are collected by Washoe County Department of Public Works Utility Division. Locations of following sites are shown in figure 20.

Station name	Site ID	Latitude	Longitude	Elevation (feet above sea level)	Period	Precipitation (inches)
POODLE MOUNTAIN	401542119392801	405142	1193928	6,050	05/30/91 TO 06/19/92 06/19/92 TO 11/06/92	7.50 4.69
OBSERVATION PEAK	404923120084701	404923	1200847	5,480	05/29/91 TO 06/18/92 06/18/92 TO 11/06/92	7.62 2.19

SPANISH SPRINGS VALLEY PRECIPITATION NETWORK

Station name	Site ID	Latitude	Longitude	Elevation (feet above sea level)	Period	Precipitation (inches)
BACON RIND FLAT	394401119395401	394401	1193954	5,052	09/04/92 TO 10/01/92	0.00
CURNOW CANYON	394221119374901	394221	1193749	5,709	09/04/92 TO 10/01/92	0.75
HUNGRY RIDGE NORTH	394100119434801	394100	1194348	4,954	07/14/92 TO 10/01/92	0.56
HUNGRY RIDGE SOUTH	393903119452501	393903	1194525	5,358	07/14/92 TO 10/01/92	0.57
SPANISH SPRINGS PEAK	393824119363401	393824	1193634	5,873	09/04/92 TO 09/24/92	0.68
VISTA HILL TOP	393545119423301	393545	1194233	4,710	08/03/92 TO 10/01/92	1.19
DRY LAKES	393522119371901	393522	1193719	5,282	08/03/92 TO 10/01/92	1.44
OASIS TRAILER PARK	393515119443201	393515	1194432	4,551	07/09/92 TO 10/01/92	0.90
CANOE HILL	393418119394101	393418	1193941	5,200	06/12/92 TO 10/01/92	1.18

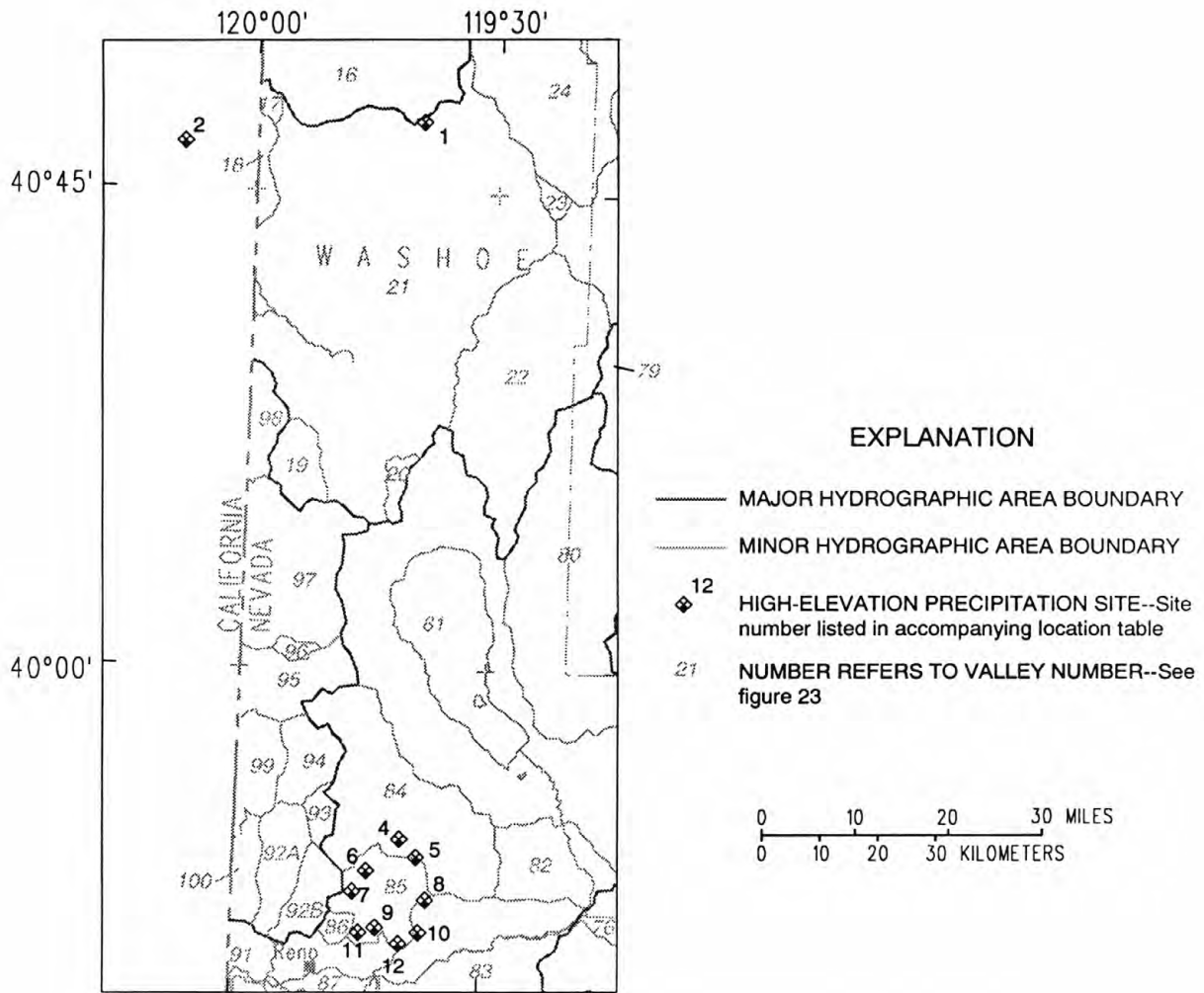


FIGURE 20.--High-elevation precipitation sites in northwestern Nevada.

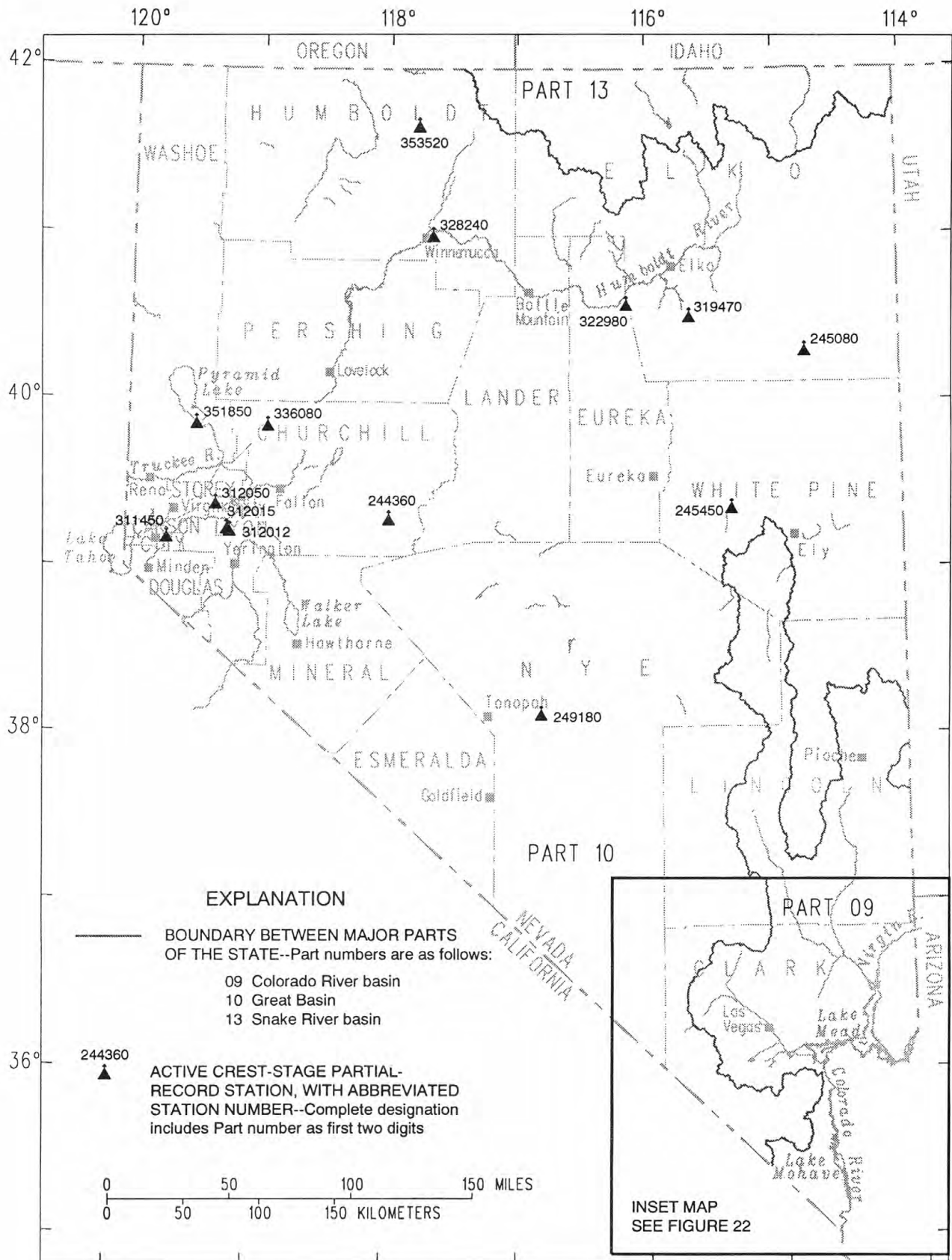
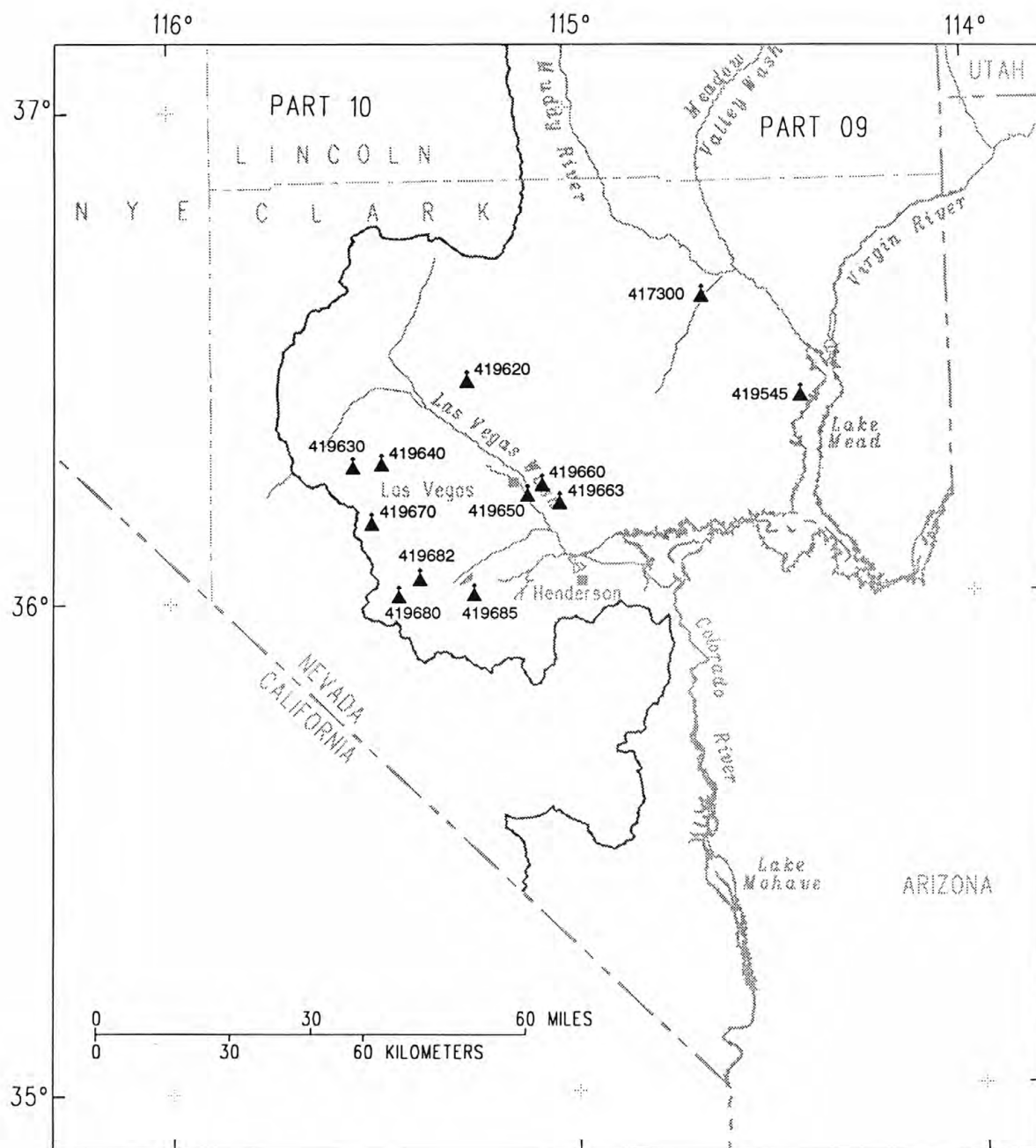


FIGURE 21.--Crest-stage partial-record stations listed in this report.



EXPLANATION

— BOUNDARY BETWEEN MAJOR PARTS OF THE STATE--Part numbers are as follows:

09 Colorado River basin

10 Great Basin

419680



ACTIVE CREST-STAGE PARTIAL- RECORD STATION, WITH ABBREVIATED STATION NUMBER--Complete designation includes Part number as first two digits

FIGURE 22.--Crest-stage partial-record stations, southeastern Nevada

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 1992. 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 always certain. Only the maximum discharge for the water year is given below. Information on peaks of lesser magnitude may have been obtained but is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined.

Station name and number	Location and drainage area	Period of record	1992 Measurements			Period of record maximum		
			Date	Gage height (feet)	Dis- charge (ft ³ /s)	Date	Gage height (feet)	Dis- charge (ft ³ /s)
Colorado River basin								
California Wash near Moapa, Nev. (09417300)	Lat 36°36'37", long 114°39'37", in SE1/4SE1/4 sec.24, T.15 S., R.65 E., Clark County, Hydrologic Unit 15010012, 1.6 miles northwest of Byron Interchange on Interstate Highway 15.	1987-92	3-29-92		E ₁₀₀	6-10-90	35.68	1,400
Valley of Fire Wash near Overton, Nev. (09419545)	Lat 36°24'18", long 114°25'05", in SE1/4SW1/4 sec.32, T.17 S., R.68 E., Clark County, Hydrologic Unit 15010005, on Northshore Road, 1.1 miles west of Fire Bay.	1984, 1987-92	3-15-92	41.62	E ₂₃₀	8-16-90	55.65	4,940
Mormon Wells Wash near Las Vegas, Nev. (09419620)	Lat 36°26'45", long 115°15'10", in NE1/4SW1/4 sec.27, T.17 S., R.60 E., Clark County, Hydrologic Unit 15010015, above Mormon Wells Road crossing, 6 miles east of Corn Creek Springs Headquarters of U.S. Fish and Wildlife Service, and 20 miles north of Las Vegas. Drainage area is 115 mi ² .	1962-92	3-03-92	3.86	E 3.0	8-84	--	480
Telephone Canyon near Charleston Park, Nev. (09419630)	Lat 36°16'20", long 115°32'30", in SE1/4NW1/4 sec.25, T.19 S., R.57 E., Clark County, Hydrologic Unit 15010015, at culvert on State Highway 157, and 5.8 miles east of Charleston Park. Drainage area is 7.20 mi ² .	1962-92	1992	--	*	12-06-66	7.78	2,500
Kyle Canyon near Charleston Park, Nev. (09419640)	Lat 36°16'40", long 115°28'10", in SE1/4SW1/4 sec.22, T.19 S., R.58 E., Clark County, Hydrologic Unit 15010015, 650 feet below culvert on State Highway 157, and 10 miles east of Charleston Park. Drainage area is 35.9 mi ² .	1961-92	8-92	2.12	E ₁₀	12-06-66	6.00	1,660
Las Vegas Wash at North Las Vegas, Nev. (09419650)	Lat 36°12'40", long 115°06'20", in SW1/4NE1/4 sec.13, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank, 100 feet upstream from State Highway 604, and 3.5 miles northeast of Fremont Street in Las Vegas. Estimated drainage area is 720 mi ² .	1963-78, 1982-92	3-29-92	--	513	7-03-75	9.64	12,010
Las Vegas Wash tributary near Nellis Air Force Base, Nev. (09419660)	Lat 36°11'55", long 115°04'05", in NW1/4NE1/4 sec.8, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, at culvert on Alternate State Highway 604, 1.5 miles southwest of Nellis Air Force Base. Drainage area is 18.1 mi ² .	1961-84, 1986-92	2-13-92	--	E 5.0	10-09-72	4.73	618
Las Vegas Wash tributary south of Nellis Air Force Base, Nev. (09419663)	Lat 36°11'40", long 115°01'30", near section line common to secs. 22 and 23, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, 0.1 mile south of Lake Mead Boulevard, and 3.7 miles south of main gate of Nellis Air Force Base. Drainage area is approximately 1.2 mi ² .	1963-81, 1983-92	3-07-92	--	E ₂₅	9-04-63	--	296
Red Rock Wash near Blue Diamond, Nev. (09419670)	Lat 36°09'30", long 115°29'45", in NE1/4NW1/4 sec.4, T.21 S., R.58 E., Clark County, Hydrologic Unit 15010015, 0.2 mile southeast of Willow Spring, and 9.3 miles northwest of Blue Diamond. Drainage area is 8.09 mi ² .	1962-92	1992	--	*	1-25-69	6.60	7,470

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

387

Crest-Stage Partial-Record Stations--Continued

Station name and number	Location and drainage area	Period of record	1992 Measurements			Period of record maximum		
			Date	Gage height (feet)	Dis- charge (ft ³ /s)	Date	Gage height (feet)	Dis- charge (ft ³ /s)
Colorado River basin--Continued								
Cottonwood Valley near Blue Diamond, Nev. (09419680)	Lat 36°00'35", long 115°25'50", in NE1/4NW1/4 sec.25, T.22 S., R.58 E., Clark County, Hydrologic Unit 15010015, at culverts on Cottonwood Valley Road, 3 miles southwest of Blue Diamond. Drainage area is 18.3 mi ² .	1961-92	3-27-92	--	E 5.0	1-25-69	8.53	1,100
Oak Creek Wash near Blue Diamond, Nev. (09419682)	Lat 36°02'41", long 115°22'38", in SW1/4SW1/4 sec.9, T.22 S., R.59 E., Clark County, Hydrologic Unit 15010015, on Blue Diamond Boulevard, 1.4 miles east of Blue Diamond.	1987-92	3-27-92	5.37	E 200	8-16-90	3.42	820
Bird Spring Wash near Arden, Nev. (09419685)	Lat 36°00'44", long 115°14'33", in NW1/4NW1/4 sec.26, T.22 S., R.60 E., Clark County, Hydrologic Unit 15010015, 0.5 mile southwest of Arden.	1987-92	3-27-92	--	E 5.0	7-16-90	--	18
Central Region								
Dixie Valley tributary near Eastgate, Nev. (10244360)	Lat 39°17'30", long 117°59'00", in SE1/4 sec.36, T.17 N., R.35 E., Churchill County, Hydrologic Unit 16060001, at culvert on U.S. Highway 50, and 6 miles west of Eastgate. Drainage area is approximately 11 mi ² .	1961-92	10-26-91	4.07	E 26.0	8-61	15.00	1,480
Nelson Creek tributary near Currie, Nev. (10245080)	Lat 40°18'00", long 114°46'20", in SE1/4 sec.17, T.28 N., R.64 E., Elko County, Hydrologic Unit 16060008, at culvert on former U.S. Highway 93, and 2.5 miles NW of Currie. Drainage area is approximately 0.7 mi ² .	1961-78, 1980-87, 1990-92	1992	--	*	8-77	5.43	52
Illipah Creek tributary near Hamilton, Nev. (10245450)	Lat 39°21'35", long 115°21'05", in NW1/4NE1/4 sec.8, T.17 N., R.59 E., White Pine County, Hydrologic Unit 16060007, at culvert on U.S. Highway 50, 100 feet upstream from Illipah Creek, and 10.5 miles northeast of Hamilton. Drainage area is 5.47 mi ² .	1962-87, 1990-92	1992	--	*	8-09-83	--	1,120
Saulsbury Wash near Tonopah, Nev. (10249180)	Lat 38°07'30", long 116°48'30", in SE1/4SW1/4 sec.10, T.3 N., R.46 E., Nye County, Hydrologic Unit 16060011, at culvert on U.S. Highway 6, and 23 miles east of Tonopah. Drainage area is approximately 56 mi ² .	1962-81, 1985, 1987-92	7-11-92	4.63	E 100	3-27-69	4.56	340
Carson River basin								
Brunswick Canyon near New Empire, Nev. (10311450)	Lat 39°10'20", long 119°41'10", in NW1/4NE1/4 sec.13, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050202, 0.3 mile upstream from mouth, and 2.5 miles east of New Empire. Drainage area is 12.7 mi ² .	1966-78, 1980-92	7-92	1.97	E 12	2-19-86	--	180
Adrian Valley tributary near Wabuska, Nev. (10312012)	Lat 39°12'55", long 119°12'25", in NE1/4SE1/4 sec.31, T.16 N., R.25 E., Lyon County, Hydrologic Unit 16050202, at culvert on former Alternate U.S. Highway 95, 4.8 miles northwest of Wabuska. Drainage area is 5.75 mi ² .	1968-81, 1987-92	1992	--	*	7-90	10.28	320

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-Stage Partial-Record Stations--Continued

Station name and number	Location and drainage area	Period of record	1992 Measurements			Period of record maximum		
			Date	Gage height (feet)	Dis- charge (ft ³ /s)	Date	Gage height (feet)	Dis- charge (ft ³ /s)
Carson River basin--Continued								
Adrian Valley tributary near Weeks, Nev. (10312015)	Lat 39°13'45", long 119°13'40", in NW1/4NW1/4 sec.30, T.16 N., R.25 E., Lyon County, Hydrologic Unit 16050202, at abandoned culvert on former Alternate U.S. Highway 95, 4.6 miles southeast of Weeks. Drainage area is 0.12 mi ² .	1968-81, 1987-92	3-27-92	5.06	E 0.3	5-10-87	--	8.0
Lahontan Reservoir tributary near Silver Springs, Nev. (10312050)	Lat 39°22'40", long 119°19'00", in SE1/4SW1/4 sec.32, T.18 N., R.24 E., Lyon County, Hydrologic Unit 16050202, at culvert on private road, 0.3 mile south of U.S. Highway 50, and 5.5 miles southwest of Silver Springs. Drainage area is 4.39 mi ² .	1962-78, 1981-92	1992	--	*	8-05-74	--	920
Humboldt River basin								
Willow Creek tributary near Jiggs, Nev. (10319470)	Lat 40°30'47", long 115°39'42", in SW1/4NW1/4 sec.3, T.30 N., R.56 E., Elko County, Hydrologic Unit 16040103, at culvert on State Highway 228, and 6 miles north of Jiggs. Drainage area is 0.82 mi ² .	1962-78, 1982-92	2-92	--	E 2.0	3-83	3.80	15.0
Cole Creek near Palisade, Nev. (10322980)	Lat 40°35'05", long 116°08'55", in SE1/4NE1/4 sec.7, T.31 N., R.52 E., Eureka County, Hydrologic Unit 16040104, at culvert on State Highway 278, 3.2 miles southeast of Palisade. Drainage area is 11.4 mi ² .	1962-83, 1985-92	9-92	--	E 0.1	6-83	--	1,090
Humboldt River tributary near Bliss, Nev. (10328240)	Lat 40°59'55", long 117°39'30", in SE1/4NE1/4 sec.14, T.36 N., R.38 E., Humboldt County, Hydrologic Unit 16040108, at culvert on Interstate Highway 80, 5 miles northeast of Winnemucca. Drainage area is approximately 1.90 mi ² .	1968-78, 1980-92	1992	--	*	7-18-73	5.96	113
Humboldt Slough tributary near Bradys Hot Springs, Nev. (10336080)	Lat 39°51'05", long 118°55'40", in NE1/4NE1/4 sec.22, T.23 N., R.27 E., Churchill County, Hydrologic Unit 16040108, at culvert on Interstate Highway 80 and Alternate U.S. Highway 95, 6.5 miles northeast of Bradys Hot Springs. Drainage area is 11.0 mi ² .	1962-81, 1984-85, 1987-92	7-14-92	--	E 50	8-84	10.29	710
Pyramid and Winnemucca Lakes basin								
Pyramid Lake tributary near Nixon, Nev. (10351850)	Lat 39°51'30", long 119°28'32", in SW1/4SE1/4 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 miles west of Nixon. Drainage area is 1.94 mi ² .	1968-79, 1981-90, 1992	1992	--	*	2-19-86	3.87	950
Black Rock Desert basin								
Eagle Creek near Orovada, Nev. (10353520)	Lat 41°39'05", long 117°46'40", in SW1/4NE1/4 sec.35, T.44 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, at culvert on U.S. Highway 95, 5.6 miles north of Orovada. Drainage area is 3.44 mi ² .	1962-78, 1981-92	1992	--	*	6-84	6.26	10

E Estimated.

* No evidence of any flow during the water year.

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)
Great Salt Lake basin					
Hendrys Creek near Baker, Nev.	Snake Valley	Lat 39°12'38", long 114°04'44", in SE1/4NE1/4 sec.34, T.16 N., R.70 E., White Pine County, Hydrologic Unit 16020301, about 1.7 mi west of Nevada-Utah border, and about 13.8 mi northeast from Baker.	1991-92	10-24-91 12-07-91 3-18-92 6-25-92	1.30 1.21 1.26 0.77
Lexington Creek near Baker, Nev.	Snake Valley	Lat 38°51'29", long 114°07'36", in SE1/4NW1/4 sec.4, T.11 N., R.70 E., White Pine County, Hydrologic Unit 16020301, about 7.7 mi southwest of Garrison, Utah, and about 10.6 mi south of Baker.	1991-92	10-24-91 12-07-91 6-25-92	0 0 0
Baker Creek at Narrows, near Baker, Nev. (10243240)	Snake Valley	Lat 38°59'25", long 114°13'04", in NE1/4NW1/4 sec.22, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, about 1.1 mi south of Lehman Caves, and about 5.5 mi southwest of Baker.	1991-92	10-24-91 12-06-91 3-18-92 6-25-92	5.54 3.15 4.04 11.2
Lehman Creek near Baker, Nev. (10243260)	Snake Valley	Lat 39°00'42", long 114°12'50", in NW1/4SE1/4 sec.10, T.13 N., R.69 E., White Pine County, Hydrologic Unit 16020301, about 0.5 mi northeast from Lehman Caves, and about 4.8 mi west from Baker. Drainage area is 11 mi ² , approximately.	1948-55, ⁺ 1977, 1987-88, 1990-92	10-24-91 12-06-91 3-18-92 6-25-92	2.85 1.78 1.50 6.72
Central Region					
Eastgate Wash near Eastgate, Nev.	--	Lat 39°17'38", long 117°59'27", in NE1/4SW1/4 sec.36, T.17 N., R.35 E., Churchill County, Hydrologic Unit 16060001, about 3.0 mi east of State Highway 361, and about 6.0 mi west of Eastgate.	1992	3-16-92	0.16
Odgers Creek near McGill, Nev. (10243745)	Spring Valley	Lat 39°24'08", long 114°31'40", in NE1/4NE1/4 sec.27, T.18 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at canyon mouth, about 1.2 mi west of State Highway 893, and about 13.4 mi east of McGill.	1973-80, 1991-92	10-23-91 12-03-91 3-17-92 6-24-92	1.24 .98 1.06 1.41
Bassett Creek near McGill, Nev. (10243750)	Spring Valley	Lat 39°26'31", long 114°32'00", in SW1/4NE1/4 sec.10, T.18 N., R.66 E., White Pine County, Hydrologic Unit 16060008, about 1.8 mi west of State Highway 893, and about 13.0 mi northeast of McGill.	1968-80, 1991-92	10-22-91 12-03-91 3-16-92 6-24-92	2.15 2.54 1.72 1.99
Kalamazoo Creek near McGill, Nev. (10243800)	Spring Valley	Lat 39°33'48", long 114°33'13", in SE1/4SW1/4 sec.28, T.20 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at canyon mouth, about 1.2 mi west of State Highway 893, and about 17 mi northeast of McGill.	1983-85, 1991-92	10-22-91 12-03-91 3-16-92 6-24-92	3.18 3.02 3.42 3.03
McCoy Creek near McGill, Nev.	Spring Valley	Lat 39°22'27", long 114°31'39", in NE1/4NE1/4 sec.3, T.17 N., R.66 E., White Pine County, Hydrologic Unit 16060008, at canyon mouth, about 1.7 mi west of State Highway 893, and about 13.8 mi southeast of McGill.	1991-92	10-22-91 12-03-91 3-17-92 6-24-92	3.49 2.89 2.78 3.63
Taft Creek near McGill, Nev.	Spring Valley	Lat 39°20'29", long 114°31'46", in NE1/4NE1/4 sec.15, T.17 N., R.66 E., White Pine County, Hydrologic Unit 16060008, about 2.3 mi south of McCoy Creek, about 2.4 mi west of State Highway 893, and about 14 mi southeast of McGill.	1991-92	10-23-91 12-04-91 3-17-92 6-24-92	0.71 0.77 0.37 1.22

⁺ Operated as a continuous record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Miscellaneous Sites--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Central Region--Continued					
Cooper Canyon Creek near Ely, Nev.	Spring Valley	Lat 39°06'02", long 114°34'15", in SE1/4SW1/4 sec.4, T.14 N., R.66 E., White Pine County, Hydrologic Unit 16060008, about 2.2 mi west of State Highway 893, about 5.2 mi north of junction for U.S. Highways 6, 50, and 93, and about 18.4 mi southeast of Ely.	1991-92	10-22-91	0
				12-05-91	0
				3-17-92	0
				6-25-92	0
Willard Creek near Baker, Nev.	Spring Valley	Lat 39°01'45", long 114°22'36", in SW1/4SE1/4 sec.31, T.14 N., R.68 E., White Pine County, Hydrologic Unit 16060008, about 2.6 mi southeast of Hogum, about 10.8 mi east of junction for U.S. Highways 6, 50, and 93, and about 14.6 mi west of Baker.	1991-92	10-24-91	0.29
				12-03-91	1.39
				3-17-92	0.62
				6-25-92	0.28
Water Canyon Creek near Nyala, Nev.	Railroad Valley	Lat 38°06'31", long 115°50'28", in NW1/4NW1/4 sec.19, T.3 N., R.55 E., Nye County, Hydrologic Unit 16060012, about 4 mi north of Nye and Lincoln County line, about 9.8 mi southeast of Nyala, and about 35 mi east of Warm Springs.	1991-92	12-06-91	0
				3-26-92	0
				9-22-92	0
Troy Canyon near Nyala, Nev.	Railroad Valley	Lat 38°20'47", long 115°35'05", in SE1/4 sec.29, T.6 N., R.57 E., Nye County, Hydrologic Unit 16060012, in Troy Canyon, about 2.5 mi from Valley Road, and about 10.2 mi northeast of Nyala.	1992	6-19-92	1.41
				9-22-92	0.10
Willow Creek near Nyala, Nev.	Railroad Valley	Lat 38°12'49", long 115°43'59", in SE1/4SE1/4 sec.12, T.4 N., R.55 E., Nye County, Hydrologic Unit 16060012, about 2.4 mi south of Nyala, and about 35 mi east of Warm Springs.	1991-92	12-06-91	0
				3-26-92	0.23
				6-19-92	1.91
				9-22-92	0.60
Carson River basin					
Luther Creek near Fredericksburg, Calif. (10310330)	West Fork Carson River	Lat 38°51'26", long 119°48'32", in SW1/4SE1/4 sec.35, T.12 N., R.19 E., Alpine County, Hydrologic Unit 16050201, about 2.4 mi northwest of Fredericksburg. Drainage area is 4.42 mi ² .	1976-77	12-30-91	1.39
			1981-83	4-01-92	1.55
			1989-92	7-06-92	0.77
				9-30-92	0.87
Jobs Canyon Creek near Minden, Nev. (10310360)	West Fork Carson River	Lat 38°53'26", long 119°50'20", in SW1/4NW1/4 sec.22, T.12 N. R.19 E., Douglas County, Hydrologic Unit 16050201, about 3.6 mi southwest of Centerville. Drainage area is 2.97 mi ² .	1976	12-30-91	0.49
			1981-83	4-01-92	0.55
			1989-92	7-06-92	0.21
				9-30-92	0.25
Sheridan Creek near Minden, Nev. (10310370)	West Fork Carson River	Lat 38°53'46", long 119°50'49", in SE1/4SE1/4 sec.16, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, about 3.8 mi west of Centerville. Drainage area is 0.23 mi ² .	1981-83	12-30-91	0.50
			1989-92	4-01-92	0.57
				7-06-92	0.36
				9-30-92	0.50
Mott Canyon Creek near Minden, Nev. (10310385)	West Fork Carson River	Lat 38°55'44", long 119°50'57", in NW1/4SE1/4 sec.4, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.8 mi upstream from Foothill Road, and 5.5 mi southwest of Minden. Drainage area is 2.0 mi ² , approximately.	1969	12-30-91	1.75
			1971-73	4-01-92	1.60
			1976-77	7-06-92	1.38
			1981-83	9-30-92	1.42
			1987-92		

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

391

Miscellaneous Sites--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Carson River basin--Continued					
Genoa Canyon Creek at Genoa, Nev. (10310410)	Carson River	Lat 39°00'02", long 119°51'00", in SE1/4SW1/4 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 .	1969,	12-30-91	0.71
			1972,	4-01-92	0.89
			1976-77	7-06-92	0.38
			1981-82	9-30-92	0.53
			1988-92		
Sierra Canyon Creek near Genoa, Nev. (10310415)	Carson River	Lat 39°01'01", long 119°50'52", in NW1/4SE1/4 sec.4, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.9 mi north of Genoa. Drainage area is 3.15 mi ² .	1969,	12-30-91	0.76
			1972,	4-01-92	0.86
			1976-77	7-06-92	0.39
			1981-83	9-30-92	0.36
			1989-92		
Humboldt River basin					
Tenmile Creek above South Fork Humboldt River near Elko, Nev. (10319950)	South Fork Humboldt River	Lat 40°41'17", long 115°42'33", in SW1/4NW1/4 sec.4, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, about 1000 ft upstream of confluence of South Fork Humboldt River, 0.5 mi northwest of South Fork Dam, and 10 mi south of Elko.	1990-91 ⁺	10-17-91	2.58
			1992	11-22-91	4.65
				1-15-92	3.08
				2-27-92	5.23
				4-22-92	3.55
				6-11-92	0.65
				7-22-92	0.66
				8-28-92	0.82

⁺ Operated as a continuous record station.

Great Basin National Park Seepage Investigation

A series of discharge measurements were made during the 1992 water year, September 1 and 2 on Baker and Lehman Creeks, and September 3 on Snake Creek. The measurements were made during periods of base flow and no measurable precipitation had fallen. River miles were measured upstream (-) or downstream (+) from Lehman and Baker Creek gage sites, and Spring Creek rearing station along Snake Creek. Abbreviations: deg. C, degrees Celsius; e, estimated; ft³/s, cubic feet per second; uS, microsiemens per centimeter at 25 degrees Celsius.

River mile	Stream	Latitude	Longitude	Measurements		Water temperature (deg. C)	Specific conductance (uS)
				Date	Discharge (ft ³ /s)		
Lehman Creek							
-5.49	Lehman Creek tributary	39°00'35"	114°18'07"	9-01-92	0.03	--	53
-5.47	Lehman Creek	39°00'35"	114°18'07"	9-01-92	.15	--	28
-5.45	Lehman Creek	39°00'35"	114°18'06"	9-01-92	.21	--	31
-5.13	Lehman Creek	39°00'40"	114°17'46"	9-01-92	.27	--	35
-5.47	Lehman Creek tributary	39°00'26"	114°17'55"	9-01-92	e1.5	--	20
-4.13	Lehman Creek	39°00'58"	114°16'53"	9-01-92	1.46	--	29
-3.64	Lehman Creek tributary	39°01'00"	114°16'23"	9-01-92	.08	--	68
-3.57	Lehman Creek	39°00'56"	114°16'21"	9-01-92	1.33	--	32
-2.48	Lehman Creek	39°00'44"	114°15'13"	9-01-92	4.71	--	36
-1.44	Lehman Creek	39°01'01"	114°14'10"	9-01-92	3.42	--	37
-0.11	Lehman Creek tributary	39°00'49"	114°12'54"	9-01-92	.34	--	37
- .06	Lehman Creek	39°00'46"	114°12'53"	9-01-92	4.09	--	37
.41	Lehman Creek	39°00'35"	114°12'26"	9-02-92	3.45	10.0	36
.43	Lehman Creek tributary	39°00'35"	114°12'25"	9-02-92	.22	10.5	163
.49	Lehman Creek tributary	39°00'35"	114°12'21"	9-02-92	3.72	10.0	133
1.79	Lehman Creek	39°00'36"	114°11'00"	9-02-92	6.52	9.0	88
2.48	*	39°00'28"	114°10'13"	9-02-92	1.69	18.0	91
2.49	Lehman Creek	39°00'29"	114°10'14"	9-02-92	6.63	16.0	90
2.49	Lehman Creek tributary	39°00'30"	114°10'13"	9-02-92	.30	20.0	88
2.61	Lehman Creek	39°00'28"	114°10'06"	9-02-92	8.13	16.5	91
4.44	Lehman Creek	39°00'40"	114°08'08"	9-02-92	6.74	16.0	92
4.64	Lehman Creek	39°00'44"	114°07'51"	9-02-92	4.79	17.0	92
5.21	Lehman Creek	39°00'36"	114°07'20"	9-02-92	3.37	17.0	--
Baker Creek							
-3.05	Baker Creek	38°58'28"	114°14'56"	9-01-92	4.07	8.0	22
-3.06	Baker Creek tributary	38°58'24"	114°14'53"	9-01-92	0.61	8.5	41
-2.76	Baker Creek	38°58'34"	114°14'39"	9-01-92	3.43	--	--
-2.74	Baker Creek tributary	38°58'31"	114°14'37"	9-01-92	.93	8.5	41
-2.70	Timber Creek	38°58'35"	114°14'33"	9-01-92	.01	11.0	93
-2.63	Baker Creek	38°58'38"	114°14'32"	9-01-92	3.91	10.0	29
-2.14	Baker Creek	38°59'02"	114°14'28"	9-01-92	3.97	10.5	29
-1.67	Baker Creek tributary	38°59'23"	114°14'09"	9-01-92	.02	13.0	40
-1.15	Baker Creek	38°59'26"	114°13'37"	9-01-92	5.30	12.0	34
-0.92	Baker Creek	38°59'23"	114°13'22"	9-02-92	4.05	11.0	34
- .78	Baker Creek	38°59'27"	114°13'13"	9-02-92	4.11	11.0	33
- .47	Baker Creek	38°59'22"	114°12'55"	9-01-92	1.45	12.0	36
.03	Baker Creek	38°59'26"	114°12'22"	9-01-92	1.01	13.0	35
.55	Unnamed Spring	38°59'42"	114°11'56"	9-02-92	.31	11.0	168
.93	Baker Creek	38°59'46"	114°11'30"	9-02-92	1.30	16.0	50
1.16	Baker Creek	38°59'50"	114°11'15"	9-02-92	.13	19.5	121
1.22	Baker Creek diversion	38°59'57"	114°11'16"	9-02-92	1.30	17.5	72
*	Baker Creek diversion	39°00'28"	114°10'13"	9-02-92	1.69	18.0	91

* Site on Lehman Creek (at mileage 2.48), site is at the confluence of Baker diversion and Lehman Creek.

River mile	Stream	Latitude	Longitude	Measurements		Water temperature (deg. C)	Specific conductance (uS)
				Date	Discharge (ft ³ /s)		
Snake Creek							
-8.51	Snake Creek tributary	38°55'33"	114°14'54"	9-03-92	.61	9.5	73
-8.61	Snake Creek	38°55'31"	114°15'01"	9-03-92	1.31	8.5	113
-8.39	Snake Creek	38°55'30"	114°14'48"	9-03-92	1.98	9.5	343
-7.98	Snake Creek	38°55'28"	114°14'21"	9-03-92	1.51	9.5	105
-7.58	Snake Creek	38°55'20"	114°13'57"	9-03-92	1.52	10.0	106
-7.30	Snake Creek	38°55'17"	114°13'40"	9-03-92	1.37	10.0	110
-7.07	Snake Creek	38°55'18"	114°13'25"	9-03-92	1.23	10.5	115
-3.88	Snake Creek tributary	38°54'44"	114°10'14"	9-03-92	0.16	13.0	99
-3.81	Snake Creek	38°54'45"	114°10'10"	9-03-92	1.60	9.5	142
-3.19	Snake Creek	38°54'42"	114°09'29"	9-03-92	1.58	11.0	155
-2.71	Snake Creek	38°54'50"	114°09'00"	9-03-92	1.30	12.0	162
-2.12	Snake Creek	38°55'06"	114°08'30"	9-03-92	1.54	11.5	216
-1.51	Snake Creek	38°55'08"	114°07'50"	9-02-92	.86	12.0	215
-1.26	Snake Creek	38°55'09"	114°07'33"	9-03-92	.62	13.0	216
-0.52	Snake Creek	38°55'06"	114°06'48"	9-03-92	1.83	13.5	320
.01	Spring Creek	38°55'00"	114°06'13"	9-03-92	1.73	14.5	378
.31	Snake Creek	38°55'07"	114°05'56"	9-03-92	3.11	15.0	354
1.06	Snake Creek	38°55'19"	114°05'13"	9-03-92	2.87	15.0	362
1.06	Snake Creek	38°55'19"	114°05'13"	9-03-92	2.62	--	--
1.76	Snake Creek	38°55'33"	114°04'31"	9-03-92	3.12	15.5	356
2.15	Snake Creek	38°55'34"	114°04'06"	9-03-92	2.58	15.5	334
2.58	Snake Creek	38°55'34"	114°03'39"	9-03-92	1.82	16.0	316
3.22	Snake Creek	38°55'46"	114°03'02"	9-03-92	2.03	16.5	318

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Truckee and Carson Rivers, Low-flow Investigation

Discharge measurements in the following table were made along the Truckee River by Federal Watermaster and U.S. Geological Survey personnel. Discharge has been determined from gage height records provided by Federal Watermaster at sites with an *. Discharge provided by Reno-Sparks Wastewater Treatment Plant at site with **.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin					
Truckee River at Tahoe City, Calif. (10337500)	Pyramid Lake	Lat 39°09'59", long 120°08'36", in NE1/4NW1/4 sec.7, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050102, about 500 ft downstream of Lake Tahoe at Tahoe City, and at mi 116.2 upstream from Marble Bluff Dam. Drainage area is 507 mi ² .	1895-96, 1900-92 ⁺	10-30-91 9-08-92	0.24 .11
Truckee River at Rampart, near Tahoe City, Calif. (390954120103700)	Pyramid Lake	Lat 39°09'54", long 120°10'37", in SW1/4NE1/4 sec.11, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 2 mi downstream of Lake Tahoe and about 2.2 mi southwest of Tahoe City.	1991-92	10-30-91	.68
Truckee River above Bear Creek, near Alpine Meadows, Calif. (391108120113900)	Pyramid Lake	Lat 39°11'08", long 120°11'39", in SW1/4SW1/4 sec.34, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.7 mi southeast of Squaw Valley, about 3.1 mi northwest of Tahoe City, and at mi 112.2 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	1.70 .76
Bear Creek at mouth, near Alpine Meadows, Calif. (391125120114900)	Truckee River	Lat 39°11'25", long 120°11'49", in NW1/4SW1/4 sec.34, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.5 mi southeast of Squaw Valley, and about 3.3 mi northwest of Tahoe City.	1991-92	10-30-91 9-08-92	1.45 .29
Truckee River at Highway 89 Bridge, near Squaw Valley, Calif. (391146120115000)	Pyramid Lake	Lat 39°11'46", long 120°11'50", in NE1/4NE1/4 sec.33, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.1 mi southeast of Squaw Valley, and about 3.5 mi northwest of Tahoe City.	1991-92	10-30-91	3.20
Truckee River above Squaw Creek, near Squaw Valley, Calif. (391240120115000)	Pyramid Lake	Lat 39°12'40", long 120°11'50", in NW1/4NW1/4 sec.27, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.0 mi northeast of Squaw Valley, about 4.2 mi northwest of Tahoe City, and at mi 110.2 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	4.21 .83
Squaw Creek at Highway 89, near Squaw Valley, Calif. (10337855)	Truckee River	Lat 39°12'42", long 120°11'57", in NE1/4NE1/4 sec.28, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.0 mi northeast of Squaw Valley, and about 4.2 mi northwest of Tahoe City.	1991-92	10-30-91 9-08-92	2.63 .02
Truckee River below Squaw Creek, near Squaw Valley, Calif. (391240120115000)	Pyramid Lake	Lat 39°12'44", long 120°11'54", in NW1/4NW1/4 sec.27, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 150 downstream from Squaw Creek, about 1.0 mi northeast Squaw Valley, and about 4.2 mi mi northwest of Tahoe City.	1992	10-30-91	7.32
Truckee River above Deer Creek near Squaw Valley, Calif.	Pyramid Lake	Lat 39°13'18", long 120°11'57", in SE1/4NE1/4 sec.21, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.3 mi northeast of Squaw Valley, and about 4.7 mi northwest of Tahoe City.	1992	9-08-92	1.62
Deer Creek at mouth, near Squaw Valley, Calif. (391319120115500)	Truckee River	Lat 39°13'19", long 120°11'55", in SE1/4NE1/4 sec.21, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 1.3 mi northeast of Squaw Valley, about 4.7 mi northwest of Tahoe City, and at mi 109.3 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	.92 .57

⁺ Operated as a continuous record station.

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Truckee River above Pole Creek near Squaw Valley, Calif.	Pyramid Lake	Lat 39°14'13", long 120°12'19", in SW1/4NE1/4 sec.16, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 2.1 mi northeast of Squaw Valley, about 5.7 mi northwest of Tahoe City, and at mi 108.1 upstream from Marble Bluff Dam.	1992	9-08-92	2.12
Pole Creek at mouth, near Squaw Valley, Calif. (391402120122100)	Truckee River	Lat 39°14'02", long 120°12'21", in SW1/4NE1/4 sec.16, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 2.1 mi northeast of Squaw Valley, and about 5.7 mi northwest of Tahoe City.	1991-92	10-31-91 9-08-92	.40 0
Truckee River above Deep Creek near Truckee, Calif.	Pyramid Lake	Lat 39°15'28", long 120°12'28", in SE1/4SW1/4 sec.4, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 5.0 mi southwest of Truckee, and at mi 106.4 upstream from Marble Bluff Dam.	1992	9-08-92	2.30
Deep Creek at mouth, near Truckee, Calif. (391529120123300)	Truckee River	Lat 39°15'29", long 120°12'33", in SE1/4SW1/4 sec.4, T.16 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 400 ft upstream from Truckee River, and about 5.0 mi southwest of Truckee.	1991-92	10-30-91 9-08-92	.82 .39
Cabin Creek at Highway 89, near Truckee, Calif. (391642120122100)	Truckee River	Lat 39°16'42", long 120°12'21", in NW1/4SE1/4 sec.33, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 200 ft upstream from Truckee River, about 3.6 mi southwest of Truckee, and at mi 105.0 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	.14 .09
Truckee River near Truckee, Calif. (10338000)	Pyramid Lake	Lat 39°17'47", long 120°12'16", in SW1/4NE1/4 sec.28, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, about 2.5 mi southwest of Truckee, and at mi 103.6 upstream from Marble Bluff Dam.	1946-61, ⁺ 1992	10-30-91 9-08-92	14.2 4.51
Truckee River above Donner Creek, near Truckee, Calif. (10338010)	Pyramid Lake	Lat 39°18'58", long 120°12'00", in SE1/4SE1/4 sec.16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, about 0.4 mi upstream from Donner Creek, about 1.2 mi southwest of Truckee, and at mi 102.5 upstream from Marble Bluff Dam.	1991-92	9-08-92	5.41
Donner Creek at mouth, near Truckee, Calif. (10339003)	Truckee River	Lat 39°18'59", long 120°12'02", in SE1/4SE1/4 sec.16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, about 50 ft upstream from Truckee River, and about 1.2 mi southwest of Truckee.	1991-92	10-30-91 9-08-92	16.1 9.05
Truckee River below Donner Creek, near Truckee, Calif.	Truckee River	Lat 39°19'01", long 120°11'58", in SE1/4SE1/4 sec. 16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, about 100 ft downstream from Donner Creek, and about 1.2 mi southwest of Truckee.	1992	10-30-91	32.7
Truckee River at Highway 267, at Truckee, Calif. (10339010)	Pyramid Lake	Lat 39°19'36", long 120°11'00", in NE1/4NE1/4 sec.15, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, at California State Highway 267 bridge at Truckee, and at mi 100.9 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	34.8 13.9

⁺ Operated as a continuous record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Truckee River above Trout Creek, near Truckee, Calif. (391950120100200)	Pyramid Lake	Lat 39°19'50", long 120°10'02", in SW1/4SE1/4 sec.11, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, about 0.2 mi upstream from Trout Creek, and about 0.9 mi east of Truckee.	1991-92	10-30-91 9-08-92	33.6 13.1
Trout Creek at mouth, near Truckee, Calif. (391956120095200)	Truckee River	Lat 39°19'56", long 120°09'52", in SE1/4SE1/4 sec.16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, about 50 ft upstream from Truckee River, and about 1.0 mi northeast of Truckee.	1991-92	9-08-92	0
Truckee River at Polaris, near Truckee, Calif. (392018120080300)	Pyramid Lake	Lat 39°20'18", long 120°08'03", in SE1/4NW1/4 sec.7, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, at Polaris, about 0.2 mi south of Old U.S. Highway 40, and about 2.7 mi northeast of Truckee.	1991-92	10-30-91 9-08-92	32.4 15.0
Martis Creek at mouth, at Truckee River, near Truckee, Calif. (10339405)	Truckee River	Lat 39°20'56", long 120°07'02", in NE1/4SW1/4 sec.5, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 350 ft upstream from Truckee River, and about 3.8 mi northeast from Truckee.	1991-92	10-30-91 9-08-92	6.32 3.14
Truckee River at Old U.S. Highway 40 Bridge, below Truckee, Calif. (10339498)	Pyramid Lake	Lat 39°21'11", long 120°07'17", in SW1/4NW1/4 sec.5, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, at upstream side of Old U.S. Highway 40 bridge, about 3.5 mi northeast of Truckee, and at mi 96.2 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	47.4 22.2
Prosser Creek at mouth, near Truckee, Calif. (392213120065800)	Truckee River	Lat 39°22'13", long 120°06'58", in SE1/4NW1/4 sec.32, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 200 ft upstream from Truckee River, and about 4.6 mi northeast of Truckee.	1991-92	9-08-92	1.88
Truckee River below Prosser Creek, near Truckee, Calif. (392215120065600)	Pyramid Lake	Lat 39°22'15", long 120°06'56", in NE1/4NW1/4 sec.32, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 300 ft downstream from Prosser Creek, about 4.7 mi northeast of Truckee, and at mi 93.7 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	60.0 27.4
Little Truckee River below Boca Dam near Truckee, Calif. (10344500)	Truckee River	Lat 39°23'13", long 120°05'40", in NE1/4NW1/4 sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 300 ft upstream from Truckee River, and about 6.2 mi northeast of Truckee.	1912-15, 1940-92 ⁺	9-08-92	38.9
Truckee River below Little Truckee River, near Truckee, Calif. (392304120053400)	Pyramid Lake	Lat 39°23'04", long 120°05'34", in SW1/4NE1/4 sec.28, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 200 ft downstream from Little Truckee River, about 0.4 mi south of Boca Reservoir, and about 6.3 mi northeast of Truckee.	1991-92	10-30-91 9-08-92	55.6 61.5
Juniper Creek at mouth, near Hirschdale, Calif. (392152120041700)	Truckee River	Lat 39°21'52", long 120°04'17", in NW1/4SE1/4 sec.34, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 400 ft upstream from Truckee River, and about 0.4 mi southeast of Hirschdale.	1991-92	9-08-92	0

⁺ Operated as a continuous record station.

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Truckee River below Juniper Creek, near Hirschdale, Calif. (392156120041400)	Pyramid Lake	Lat 39°21'56", long 120°04'14", in NE1/4SE1/4 sec.34, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 300 ft downstream from Juniper Creek, about 0.4 mi southeast of Hirschdale, and at mi 89.1 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	66.3 69.4
Gray Creek at mouth, near Floriston, Calif. (392224120014600)	Truckee River	Lat 39°22'24", long 120°01'46", in NE1/4NE1/4 sec.36, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 400 ft upstream from Truckee River, and about 1.6 mi southwest of Floriston.	1991-92	10-30-91 9-08-92	8.80 4.88
Truckee River below Gray Creek near Floriston, Calif.	Pyramid Lake	Lat 39°22'26", long 120°01'49", in NE1/4NE1/4 sec.36, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, about 200 ft downstream from railroad bridge, and about 1.5 mi southwest of Floriston.	1992	9-08-92	73.9
Truckee River above Bronco Creek, near Floriston, Calif. (392257120011100)	Pyramid Lake	Lat 39°22'57", long 120°01'11", in SE1/4NW1/4 sec.31, T.18 N., R.18 E., Nevada County, Hydrologic Unit 16050102, about 400 ft upstream from Bronco Creek, and about 0.9 mi south of Floriston.	1991-92	10-30-91 9-08-92	79.8 76.8
Bronco Creek at mouth, near Floriston, Calif. (392303120011000)	Truckee River	Lat 39°23'03", long 120°01'10", in SE1/4NW1/4 sec.31, T.18 N., R.18 E., Nevada County, Hydrologic Unit 16050102, about 300 ft upstream from Truckee River, and about 0.7 mi south of Floriston.	1991-92	10-30-91 9-08-92	4.00 3.96
Truckee River at Floriston Dam, near Floriston, Calif. (10345909)	Pyramid Lake	Lat 39°23'48", long 120°01'24", in SE1/4NW1/4 sec.30, T.18 N., R.18 E., Nevada County, Hydrologic Unit 16050102, at Floriston Dam, about 0.2 mi northwest of Floriston, and at mi 84.3 upstream from Marble Bluff Dam.	1991-92	10-30-91 9-08-92	82.1 95.0
Truckee River above Fleish Power Diversion, near Verdi, Nev. (392706120001500)	Pyramid Lake	Lat 39°27'06", long 120°00'15", in NE1/4SE1/4 sec.6, T.18 N., R.18 E., Nevada County, Hydrologic Unit 16050102, about 0.4 mi upstream from Deep Canyon Creek, and about 4.5 mi southwest of Verdi.	1991-92	9-08-92	76.7
Steamboat Ditch below Fleish near Verdi, Nev.	--	Lat 39°29'12", long 119°59'24", in SW1/4NW1/4 sec.29, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, about 0.3 mi downstream from Fleish, and about 2.2 mi south of Verdi.	1992	9-08-92	38.7
Coldron Ditch near Verdi, Nev.	--	Lat 39°30'39", long 119°59'52", in NW1/4SE1/4 sec.18, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, at State Highway 475, about 0.8 mi southwest of Verdi.	1992	9-08-92	0
Verdi Power diversion canal near Verdi, Nev. (10347331)	--	Lat 39°31'12", long 119°59'20", in NW1/4NW1/4 sec.17, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, at Bridge Street, about 0.1 mi northwest of Verdi.	1992	9-08-92	4.0
Truckee River above Dog Creek at Verdi, Nev. (10347320)	Pyramid Lake	Lat 39°31'27", long 119°59'32", in NE1/4SE1/4 sec.7, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, about 200 ft upstream from Dog Creek, about 0.5 mi northwest of Verdi, and at mi 73.6 upstream from Marble Bluff Dam.	1992	9-08-92	37.2

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

398

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Dog Creek at mouth at Verdi, Nev. (10347310)	Truckee River	Lat 39°31'28", long 119°59'40", in NE1/4SE1/4 sec.7, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, at Bridge Street, about 0.5 mi northwest of Verdi.	1992	10-30-91 9-08-92	0.91 .04
Truckee River below Dog Creek at Verdi, Nev.	Pyramid Lake	Lat 39°31'28", long 119°59'34", in NE1/4SE1/4 sec.7, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, at Bridge Street bridge, about 0.5 mi northwest of Verdi, and at mi 73.5 upstream from Marble Bluff Dam.	1992	10-30-91	53.0
Highland Ditch at Verdi, Nev. (10347420)	--	Lat 39°31'06", long 119°57'28", in NE1/4NE1/4 sec.16, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, about 200 ft downstream from head gate, and about 1.6 mi east of Verdi.	1992	9-08-92	42.4 *
Truckee River near Mogul, Nev. (10347460)	Pyramid Lake	Lat 39°30'26", long 119°55'51", in SW1/4SW1/4 sec.14, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, at Mogul Bridge, about 3.1 mi southeast of Verdi.	1992	10-30-91 9-08-92	22.8 1.93
Truckee River tributary near Mogul, Nev.	Truckee River	Lat 39°31'02", long 119°55'08", in NE1/4NE1/4 sec.14, T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, about 0.1 mi north of Mogul, and about 3.6 mi east of Verdi.	1992	10-30-91 9-08-92	E .10 E .15
Truckee River at Mayberry Park near Reno, Nev.	Pyramid Lake	Lat 39°30'14", long 119°53'31", in NE1/4NW1/4 sec.19, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 500 ft upstream from Hunter Creek, about 6.0 mi southwest of Reno, and at mi 65.7 upstream from Marble Bluff Dam.	1992	10-30-91 9-08-92	25.0 2.87
Hunter Creek at mouth near Reno, Nev. (10347620)	--	Lat 39°30'13", long 119°53'22", in NW1/4NE1/4 sec.19, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 200 ft upstream from mouth, and about 6.0 mi southwest of Reno.	1992	10-30-91 9-08-92	21.0 .11
Last Chance Ditch near Reno, Nev.	--	Lat 39°30'14", long 119°53'22", in NW1/4NE1/4 sec.19, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Hunter Creek, about 6.0 mi southwest of Reno.	1992	10-30-91 9-08-92	E .1 0
Lake Ditch near Reno, Nev.	--	Lat 39°30'23", long 119°53'13", in SW1/4SE1/4 sec.18, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Mayberry Drive, about 5.7 mi southwest of Reno.	1992	10-31-91 9-08-92	E .01 0
Hunter Creek Reservoir return flow near Reno, Nev.	--	Lat 39°30'05", long 119°52'48", in NW1/4NW1/4 sec.20, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Hunter Creek Reservoir, about 5.6 mi southwest of Reno.	1992	10-30-91 9-08-92	2.80, 8.66
Highland Ditch return flow near Reno, Nev.	--	Lat 39°30'42", long 119°52'12", in NW1/4SE1/4 sec.17, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 300 ft upstream from mouth, at Old U.S. Highway 40.	1992	9-08-92	E .04

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Orr Ditch at Chalk Bluff near Reno, Nev.	--	Lat 39°30'47", long 119°52'09", in NW1/4SE1/4 sec.17, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 0.2 mi downstream from head gate, about 0.7 mi south of Interstate Highway 80, and about 0.7 mi west of McCarran Boulevard.	1992	10-30-91	E _{0.20}
Orr Ditch at Del Curto Drive near Reno, Nev.	--	Lat 39°30'47", long 119°51'05", in SW1/4NE1/4 sec.16, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Del Curto Drive near Reno.	1992	9-08-92	0
Truckee River above Idlewild Park at Reno, Nev.	Pyramid Lake	Lat 39°31'04", long 119°50'28", in NW1/4NW1/4 sec.15, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 250 ft downstream from Foster Drive, about 0.4 mi upstream from Idlewild Park, and at mi 62.0 upstream from Marble Bluff Dam.	1992	9-08-92	12.3
Truckee River return flow in Wingfield Park at Reno, Nev.	--	Lat 39°31'29", long 119°48'56", in NW1/4SE1/4 sec.11, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Arlington Avenue at Reno.	1992	10-30-91 9-08-92	E _{9.6} 3.19
Truckee River return flow at Center Street at Reno, Nev.	--	Lat 39°31'32", long 119°48'36", in NE1/4SE1/4 sec.11, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, at Center Street, about 0.7 mi south of Interstate Highway 80, and about 1.5 mi west of U.S. Highway 395.	1992	9-08-92	.23
Cochran Ditch at Virginia Lake at Reno, Nev.	--	Lat 39°30'14", long 119°48'22", in NW1/4NW1/4 sec.24, T.19 N., R.19 E., Washoe County, Hydrologic Unit 16050102, about 200 ft from Virginia Lake, and about 0.1 mi south of Plumb Lane.	1992	9-08-92	1.56
Truckee River near Reno, Nev. (10348000)	Pyramid Lake	Lat 39°31'53", long 119°47'07", in NW1/4NW1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, about 400 ft downstream from Kietzke Lane, about 5.0 mi upstream of Steamboat Creek, and at mi 59.1 upstream from Marble Bluff Dam. Drainage area is 1067 mi ² .	1907-21, ⁺ 1926, 1931-34, 1947-92	10-30-91 9-08-92	53.9 15.2
Glendale Ditch at Sparks, Nev.	--	Lat 39°31'40", long 119°46'35", in SW1/4NE1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Glendale Avenue, about 0.3 mi east of U.S. Highway 395.	1992	9-08-92	12.3 *
North Truckee Ditch at Sparks, Nev.	--	Lat 39°31'40", long 119°46'16", in SE1/4SE1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Glendale Avenue, about 0.6 mi east of U.S. Highway 395.	1992	9-08-92	0
Pioneer Ditch at McCarran Boulevard near Sparks, Nev.	--	Lat 39°30'55", long 119°44'27", in SW1/4NE1/4 sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at McCarran Boulevard, about 0.2 mi south of Truckee River.	1992	10-30-91	1.31
Pioneer Ditch at Greg Street near Sparks, Nev.	--	Lat 39°31'15", long 119°46'16", in SE1/4SE1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Greg Street, about 0.6 mi east of U.S. Highway 395.	1992	9-08-92	1.91

⁺ Operated as a continuous record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Eastman Ditch at Greg Street near Sparks, Nev.	--	Lat 39°31'16", long 119°46'16", in SE1/4SE1/4 sec.7, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Greg Street, about 0.6 mi east of U.S. Highway 395.	1992	9-08-92	0
Truckee River near Sparks, Nev. (10348200)	Pyramid Lake	Lat 39°31'11", long 119°44'27", in NW1/4NE1/4 sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, about 400 ft upstream from McCarran Boulevard, about 2.5 mi upstream from Steamboat Creek, and at mi 56.2 upstream from Marble Bluff Dam. Drainage area is 1070 mi ² , approximately.	1978-92 ⁺	10-30-91 9-08-92	48.5 0
North Truckee Drain at mouth near Sparks, Nev.	Truckee River	Lat 39°31'19", long 119°42'18", in SE1/4SW1/4 sec.11, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, about 250 ft upstream from Truckee River, about 0.1 mi upstream from Steamboat Creek, and at mi 53.6 upstream from Marble Bluff Dam.	1992	10-30-91 9-08-92	9.93 11.1
Steamboat Creek at Kimlick Lane near Reno, Nev. (10349980)	Truckee River	Lat 39°30'47", long 119°42'41", in SW1/4NW1/4 sec.14, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Kimlick Lane, about 0.7 mi upstream from Truckee River.	1992	10-30-91 9-08-92	16.4 1.84
Truckee Meadows Water Reclamation Facility outfall at Reno, Nev.	--	Lat 39°31'07", long 119°42'11", in NW1/4NE1/4 sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Truckee Meadows Water Reclamation Facility, and about 0.1 mi upstream from Truckee River.	1992	9-08-92	E 34.0 **
Truckee River at Vista, Nev. (10350000)	Pyramid Lake	Lat 39°31'05", long 119°40'58", in NW1/4NE1/4 sec.13, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, about 0.9 mi southeast of Vista, about 1.5 mi downstream from Steamboat Creek, and at mi 52.2 upstream from Marble Bluff Dam.	1900-07, 1933-54, 1959-92 ⁺	10-30-91 9-08-92	124.0 56.7
Truckee River at Lockwood, Nev. (10350050)	Pyramid Lake	Lat 39°30'36", long 119°38'52", in SE1/4SE1/4 sec.17, T.19 N., R.21 E., Washoe County, Hydrologic Unit 16050102, at Lockwood Bridge, about 0.2 mi north of Lockwood.	1992	10-31-91 9-08-92	99.4 55.2
Largomarsino- Murphy Ditch near Lockwood Nev. (10350150)	--	Lat 39°30'29", long 119°38'39", in SW1/4SW1/4 sec.16, T.19 N., R.21 E., Storey County, Hydrologic Unit 16050102, about 0.2 mi northeast from Lockwood, and about 1.2 mi from diversion head gate.	1992	10-30-91 9-08-92	E .8 0
Truckee River at Mustang Bridge No. 1 near Hafed, Nev. (10350153)	Pyramid Lake	Lat 39°30'48", long 119°37'08", in NE1/4SW1/4 sec.15, T.19 N., R.21 E., Storey County, Hydrologic Unit 16050102, at Mustang Bridge No. 1, about 0.4 mi southeast of Hafed.	1992	10-31-91 9-08-92	119.0 56.9
McCarran Ditch at Patrick, Nev.	--	Lat 39°32'44", long 119°35'16", in SE1/4NE1/4 sec.2, T.19 N., R.21 E., Washoe County, Hydrologic Unit 16050102, about 0.8 mi from Patrick, and about 1.2 mi from diversion head gate.	1992	10-31-91 9-08-92	0 0
Truckee River at Patrick, Nev. (10350200)	Pyramid Lake	Lat 39°32'49", long 119°34'59", in NW1/4NW1/4 sec.1, T.19 N., R.21 E., Washoe County, Hydrologic Unit 16050102, about 0.5 mi west of Patrick, about 11.5 mi east of Sparks, and at mi 44.9 upstream from Marble Bluff Dam.	1992	10-31-91 9-08-92	102.0 65.6

⁺ Operated as a continuous record station.

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Hill diversion near Tracy, Nev.	--	Lat 39°34'00", long 119°31'06", in SW1/4SE1/4 sec.28, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, at Tracy Power Plant access road, and about 0.8 mi west of Tracy Exit.	1992	10-31-91 9-08-92	0 0
Truckee River below Tracy, Nev. (10350400)	Pyramid Lake	Lat 39°33'52", long 119°31'02", in NW1/4NE1/4 sec.33, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, about 100 ft downstream from Tracy Power Plant, about 13 mi east of Sparks, and at mi 40.6 upstream from Marble Bluff Dam.	1973-92	10-31-91 9-08-92	96.5 41.4
Truckee River at Clark, Nev. (10350500)	Pyramid Lake	Lat 39°33'56", long 119°29'08", in SE1/4SW1/4 sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, at Clark Bridge, about 0.2 mi west of Clark, and at mi 38.6 upstream from Marble Bluff Dam.	1992	10-31-91 9-08-92	102.0 42.4
Truckee River above Derby Dam near Wadsworth, Nev. (393520119270700)	Pyramid Lake	Lat 39°35'20", long 119°27'07", in SE1/4NE1/4 sec.24, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, about 0.4 mi upstream of Derby Dam, and about 9.5 mi southeast of Wadsworth.	1992	10-31-91 9-08-92	102.0 37.9
Truckee River below Derby Dam near Wadsworth, Nev. (10351600)	Pyramid Lake	Lat 39°35'05", long 119°26'25", in NW1/4SE1/4 sec.19, T.20 N., R.23 E., Storey County, Hydrologic Unit 16050102, about 1500 ft downstream from Derby Dam, 3.2 mi downstream from Clark, about 9.0 mi southwest of Wadsworth, and at mi 34.5 upstream from Marble Bluff Dam.	1910 1919-57, ⁺ 1959-92, ⁺	10-31-91 9-08-92	8.17 8.84
Washburn Ditch near Orchard, Nev.	--	Lat 39°35'24", long 119°22'20", in SW1/4NW1/4 sec.23, T.20 N., R.23 E., Washoe County, Hydrologic Unit 16050102, about 0.6 mi east of Orchard, and about 6.5 mi southwest of Fernley.	1992	9-08-92	0 *
Truckee River at Painted Rock Bridge near Wadsworth, Nev. (10351619)	Pyramid Lake	Lat 39°35'28", long 119°21'59", in NW1/4NE1/4 sec.23, T.20 N., R.23 E., Washoe County, Hydrologic Unit 16050102, at Painted Rock Bridge, about 4.5 mi southwest of Wadsworth, and at mi 29.9 upstream from Marble Bluff Dam.	1992	10-31-91 9-08-92	11.1 10.0
Gregory-Monte Ditch near Wadsworth, Nev.	--	Lat 39°36'00", long 119°20'08", in NW1/4SW1/4 sec.18, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, about 1.4 mi downstream from head gate, and about 3.6 mi southwest of Wadsworth.	1992	9-08-92	3.55 *
Herman Ditch near Wadsworth, Nev.	--	Lat 39°36'23", long 119°19'22", in NE1/4NE1/4 sec.18, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, about 1.2 mi southwest of Pyramid Lake Indian Reservation boundary, and about 2.8 mi southwest of Wadsworth.	1992	9-08-92	1.5 *
Gregory-Monte Ditch return flow near Wadsworth, Nev.	--	Lat 39°36'46", long 119°18'46", in NE1/4SW1/4 sec.8, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, about 0.4 mi southwest of Pyramid Lake Indian Reservation boundary, and about 2.1 mi southwest of Wadsworth.	1992	9-08-92	2.25 *

⁺ Operated as a continuous record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Herman Ditch return flow near Wadsworth, Nev.	--	Lat 39°36'56", long 119°18'12", in SE1/4NE1/4 sec.8, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, at Pyramid Lake Indian Reservation boundary, about 1.6 mi northwest of Wadsworth.	1992	9-08-92	0.1 *
Pierson Ditch near Wadsworth, Nev.	--	Lat 39°37'04", long 119°17'33", in SE1/4NW1/4 sec.9, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, at Interstate Highway 80, about 1.0 mi southwest of Wadsworth.	1992	9-08-92	0 *
Proctor diversion Ditch at Old U.S. 40 Bridge at Wadsworth, Nev.	--	Lat 38°37'58", long 119°16'54", in SW1/4NW1/4 sec.3, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050103, at Old U.S. 40 Bridge at Wadsworth.	1992	10-31-91 9-08-92	2.75 .24
Truckee River at Old U.S. 40 Bridge at Wadsworth, Nev. (10351648)	Pyramid Lake	Lat 39°37'55", long 119°16'54", in SW1/4NW1/4 sec.3, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050103, at Old U.S. 40 Bridge at Wadsworth.	1992	10-31-91 9-08-92	10.7 7.95
Olinghouse No.1 Ditch at Wadsworth, Nev.	--	Lat 39°38'25", long 119°16'56", in SW1/4SW1/4 sec.34, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, at old Wadsworth gaging station, about 0.5 mi north of Old U.S. Highway 40 Bridge.	1992	9-08-92	0 *
Fellnagle Ditch near Wadsworth, Nev. (10351660)	--	Lat 39°38'40", long 119°17'25", in NW1/4SE1/4 sec.33, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, at head gate, about 0.9 mi northwest of Wadsworth.	1992	9-08-92	10.6 *
Fellnagle Ditch return flow near Wadsworth, Nev.	--	Lat 39°38'58", long 119°17'19", in NW1/4NE1/4 sec.33, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 0.4 mi downstream of head gate, and about 1.2 mi northwest of Wadsworth.	1992	9-08-92	10.6
Gardella Ditch near Wadsworth, Nev.	--	Lat 39°40'12", long 119°16'22", in NE1/4SW1/4 sec.22, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 1.2 mi southwest of Windmill Canyon, and about 2.6 mi northeast of Wadsworth.	1992	9-08-92	0
Olinghouse pump No. 3 near S-S Ranch near Wadsworth, Nev	--	Lat 39°41'48", long 119°17'16", in SW1/4SE1/4 sec.9, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 0.2 mi from Gardella Canyon, and about 4.5 mi northwest of Wadsworth.	1992	10-31-91 9-08-92	0 0
Truckee River below S-S Ranch near Wadsworth, Nev. (10351684)	Pyramid Lake	Lat 39°41'46", long 119°17'59", in SE1/4SW1/4 sec.9, T.21 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 0.1 mi downstream from Gardella Canyon, and about 4.4 mi northwest of Wadsworth.	1992	10-31-91 9-08-92	21.0 11.8
Truckee River at Dead Ox Wash near Nixon, Nev. (10351690)	Pyramid Lake	Lat 39°44'14", long 119°19'24", in NE1/4NE1/4 sec.31, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 4.0 mi upstream of Numana Dam, about 9.5 mi downstream of Wadsworth, and at mi 13.2 upstream from Marble Bluff Dam.	1992	10-31-91 9-08-92	23.6 15.5

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes basin--Continued					
Truckee River near Nixon, Nev. (10351700)	Pyramid Lake	Lat 39°46'40", long 119°20'10", in SW1/4NW1/4 sec.18, T.22 N., R.24 E., Washoe County, Hydrologic Unit 16050103, about 1.0 mi upstream of Numana Dam, about 4.0 mi south of Nixon, and at mi 9.4 upstream from Marble Bluff Dam.	1957-92 ⁺	10-31-91 9-08-92	24.1 15.8
Numana Diversion Canal near Nixon, Nev.	--	Lat 39°47'34", long 119°20'43", in SW1/4NE1/4 sec.12, T.22 N., R.23 E., Washoe County, Hydrologic Unit 16050103, about 0.4 mi from Numana Dam, and about 3.5 mi upstream from Nixon.	1992	10-31-91 9-08-92	0 15.5
Numana Diversion Canal at State Highway 447 at Nixon, Nev.	--	Lat 39°49'43", long 119°21'37", in SE1/4SE1/4 sec.26, T.23 N., R.23 E., Washoe County, Hydrologic Unit 16050103, at State Highway 447, about 0.2 mi southwest of Nixon.	1992	10-31-91	0
Truckee River at State Highway 447 at Nixon, Nev. (10351750)	Pyramid Lake	Lat 39°49'45", long 119°21'36", in SW1/4 SW/4 sec.25, T.23 N., R.23 E., Washoe County, Hydrologic Unit 16050103, about 1100 ft upstream from Nixon Bridge at Nixon, and at mi 3.2 upstream from Marble Bluff Dam.	1992	10-31-91 9-08-92	30.0 2.74
Truckee River at Marble Bluff Dam, Nev. (10351775)	Pyramid Lake	Lat 39°51'20", long 119°23'32", in NW1/4NW1/4 sec.22, T.23 N., R.23 E., Washoe County, Hydrologic Unit 16050103, at Marble Bluff Dam, about 3.0 mi northwest of Nixon, and at mi 0.0 upstream from Marble Bluff Dam.	1991-92	10-31-91 9-08-92	32.6 3.46

⁺ Operated as a continuous record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Carson River basin					
Carson River at Cradlebaugh Bridge near Genoa, Nev. (10310450)	Lahontan Reservoir	Lat 39°02'52", long 119°46'44", in NE1/4SW1/4 sec.30, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at Cradlebaugh Bridge, about 6.5 mi north of Minden.	1992	9-09-92	5.54
Carson River at Old Railroad Grade near Stewart, Nev.	Lahontan Reservoir	Lat 39°05'04", long 119°45'15", in NE1/4NE1/4 sec.17, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, about 1.0 mi south of Douglas- Carson City county line, and about 2.2 mi south of Stewart.	1992	9-09-92	7.66
Clear Creek above Carson River near Carson City, Nev.	Lahontan Reservoir	Lat 39°05'48", long 119°43'55", in NW1/4NW1/4 sec.10, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, about 200 ft upstream from Carson River, and about 5.5 mi southeast of Carson City.	1992	9-09-92	0
Carson River near Carson City, Nev. (10311000)	Lahontan Reservoir	Lat 39°06'30", long 119°42'40", in SW1/4NW1/4 sec.2, T.14 N., R.20 E., Carson City, Hydrologic Unit 16050201, about 3.0 mi upstream from Lloyd's Bridge, and about 5.0 mi southeast of Carson City.	1939-92 ⁺	9-09-92	9.16
Carson River at Mexican Dam near Carson City, Nev. (10311002)	Lahontan Reservoir	Lat 39°07'13", long 119°42'16", in NE1/4SW1/4 sec.35, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050202, about 500 ft downstream of Mexican Dam, and about 5.0 mi southeast of Carson City.	1980-85, ⁺ 1991-92	9-09-92	7.45
Carson River at Deer Run Road near Carson City, Nev. (10311400)	Lahontan Reservoir	Lat 39°10'52", long 119°41'40", in SW1/4NW1/4 sec.12, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050201, at Deer Run Road, about 4.0 mi east of Carson City.	1992	9-09-92	4.95
Carson River near Mound House, Nev.	Lahontan Reservoir	Lat 39°11'22", long 119°39'30", in SE1/4SE1/4 sec.6, T.15 N., R.21 E., Carson City, Hydrologic Unit 16050202, about 2.0 mi southeast of Mound House, and about 4.0 mi downstream from Deer Run Road.	1992	9-09-92	3.39
Dayton Town Ditch near Dayton, Nev.	--	Lat 39°12'50", long 119°36'39", in NW1/4NE1/4 sec.34, T.16 N., R.21 E., Lyon County, Hydrologic Unit 16050202, about 0.6 mi upstream from U.S. Highway 50, and about 2.0 mi southwest of Dayton.	1992	9-09-92	1.11
Carson River near Dayton, Nev.	Lahontan Reservoir	Lat 39°12'50", long 119°36'35", in NW1/4NE1/4 sec.34, T.16 N., R.21 E., Lyon County, Hydrologic Unit 16050202, about 2.0 mi upstream from Dayton.	1992	9-09-92	.78
Carson River below Dayton Valley near Dayton, Nev.	Lahontan Reservoir	Lat 39°17'38", long 119°28'46", in NW1/4SE1/4 sec.35, T.17 N., R.22 E., Lyon County, Hydrologic Unit 16050202, about 1.5 mi downstream from Koch Ditch diversion, and about 7.0 mi northeast of Dayton.	1992	9-09-92	1.87
Koch Ditch below Dayton Valley near Dayton, Nev.	--	Lat 39°17'42", long 119°28'44", in NW1/4SE1/4 sec.35, T.17 N., R.22 E., Lyon County, Hydrologic Unit 16050202, about 1.5 mi downstream from Koch Ditch diversion gate, and about 7.0 mi northeast of Dayton.	1992	9-09-92	2.18

⁺ Operated as a continuous record station.

Truckee and Carson Rivers, Low-flow Investigation--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Carson River basin--Continued					
Carson River near Clifton, Nev.	Lahontan Reservoir	Lat 39°16'46", long 119°23'58", in NE1/4SE1/4 sec.4, T.16 N., R.23 E., Lyon County, Hydrologic Unit 16050202, about 0.9 mi southeast of Clifton, and about 7.0 mi west of Fort Churchill.	1992	9-09-92	0.29
Buckland Ditch near Fort Churchill, Nev. (10311900)	--	Lat 39°17'35", long 119°18'45", in NW1/4SE1/4 sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, about 2.0 mi west of Fort Churchill, and about 4.5 mi upstream from U.S. Highway 95.	1963-71, ⁺ 1992	9-09-92	0
Carson River near Fort Churchill, Nev. (10312000)	Lahontan Reservoir	Lat 39°17'30", long 119°18'40", in SW1/4SE1/4 sec.32, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, about 2.0 mi west of Fort Churchill, and about 4.5 mi upstream from U.S. Highway 95.	1912-92 ⁺	9-09-92	.02
Carson River near Silver Springs, Nev. (10312020)	Lahontan Reservoir	Lat 39°17'35", long 119°15'05", in NE1/4SE1/4 sec.35, T.17 N., R.24 E., Lyon County, Hydrologic Unit 16050202, at U.S. Alternate Highway 95, about 1.1 mi east of Fort Churchill, and about 5.3 mi southwest of Silver Springs.	1992	9-09-92	0

⁺ Operated as a continuous record station.
E Estimated.

LOW-FLOW INVESTIGATION OF THE TRUCKEE RIVER AND SELECTED TRIBUTARIES

Miscellaneous sites measured to evaluate gains and losses of streamflow along the river.

WATER-QUALITY DATA, OCTOBER 1991

STATION NUMBER	STATION NAME
10337500	TRUCKEE RIVER AT TAHOE CITY, CALIF
390954120103700	TRUCKEE RIVER AT RAMPART, NEAR TAHOE CITY, CA
391108120113900	TRUCKEE RIVER ABOVE BEAR CREEK, NEAR ALPINE MEADOWS, CA
391125120114900	BEAR CREEK AT MOUTH, NEAR ALPINE MEADOWS, CA
391146120115000	TRUCKEE RIVER AT HIGHWAY 89 BRIDGE, NEAR SQUAW VALLEY, CA
391240120115000	TRUCKEE RIVER ABOVE SQUAW CREEK, NEAR SQUAW VALLEY, CA
10337855	SQUAW CREEK AT HIGHWAY 89, NEAR SQUAW VALLEY, CA
391252120120000	TRUCKEE RIVER BELOW SQUAW CREEK NEAR SQUAW VALLEY, CA
391319120115500	DEER CREEK 200 FEET ABOVE MOUTH, NEAR SQUAW VALLEY, CA
391402120122100	POLE CREEK AT MOUTH, NEAR SQUAW VALLEY, CA
391529120123300	DEEP CREEK ABOVE MOUTH, NEAR TRUCKEE, CA
391642120122100	CABIN CREEK AT HIGHWAY 89, NEAR TRUCKEE, CA
10338000	TRUCKEE RIVER NEAR TRUCKEE, CA
10339003	DONNER CREEK AT MOUTH, NEAR TRUCKEE, CA
391859120115600	TRUCKEE RIVER BELOW DONNER CREEK NEAR TRUCKEE, CA
10339010	TRUCKEE RIVER AT HIGHWAY 267, AT TRUCKEE, CA
391950120100200	TRUCKEE RIVER ABOVE TROUT CREEK, NEAR TRUCKEE, CA
392018120080300	TRUCKEE RIVER AT POLARIS, NEAR TRUCKEE, CA
10339405	MARTIS CREEK NEAR MOUTH, AT TRUCKEE RIVER, NEAR TRUCKEE, CA
10339498	TRUCKEE RIVER AT OLD US 40 BRIDGE, BELOW TRUCKEE, CA
392215120065600	TRUCKEE RIVER BELOW PROSSER CREEK, NEAR TRUCKEE, CA
392304120053400	TRUCKEE RIVER BELOW LITTLE TRUCKEE RIVER, NEAR TRUCKEE, CA
392156120041400	TRUCKEE RIVER BELOW JUNIPER CREEK, NEAR HIRSCHDALE, CA
392224120014600	GRAY CREEK AT MOUTH, NEAR FLORISTON, CA
392257120011100	TRUCKEE RIVER ABOVE BRONCO CREEK, NEAR FLORISTON, CA
392303120011000	BRONCO CREEK AT MOUTH, NEAR FLORISTON, CA
10345909	TRUCKEE RIVER AT FLORISTON DAM, NEAR FLORISTON, CA
10347310	DOG CREEK AT VERDI, NV
10347320	TRUCKEE RIVER AT BRIDGE STREET BRIDGE AT VERDI, NV
10347460	TRUCKEE RIVER NEAR MOGUL, NV
10347690	TRUCKEE RIVER AT MAYBERRY DRIVE BELOW LAWTON, NV
392942119533700	HUNTER CREEK BELOW STEAMBOAT DITCH NEAR RENO, NV
393019119525300	HUNTER CREEK RESERVOIR DRAIN AT MAYBERRY DRIVE AT RENO, NV
393040119521200	TRUCKEE RIVER TRIBUTARY AT CHALK BLUFF NEAR RENO, NV
393129119485600	HIGHLAND PLANT SPILL AT ARLINGTON BRIDGE AT RENO, NV
10348000	TRUCKEE RIVER AT RENO, NV
393055119442800	PIONEER DITCH ABOVE MCCARREN BLVD NEAR SPARKS, NV
10348200	TRUCKEE RIVER NEAR SPARKS, NV
10348300	NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS, NV
10349980	STEAMBOAT CREEK AT KIMLICK LANE NEAR RENO, NV
10350000	TRUCKEE RIVER AT VISTA, NV
10350050	TRUCKEE RIVER AT LOCKWOOD, NV
10350153	TRUCKEE RIVER AT MUSTANG BRIDGE NO 1 NEAR HAFED, NV
10350200	TRUCKEE RIVER AT PATRICK, NV
10350400	TRUCKEE RIVER BELOW TRACY, NV
10350500	TRUCKEE RIVER AT CLARK, NV
393520119270700	TRUCKEE RIVER ABOVE DERBY DAM NEAR WADSWORTH, NV
10351600	TRUCKEE RIVER BELOW DERBY DAM NEAR WADSWORTH, NV
10351619	TRUCKEE RIVER AT PAINTED ROCK BRIDGE NEAR WADSWORTH, NV
10351648	TRUCKEE RIVER AT OLD US 40 BRIDGE AT WADSWORTH, NV
10351684	TRUCKEE RIVER BELOW S-S RANCH NEAR WADSWORTH, NV
10351690	TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON, NV
10351700	TRUCKEE RIVER NEAR NIXON, NV
10351750	TRUCKEE RIVER AT HIGHWAY 447 AT NIXON, NV
10351775	TRUCKEE RIVER AT MARBLE BLUFF DAM NEAR NIXON, NV

LOW-FLOW INVESTIGATION OF THE TRUCKEE RIVER AND SELECTED TRIBUTARIES--Continued

WATER-QUALITY DATA, OCTOBER 1991

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
10-30-91	0820	0.24	153	0.0	2.0	12
10-30-91	0908	0.68	145	-1.5	2.5	13
10-30-91	1007	1.7	141	-0.5	2.0	12
10-30-91	1057	1.5	104	3.0	2.5	4.0
10-30-91	1138	3.2	125	2.5	4.5	8.6
10-30-91	1250	4.2	135	3.0	4.0	9.0
10-30-91	1225	2.6	180	3.0	3.0	3.2
10-30-91	1420	7.3	159	4.0	4.5	7.0
10-30-91	1415	0.92	170	4.5	1.5	2.4
10-30-91	1200	0.40	105	5.5	1.0	1.1
10-30-91	1110	0.82	89	1.0	1.0	1.1
10-30-91	1015	0.14	107	4.0	1.5	1.5
10-30-91	0830	14	160	-3.0	1.0	6.7
10-30-91	1430	16	126	3.5	8.5	22
10-30-91	1355	33	130	4.0	8.5	20
10-30-91	1300	35	145	3.5	6.0	15
10-30-91	1150	34	148	2.5	4.0	14
10-30-91	1050	32	149	1.5	3.0	15
10-30-91	0950	6.3	197	2.0	5.0	12
10-30-91	0840	47	215	-4.0	2.5	28
10-30-91	0930	60	194	1.0	3.5	23
10-30-91	1100	56	182	9.0	5.0	20
10-30-91	1330	66	186	5.0	7.5	20
10-30-91	1600	8.8	140	2.5	0.0	1.0
10-30-91	1015	80	179	5.0	5.0	19
10-30-91	0920	4.0	93	4.0	2.5	1.1
10-30-91	1135	82	176	7.0	5.5	17
10-30-91	1320	0.91	262	9.0	7.5	3.6
10-30-91	1410	53	183	17.5	7.5	20
10-30-91	1005	23	174	1.0	3.0	15
10-30-91	1240	25	188	6.0	6.0	16
10-30-91	1145	30	178	6.5	4.0	16
10-30-91	1000	2.8	176	1.5	3.0	12
10-30-91	1345	E4.0	257	11.5	5.0	11
10-30-91	1610	E9.6	185	4.5	5.5	16
10-30-91	1615	54	198	6.0	5.5	15
10-30-91	0755	1.3	187	2.0	0.5	16
10-30-91	1745	49	199	1.0	6.0	15
10-30-91	1330	9.9	630	10.0	9.5	20
10-30-91	1045	16	880	8.5	8.5	110
10-30-91	1520	124	448	11.0	10.0	43
10-31-91	0800	99	484	-3.0	7.0	36
10-31-91	1000	119	477	4.0	7.0	25
10-31-91	1125	102	484	10.0	7.0	30
10-31-91	0910	97	485	13.0	6.0	42
10-31-91	1030	102	476	12.5	7.5	43
10-31-91	1325	102	460	17.0	7.5	40
10-31-91	1500	8.2	462	10.5	7.5	41
10-31-91	1005	11	386	2.5	5.0	23
10-31-91	1225	11	524	11.0	7.0	33
10-31-91	1445	21	873	11.5	9.5	63
10-31-91	0755	24	895	-1.0	4.5	91
10-31-91	0930	24	1140	4.0	4.5	170
10-31-91	1200	30	1190	21.0	9.0	180
10-31-91	1330	33	1230	17.0	9.0	180

E: ESTIMATED

LOW-FLOW INVESTIGATION OF THE TRUCKEE RIVER AND SELECTED TRIBUTARIES--Continued

WATER-QUALITY DATA, SEPTEMBER 1992

STATION NUMBER	STATION NAME	DATE	TIME
10351600	TRUCKEE RIVER BELOW DERBY DAM NEAR WADSWORTH, NV	09-08-92	0855
10351619	TRUCKEE RIVER AT PAINTED ROCK BRIDGE	09-08-92	0945
10351648	TRUCKEE RIVER AT OLD US 40 BRIDGE AT WADSWORTH, NV	09-08-92	1110
10351684	TRUCKEE RIVER BELOW S-S RANCH NEAR WADSWORTH, NV	09-08-92	1350
10351690	TRUCKEE RIVER AT DEAD OX WASH NEAR NIXON, NV	09-08-92	0900
10351700	TRUCKEE RIVER NEAR NIXON, NV	09-08-92	1120
10351750	TRUCKEE RIVER AT HIGHWAY 447 AT NIXON, NV	09-08-92	1410

DATE	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
09-08-92	8.8	568	16.0	130	34	12	57	2
09-08-92	10	507	17.0	130	32	12	50	2
09-08-92	8.0	510	19.5	140	33	14	50	2
09-08-92	12	949	22.0	270	64	27	92	2
09-08-92	15	927	17.0	260	60	26	91	2
09-08-92	16	1290	19.0	270	59	30	150	4
09-08-92	2.7	1100	22.5	260	62	25	110	3

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
09-08-92	10	63	54	0.30	17	347	338	0.47
09-08-92	8.4	54	50	0.20	18	302	306	0.41
09-08-92	8.0	55	50	0.20	14	309	307	0.42
09-08-92	9.5	160	110	0.20	26	591	593	0.80
09-08-92	9.2	150	110	0.20	21	555	571	0.75
09-08-92	12	150	220	0.20	18	738	730	1.00
09-08-92	12	150	170	0.20	27	658	653	0.89

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Water-quality partial-record stations are sites where chemical-quality, biological, or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are usually collected less than quarterly. Locations of following sites are shown in figure 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

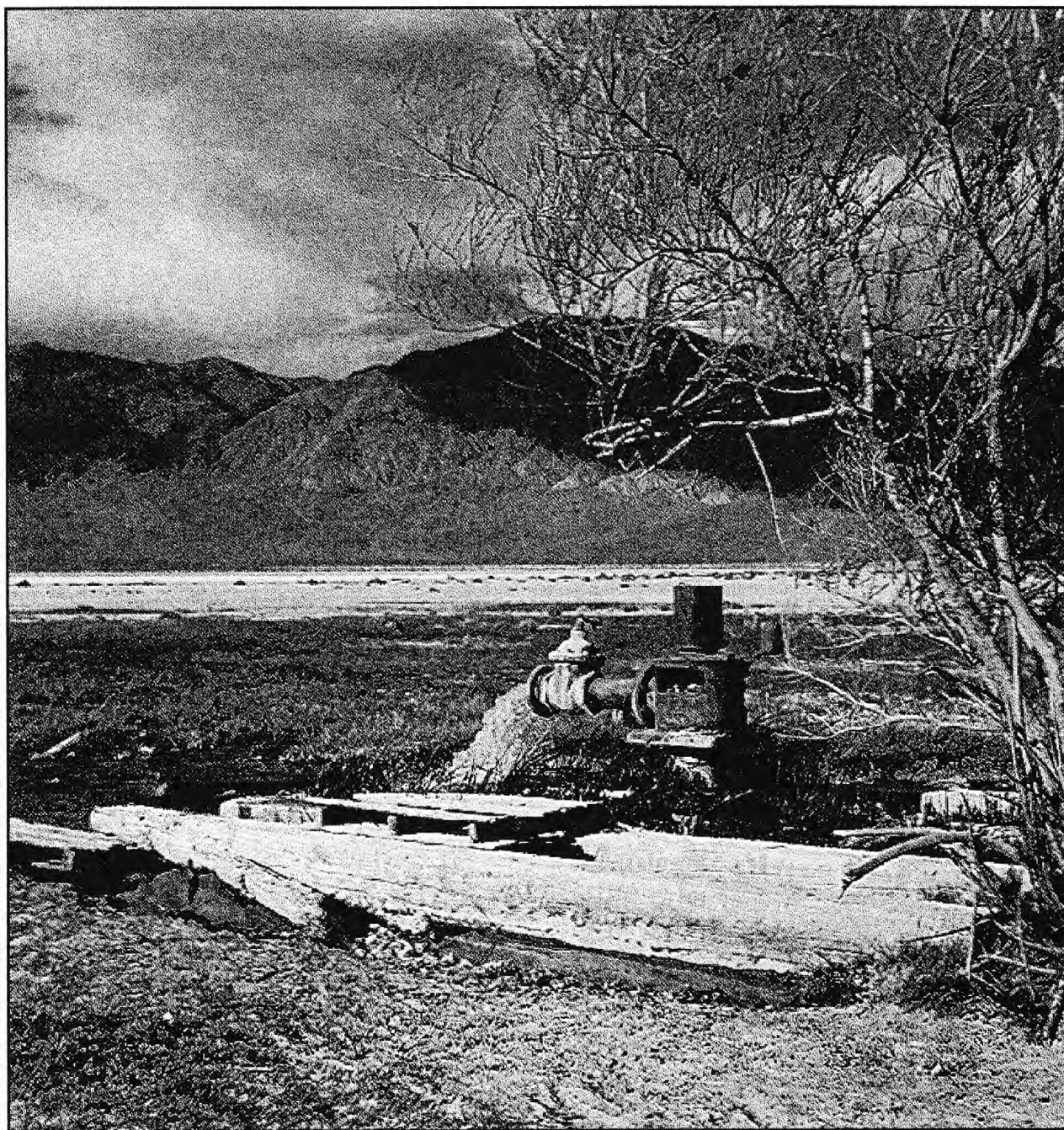
STATION NUMBER	STATION NAME	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND
09418685	MEADOW VALLEY WASH BELOW HOYA SIDING NEAR ROX, NV	03-06-92	1715	E40
09418692	MEADOW VALLEY WASH SEEP WEST SIDE RR .6 MI ABOVE ROX	03-06-92	1645	--
		03-07-92	1145	--
		03-09-92	1140	--
09418693	MEADOW VALLEY WASH ABOVE ROX, NEVADA	01-06-92	1245	E1.0
09418693	MEADOW VALLEY WASH ABOVE ROX, NEVADA	03-06-92	1645	--
		03-07-92	1140	--
		03-09-92	1130	--
09423050	COLORADO RIVER LAGOON NORTH OF RIVIERA, ARIZ	11-25-91	1615	--
09423060	COLORADO RIVER BELOW LAGOON NORTH OF RIVIERA, ARIZ	11-25-91	1530	--

DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO
03-06-92	496	--	--	14.5	--	--	--	--	--
03-06-92	790	--	--	--	--	--	--	--	--
03-07-92	6010	--	--	13.5	--	--	--	--	--
03-09-92	5850	--	--	15.5	--	--	--	--	--
01-06-92	2160	--	--	--	--	--	--	--	--
03-06-92	1640	--	--	15.0	420	77	56	150	3
03-07-92	1600	--	--	14.0	--	--	--	--	--
03-09-92	1940	--	--	12.5	--	--	--	--	--
11-25-91	960	8.5	19.5	13.5	300	74	29	100	2
11-25-91	960	8.3	21.5	15.0	310	76	29	100	2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
03-06-92	--	--	--	--	--	316	--	--	--
03-06-92	--	--	--	--	--	489	--	--	--
03-07-92	--	--	--	--	--	4580	--	--	--
03-09-92	--	--	--	--	--	4280	--	--	--
01-06-92	--	--	--	--	--	1680	--	--	--
03-06-92	12	440	120	1.8	40	1120	1060	1.52	--
03-07-92	--	--	--	--	--	1000	--	--	--
03-09-92	--	--	--	--	--	1220	--	--	--
11-25-91	4.6	270	85	0.30	7.7	--	648	0.88	0.110
11-25-91	4.5	280	86	0.30	8.6	--	667	0.91	0.240

E: ESTIMATED

Flowing well in Rhodes Salt Marsh Valley near Mina, Nev., May 1968



Photograph by Steve VanDenburgh



*Annual Data Report, **1992***

GROUND-WATER RECORDS

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) Orovida 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. Lamolille 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. Pumpnickel 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. Badell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skodaddle 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. Huntton 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. Pahranaagat V.
210. Coyote Spring V.
211. Three Lakes V. (Southern Part)*
212. Las Vegas V.
213. Colorado V.
214. Plute 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

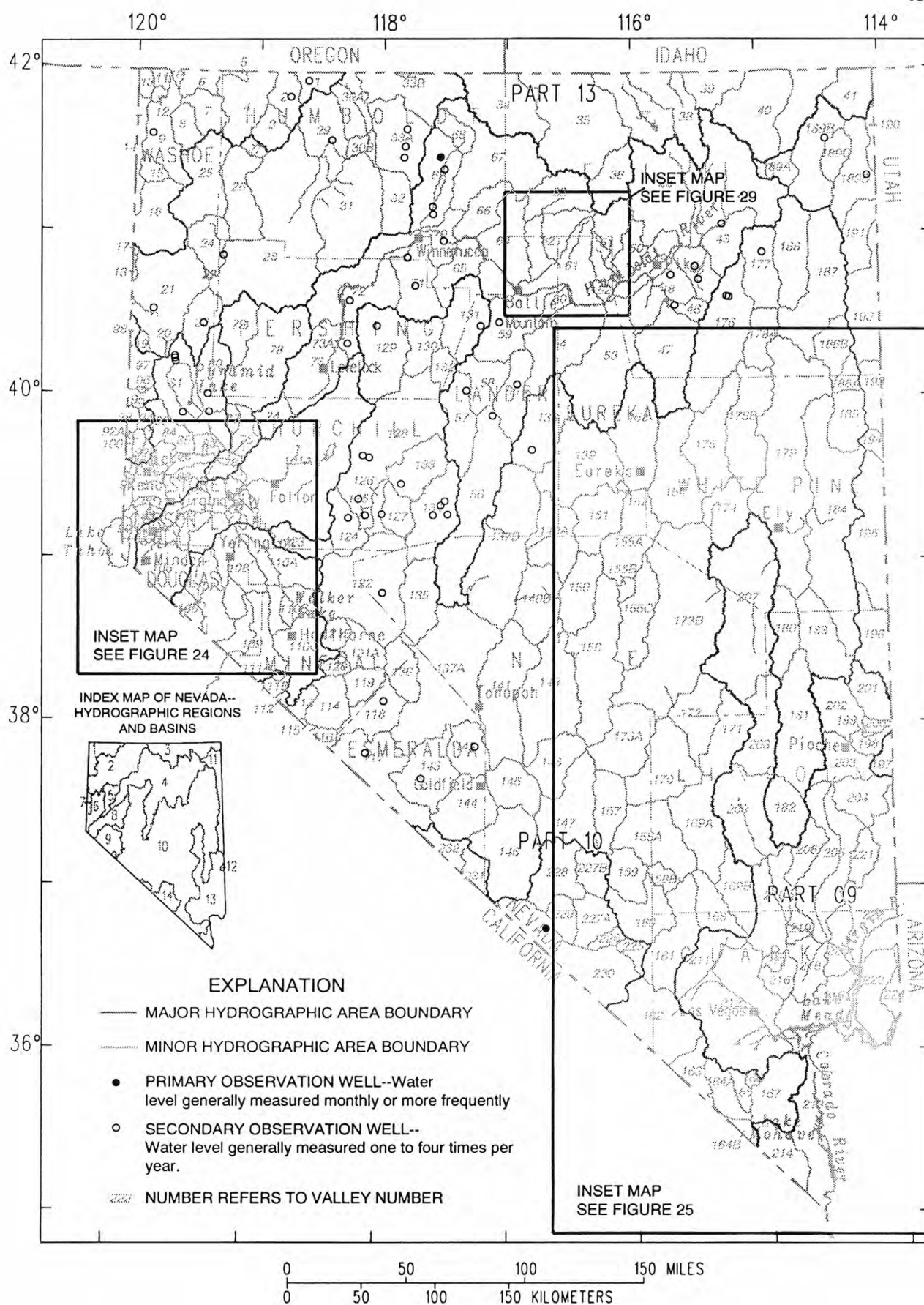
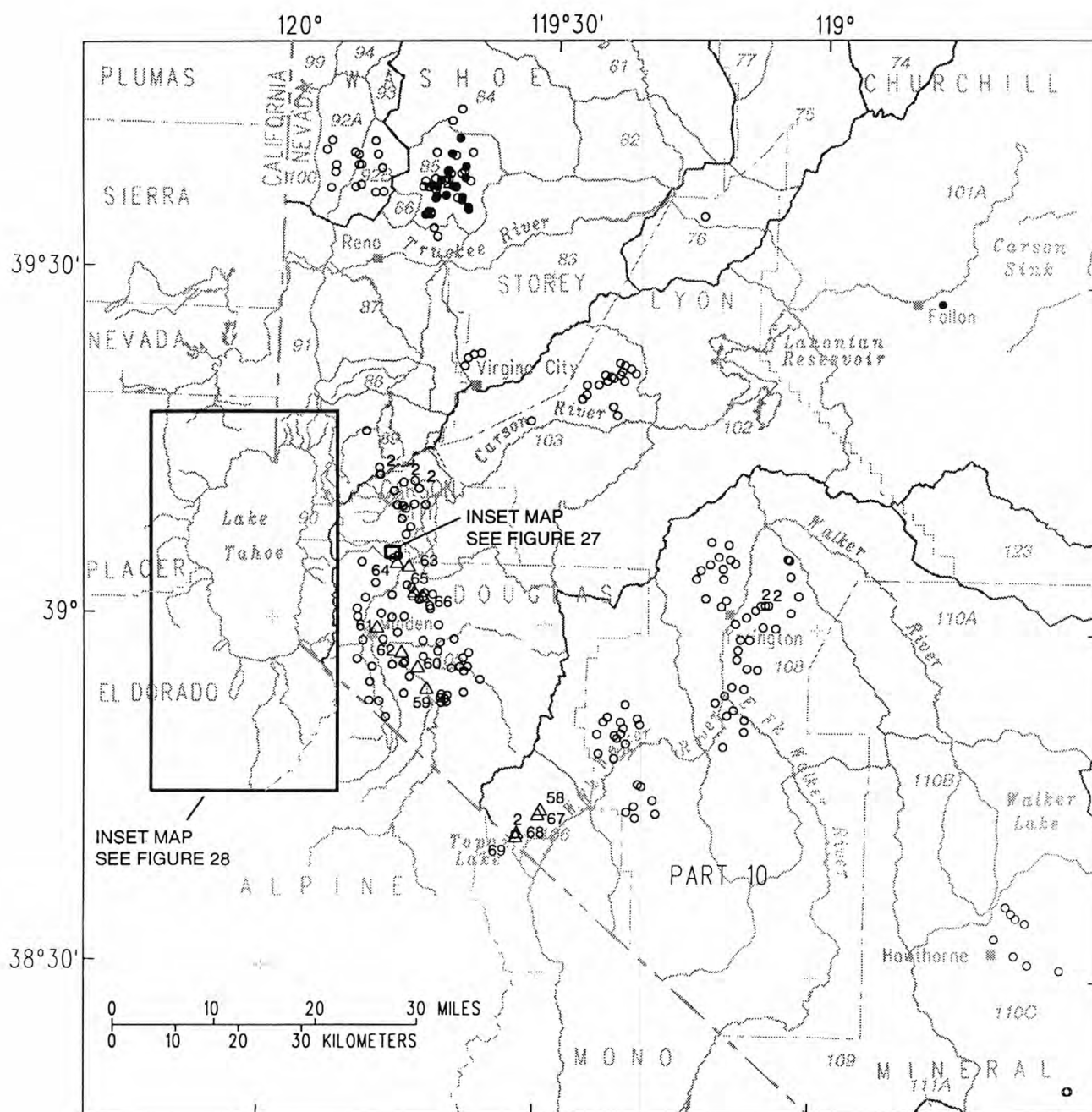


FIGURE 23.--Observation wells listed in this report.

GROUND-WATER RECORDS

LOCATION OF GROUND-WATER QUALITY SAMPLING SITES (figure 24)

Site number	Local number				Latitude	Longitude	Site identification
58	105	N10	E22	15ADBB1	384357	1193002	384357119300201
59	105	N12	E20	15ADD 1	385414	1194254	385414119425401
60	105	N12	E20	4ADA 1	385604	1194356	385604119435601
61	105	N13	E19	13BCC 1	385925	1194833	385926119481601
62	105	N13	E20	29CDC 1	385719	1194547	385719119454701
63	105	N14	E20	17ADCA1	390446	1194514	390446119451401
64	105	N14	E20	18ABAB1	390503	1194635	390503119463501
65	105	N14	E20	28CDC 1	390232	1194432	390232119443201
66	105	N14	E20	34BDBD1	390208	1194332	390208119433201
67	106	N10	E22	15DCB 1	384333	1193017	384333119301701
68	106	N10	E22	29CADA1	384156	1193233	384156119323301
69	106	N10	E22	32BAAB2	384136	1193239	384136119323901



EXPLANATION

- MAJOR HYDROGRAPHIC AREA BOUNDARY
- MINOR HYDROGRAPHIC AREA BOUNDARY
- PRIMARY OBSERVATION WELL--Water level generally measured monthly or more frequently
- ² SECONDARY OBSERVATION WELL--Water level generally measured one to four times per year. Number indicates more than one well at site
- △⁵⁸ ACTIVE GROUND-WATER QUALITY SITE --Sampling-site number refers to accompanying location table
- 109 NUMBER REFERS TO VALLEY NUMBER--See figure 23

FIGURE 24.--Observation wells and ground-water quality sites, west-central Nevada.

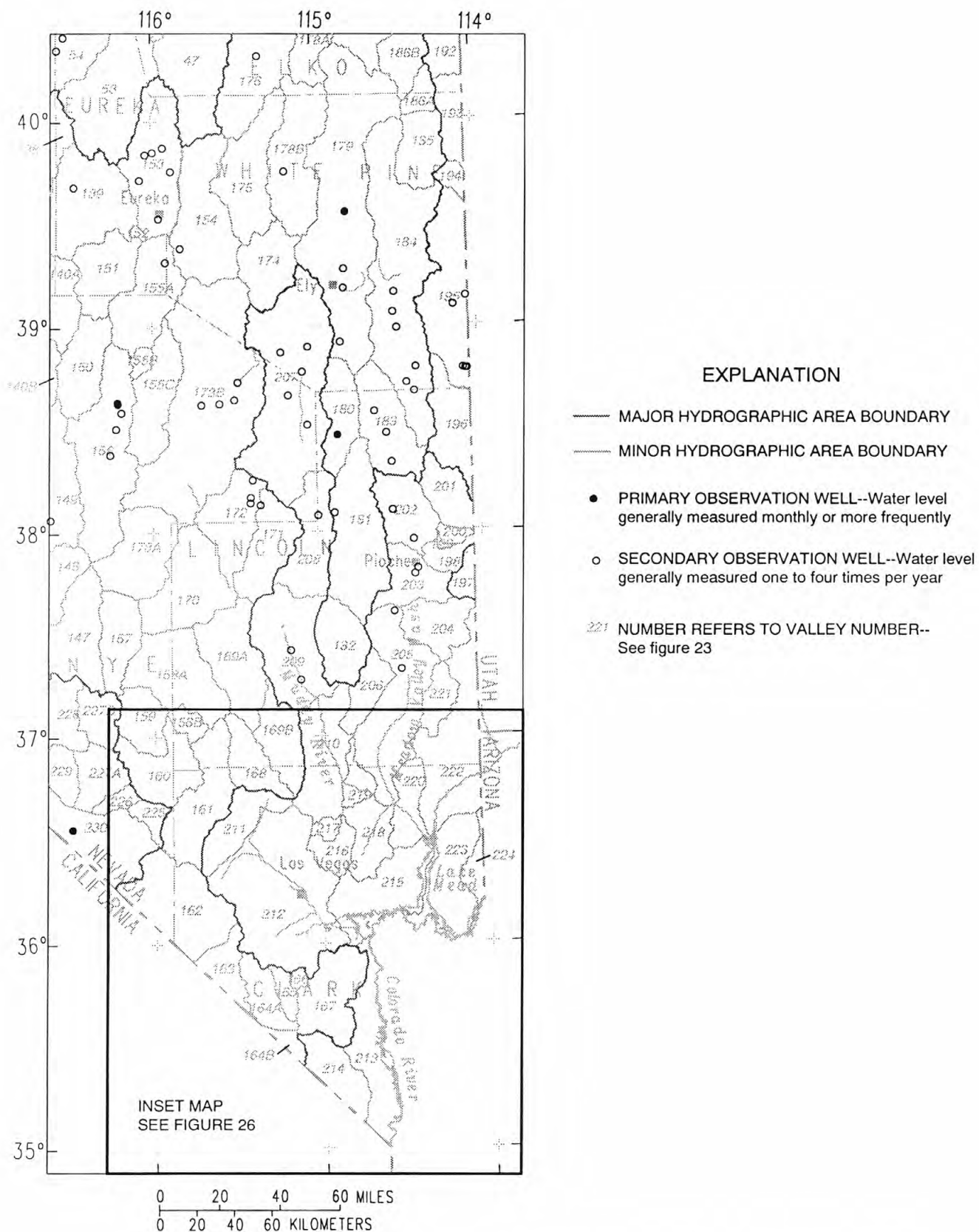


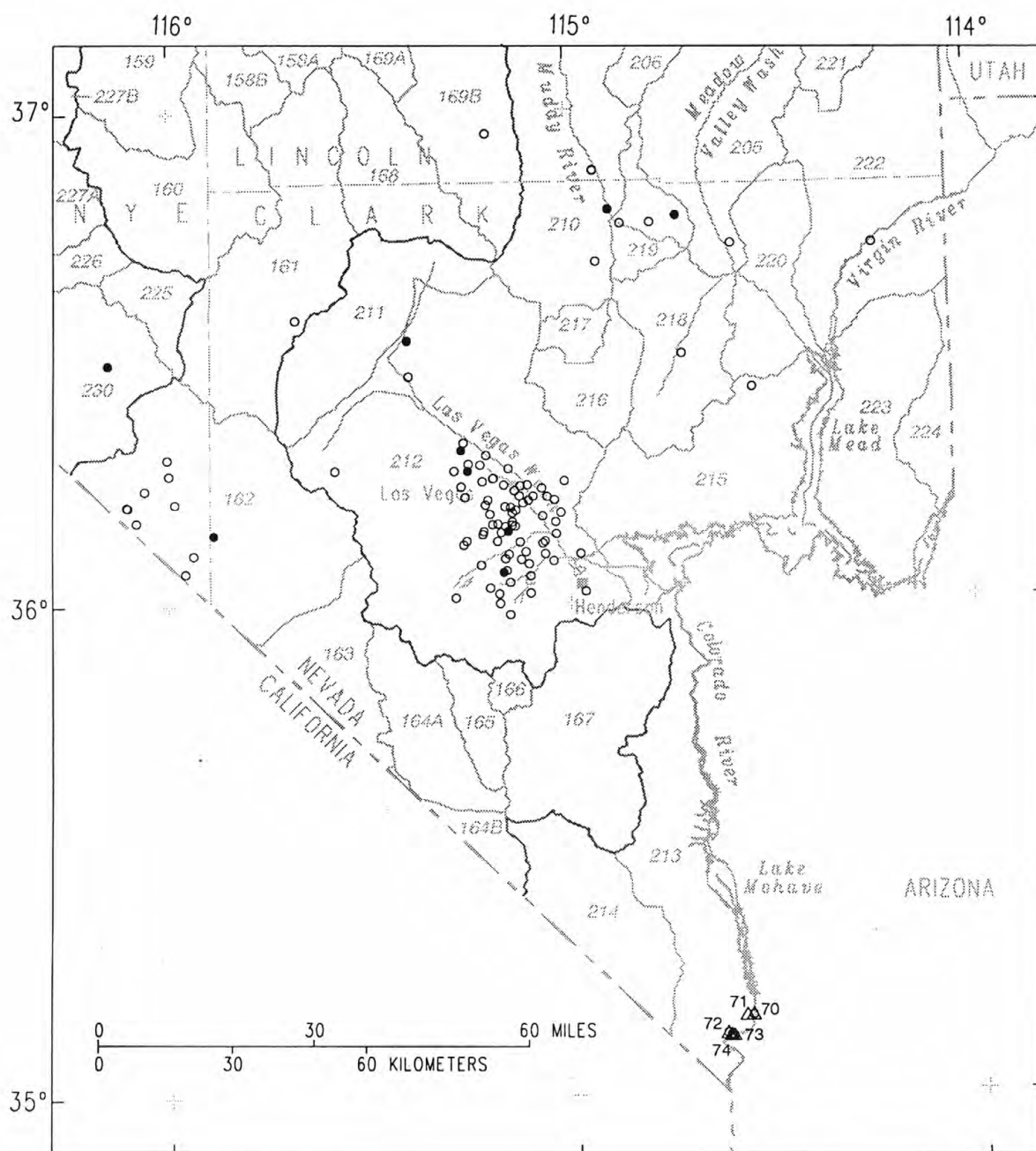
FIGURE 25.--Selected observation wells within carbonate-rock study area, eastern Nevada.

THIS IS A
BLANK PAGE

GROUND-WATER RECORDS

LOCATION OF GROUND-WATER QUALITY SAMPLING SITES (figure 26)

Site number	Local number					Latitude	Longitude	Site identification
70	213	S32	E66	13AB	1	350931	1143416	350931114341601
71	213	S32	E66	14DBDB1		350930	1143511	350930114351101
72	213	S32	E66	32AA	1	350721	1143803	350721114380301
73	213	S32	E66	33AAA	1	350704	1143711	350723114364201
74	213	S32	E66	33BBB	1	350708	1143734	350726114375501



EXPLANATION

- MAJOR HYDROGRAPHIC AREA BOUNDARY
- MINOR HYDROGRAPHIC AREA BOUNDARY
- PRIMARY OBSERVATION WELL--Water level generally measured monthly or more frequently
- SECONDARY OBSERVATION WELL--Water level generally measured one to four times per year
- 71 △ ACTIVE GROUND-WATER QUALITY SITE--Sampling number refers to accompanying table
- 214 NUMBER REFERS TO VALLEY NUMBER--See figure 23

FIGURE 26.--Observation wells and ground-water quality sites, southeastern Nevada.

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25C41.

LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.

Owner: R. Day and T. Boggio.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Dug unused well, diameter 6 ft, depth 17.4 ft, cased with iron.

INSTRUMENTATION.--Water-level recorder since June 1987, hourly.

DATUM.--Elevation of land-surface datum is 4,523 ft above sea level, 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.

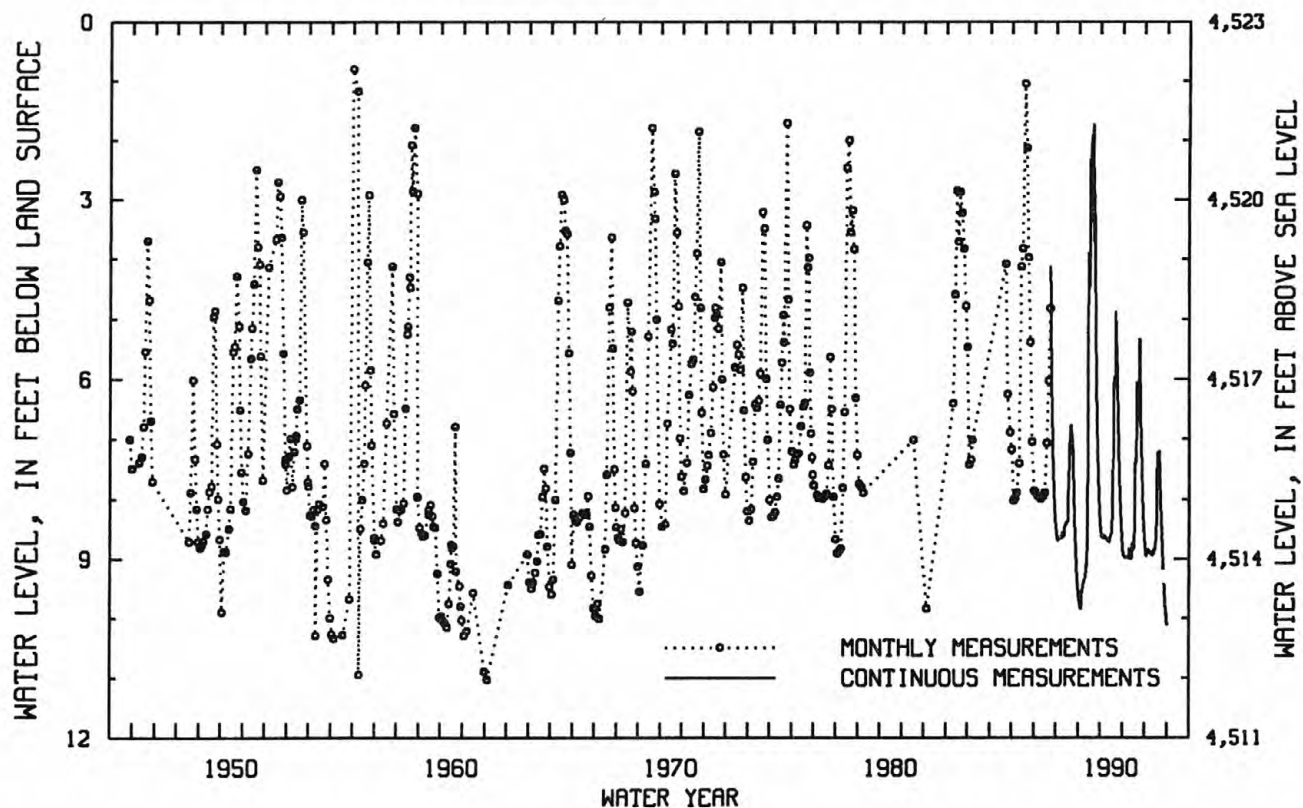
REVISED RECORDS.--WDR-NV-86-1: 1984-85.

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.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.77	8.93	8.89	8.91	8.95	8.89	8.56	7.42	7.61	8.53	---	9.83
10	8.83	8.93	8.87	8.91	8.95	8.87	8.40	7.53	7.81	8.64	---	9.90
15	8.89	8.93	8.88	8.92	8.93	8.84	8.29	7.61	7.98	8.77	9.46	9.95
20	8.93	8.88	8.89	8.93	8.84	8.80	7.35	7.42	8.13	8.90	9.55	10.01
25	8.96	8.89	8.90	8.94	8.88	8.75	7.22	7.20	8.28	9.02	9.65	10.08
EOM	8.92	8.88	8.89	8.94	8.88	8.68	7.29	7.39	8.41	9.16	9.76	10.13

WATER YEAR 1992 HIGHEST 7.18 MAY 25, 26 LOWEST 10.14 SEP 30



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

421

SPANISH SPRINGS VALLEY

393737119411501. Local number, 85 N20 E20 01CAAC1; previously published as 85 N20 E20 01DACB1.
 LOCATION.--Lat 39°37'37", long 119°41'15", Hydrologic Unit 16050102, in Washoe County.

Owner: Martin L. Murray; previous owner, Custom Builders.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 in., depth 125 ft, cased to 125 ft.

DATUM.--Elevation of land-surface datum is 4495 ft above sea level, from topographic map. Measuring point: Top of casing, 1.4 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.74 ft below land-surface datum, March 13, 1986; lowest measured, 22.84 ft below land-surface datum, July 18, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	15.17	MAY 15	13.72	JUL 22	13.86	SEP 17	14.00
APR 16	13.92	JUN 17	13.39	AUG 27	13.94		

WATER YEAR 1992 HIGHEST 13.39 JUN 17 LOWEST 15.17 MAR 5

393743119413601. Local number, 85 N20 E20 01CBAB1.

LOCATION.--Lat 39°37'43", long 119°41'36", Hydrologic Unit 16050102, in Washoe County.

Owner: Huers; previous owner, Custom Builders.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6.63 in., depth 130 ft, cased to 130 ft, perforated 101 to 130 ft.

DATUM.--Elevation of land-surface datum is 4,490 ft above sea level, from topographic map. Measuring point: Top of casing, 1.6 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.99 ft below land-surface datum, March 13, 1986; lowest measured, 16.07 ft below land-surface datum, March 5, 1992.

EXTREMES OUTSIDE PERIOD OF RECORD.--Lowest water level reported, 18 ft below land-surface datum, April 13, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	16.07	MAY 15	12.76	JUL 22	14.35
APR 16	14.83	JUN 17	12.50	SEP 17	15.56

WATER YEAR 1992 HIGHEST 12.50 JUN 17 LOWEST 16.07 MAR 5

393744119435101. Local number, 85 N20 E20 03BCDC1; previously published as 85 N20 E20 03BCDC1.

LOCATION.--Lat 39°37'44", long 119°43'51", Hydrologic Unit 16050102, in Washoe County.

Owner: Byron Falk; previous owner, Jim Paterson.

AQUIFER.--Unknown.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 8 in., depth 379 ft.

DATUM.--Elevation of land-surface datum is 4,607 ft above sea level, from topographic map. Measuring point: Top of casing, 0.3 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1964 to 1965, 1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1986, yearly; 1986 to 1989, monthly; 1990 to 1991, yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.67 ft below land-surface datum, April 20, 1983; lowest measured, 103.06 ft below land-surface datum, July 20, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	90.0	APR 16	91.07	JUN 15	91.72	AUG 25	92.85
MAR 5	90.20	MAY 15	91.43	JUL 17	92.38	SEP 15	92.80

WATER YEAR 1992 HIGHEST 90.0 FEB 20 LOWEST 92.85 AUG 25

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

SPANISH SPRINGS VALLEY --Continued

393738119432101. Local number, 85 N20 E20 03DBAB1; previously published as 85 N20 E20 03DBAC1.
 LOCATION.--Lat 39°37'38", long 119°43'21", Hydrologic Unit 16050102, in Washoe County.
 Owner: Washoe County Department of Public Works Utility Division; previous owner, E. A. Becker.
 AQUIFER.--Alluvium of Quaternary Age.
 WELL CHARACTERISTICS.--Drilled public supply well, diameter 16 in., depth 848 ft, cased to 815 ft, perforated 238 to 813 ft.
 DATUM.--Elevation of land-surface datum is 4,513 ft above sea level, from topographic map. Measuring point: Top of casing, 2.13 ft below land-surface datum.
 REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel or with electric tape by Washoe County Department of Public Works Utility Division.
 PERIOD OF RECORD.--1964 to 1965, 1979, 1980 to 1981 (unpublished and available in the files of the U. S. Geological Survey); 1984, yearly; 1986 to 1989, February to September 1992, monthly.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 54.90 ft below land-surface datum, November 18, 1980; lowest measured, 86.18 ft below land-surface datum, May 15, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	55.3	APR 16	60.54	JUN 15	60.17	SEP 15	69.57
MAR 5	62.44	MAY 15	86.18	JUL 17	59.93		
WATER YEAR 1992		HIGHEST	55.3	FEB 20	LOWEST	86.18	MAY 15

393649119432301. Local number, 85 N20 E20 10CAAB1; previously published as 85 N20 E20 10DBBC1.
 LOCATION.--Lat 39°36'49", long 119°43'23", Hydrologic Unit 16050102, in Washoe County.
 Owner: David Kiley.
 AQUIFER.--Alluvium of Quaternary Age.
 WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in., depth 300 ft, cased to 300 ft, perforated 0 to 300 ft.
 DATUM.--Elevation of land-surface datum is 4,490 ft above sea level, from topographic map. Measuring point: Slot in casing 1.2 ft below land-surface datum.
 REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.
 PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1985, yearly; March 1986 to February 1989, monthly; 1990 to 1991, yearly; February to September 1992, monthly.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.64 ft below land-surface datum, July 10, 1979; lowest measured, 32.70 ft below land-surface datum, April 20, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	27.00	APR 16	27.10	JUN 15	25.38	AUG 25	27.47
MAR 5	27.09	MAY 14	27.35	JUL 20	26.28	SEP 15	28.08
WATER YEAR 1992		HIGHEST	25.38	JUN 15	LOWEST	28.08	SEP 15

393649119432302. Local number, 85 N20 E20 10CAAB2; previously published as 85 N20 E20 10DBBC2.
 LOCATION.--Lat 39°36'49", long 119°43'23", Hydrologic Unit 16050102, in Washoe County.
 Owner: David Kiley.
 AQUIFER.--Alluvium of Quaternary Age.
 WELL CHARACTERISTICS.--Drilled irrigation well, diameter 10 in., depth 250 ft, cased to 250 ft, perforated 50 to 250 ft.
 DATUM.--Elevation of land-surface datum is 4,494 ft above sea level, from topographic map. Measuring point: Slot in casing 1.4 ft below land-surface datum.
 REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.
 PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.36 ft below land-surface datum, July 10, 1979; lowest measured, 28.68 ft below land-surface datum, September 15, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	27.94	MAY 14	28.04	JUL 20	26.7	SEP 15	28.68
APR 16	28.03	JUN 15	26.16	AUG 25	27.93		
WATER YEAR 1992		HIGHEST	26.16	JUN 15	LOWEST	28.68	SEP 15

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

423

SPANISH SPRINGS VALLEY--Continued

393637119432901. Local number, 85 N20 E20 10CDAC1; previously published as 85 N20 E20 10CDAB1.
 LOCATION.--Lat 39°36'37", long 119°43'29", Hydrologic Unit 16050102, in Washoe County.

Owner: David Kiley.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled stock well, diameter 8 in., depth 105 ft, cased to 105 ft, perforated 59 ft to 99 ft.

DATUM.--Elevation of land-surface datum is 4,498 ft above sea level, from topographic map. Measuring point: Hole in cap 1.5 ft below land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1977 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.19 ft below land-surface datum, September 20, 1980; lowest measured, 33.44 ft below land-surface datum, April 16, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	33.40	MAY 14	30.24	JUL 17	31.28	SEP 15	33.15
APR 16	33.44	JUN 15	30.23	AUG 25	32.60		
WATER YEAR 1992		HIGHEST	30.23	JUN 15	LOWEST	33.44	APR 16

393655119421901. Local number, 85 N20 E20 11BDDC1; previously published as 85 N20 E20 11BDDA1.
 LOCATION.--Lat 39°36'55", long 119°42'19", Hydrologic Unit 16050102, in Washoe County.

Owner: Joe Gaspari.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled stock well, diameter 6 in., depth 199 ft, cased to 199 ft, perforated 80 to 160 ft.
 DATUM.--Elevation of land-surface datum is 4,465 ft above sea level, from topographic map. Measuring point: Top of casing on the north side 1.0 ft below land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1951, 1964 to 1965, 1979, 1980 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.64 ft below land-surface datum, March 13, 1986; lowest reported, 8 ft below land-surface datum, November 23, 1951.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	5.01	MAY 15	4.09	JUL 20	5.59	SEP 15	6.85
APR 16	3.59	JUN 15	4.45	AUG 26	6.69		
WATER YEAR 1992		HIGHEST	3.59	APR 16	LOWEST	6.85	SEP 15

393529119441601. Local number, 85 N20 E20 21ABAC1.

LOCATION.--Lat 39°35'29", long 119°44'16", Hydrologic Unit 16050102, in Washoe County.

Owner: Dean Smith.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled public supply well, diameter 8 in., depth 194 ft, cased to 194 ft, perforated 152 ft to 194 ft.

DATUM.--Elevation of land-surface datum is 4,540 ft above sea level, from topographic map. Measuring point: Hole in cap 2.0 ft below land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1977 to 1982 (unpublished and available in the files of the U. S. Geological Survey); June 1986 to current year, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 90.80 ft below land-surface datum, January 19, 1981; lowest measured, 120.79 ft below land-surface datum, February 25, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	101.27	MAY 14	103.94	JUL 17	102.04	SEP 16	104.40
APR 16	103.09	JUN 15	102.09	AUG 25	103.85		
WATER YEAR 1992		HIGHEST	101.27	MAR 5	LOWEST	104.40	SEP 16

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

SPANISH SPRINGS VALLEY--Continued

393513119443501. Local number, 85 N20 E20 21BDAD1; previously published as 85 N20 E20 21BDAD1.

LOCATION.--Lat 39°35'13", long 119°44'35", Hydrologic Unit 16050102, in Washoe County.

Owner: Richard Bailey.

AQUIFER.--Alluvium of Quaternary Age and Volcanic of Tertiary Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 216 ft, cased to 235 ft, perforated 100 to 235 ft.

DATUM.--Elevation of land-surface datum is 4,450 ft above sea level, from topographic map. Measuring point: Slot in casing, 0.8 in. above land-surface datum.

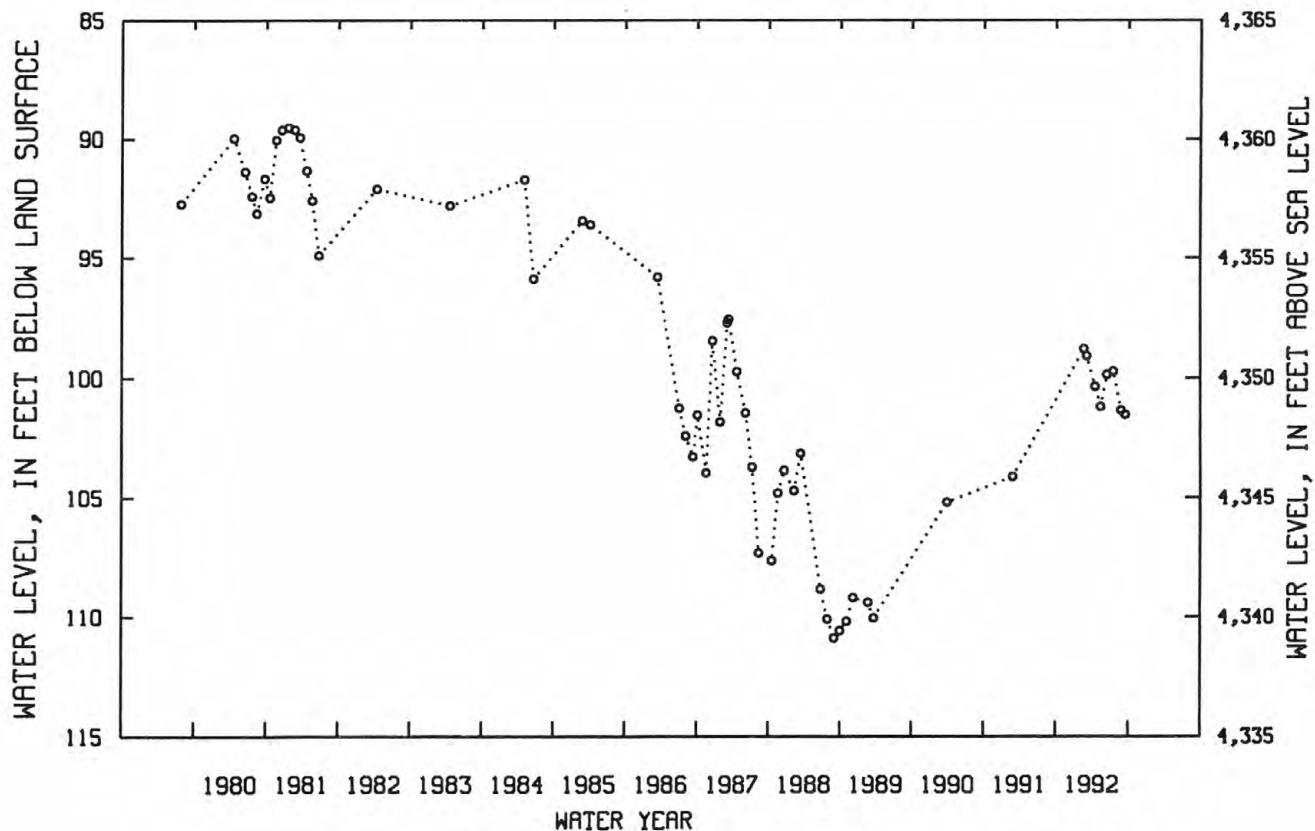
REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel or with electric tape by Washoe County Department of Public Works Utility Division personnel.

PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1989, monthly; 1990, 1991, yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.54 ft below land-surface datum, January 19, 1981; lowest measurement 110.9 ft below land-surface datum, September 1, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	98.8	APR 16	100.36	JUN 15	99.87	AUG 25	101.35
MAR 5	99.09	MAY 14	101.20	JUL 17	99.74	SEP 15	101.53
WATER YEAR 1992		HIGHEST	98.8	FEB 20	LOWEST	101.53	SEP 15



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

425

SPANISH SPRINGS VALLEY--Continued

393648119403301. Local number, 85 N20 E21 07CBCB1.

LOCATION.--Lat 39°36'48", long 119°40'33", Hydrologic Unit 16050102, in Washoe County.

Owner: Jim Sweger.

AQUIFER.--Alluvium of Quaternary Ave.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 350 ft, cased 350 ft, perforated 100 ft to 350 ft.

DATUM.--Elevation of land-surface datum is 4,490 ft above sea level, from topographic map. Measuring point: Hole in north side of casing, 1.1 ft below land-surface datum.

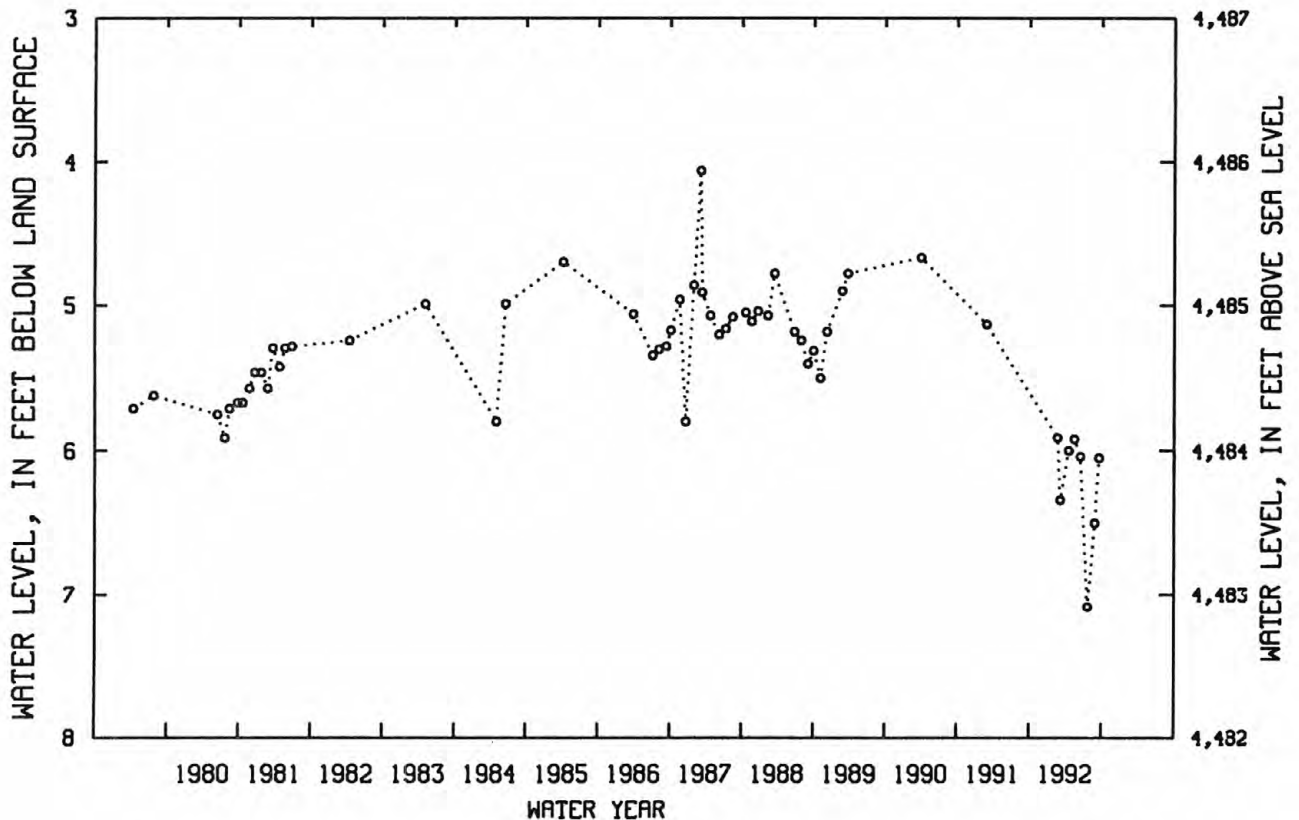
REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1984 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1986, yearly; July 1986 to March 1989, monthly; 1990 to 1991 yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.06 ft below land-surface datum, March 4, 1987; lowest measured, 7.09 ft below land-surface datum, July 22, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	5.91	APR 16	6.00	JUN 15	6.04	AUG 27	6.50
MAR 5	6.34	MAY 15	5.92	JUL 22	7.09	SEP 17	6.05
WATER YEAR 1992		HIGHEST	5.91	FEB 20	LOWEST	7.09	JUL 22



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

SPANISH SPRINGS VALLEY--Continued

393631119403401. Local number, 85 N20 E21 07CCCC1.

LOCATION.--Lat 39°36'31", long 119°40'34", Hydrologic Unit 16050102, in Washoe County.

Owner: Jim Sweger.

AQUIFER.--Undetermined.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 11 in., depth 44 ft.

DATUM.--Elevation of land-surface datum is 4,510 ft, from topographic map. Measuring point: Top of casing, 1.5 ft below land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1982 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.89 ft below land-surface datum, October 17, 1980; lowest measured, 28.51 ft below land-surface datum, June 23, 1981.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	27.2	APR 16	27.16	JUN 15	27.12	AUG 27	27.59
MAR 5	27.47	MAY 15	27.10	JUL 24	28.41	SEP 17	27.20
WATER YEAR 1992		HIGHEST	27.10	MAY 15	LOWEST	28.41	JUL 24

393558119395001. Local number, 85 N20 E21 18ADCB1; previously published as 85 N20 E21 18DABD1.

LOCATION.--Lat 39°35'58", long 119°39'50", Hydrologic Unit 16050102, in Washoe County.

Owner: Tucker; previous owner, Richard Bailey

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled irrigation well, diameter 12 in., depth 262 ft, cased to 126 ft, perforated 86 to 126 ft.

DATUM.--Elevation of land-surface datum is 4,528 ft above sea level, from topographic map. Measuring point: Hole in casing, 1.0 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1984 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, intermittent; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.34 ft below land-surface datum, April 16, 1992; lowest measured, 36.99 ft below land-surface datum, July 23, 1979.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	31.42	MAY 15	33.24	JUL 22	34.44	SEP 17	32.65
APR 16	31.34	JUN 17	33.10	AUG 27	33.14		
WATER YEAR 1992		HIGHEST	31.34	APR 16	LOWEST	34.44	JUL 22

393544119394701. Local number, 85 N20 E21 18DADB1.

LOCATION.--Lat 39°35'44", long 119°39'47", Hydrologic Unit 16050102, in Washoe County.

Owner: Harley A. Mills.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled irrigation well, diameter 10 in., depth 125 ft, cased to 125 ft, perforated 50 to 121 ft.

DATUM.--Elevation of land-surface datum is 4,531 ft above sea level, from topographic map. Measuring point: Slit between cap and casing on east side, 1.3 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1975, 1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 47.02 ft below land-surface datum, April 4, 1985; lowest measured, 52.80 ft below land-surface datum, March 14, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	50.06	MAY 15	51.46	JUL 22	52.48	SEP 17	50.94
APR 16	49.78	JUN 17	50.90	AUG 27	51.15		
WATER YEAR 1992		HIGHEST	49.78	APR 16	LOWEST	52.48	JUL 22

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

427

SPANISH SPRINGS VALLEY--Continued

394154119405401. Local number, 85 N21 E20 12DACD1.

LOCATION.--Lat 39°41'54", long 119°40'54", Hydrologic Unit 16050102, in Washoe County.

Owner: William L. Wardrup.

AQUIFER.--Fractured granite of Cretaceous Age.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 6 in., depth 500 ft, cased to 500 ft, perforated 310 to 494 ft.

DATUM.--Elevation of land-surface datum is 4,875 ft above sea level, from topographic map. Measuring point: Top of casing 1.4 ft above land-surface datum.

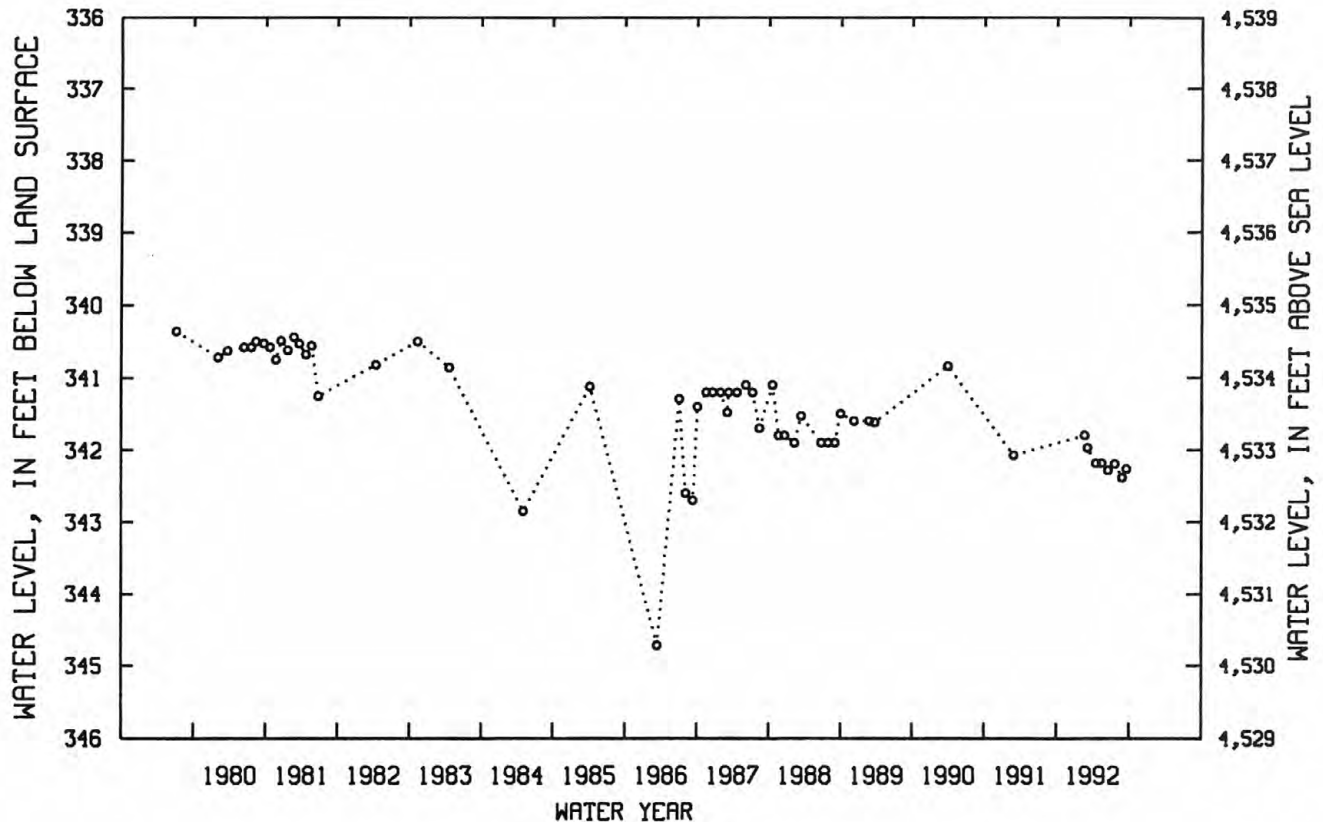
REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984 to 1986 yearly; July 1986 to March 1989, monthly; 1990 to 1991 yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level reported, 320 ft below land-surface datum, March 14, 1979; lowest measured, 344.72 ft below land-surface datum, March 13, 1986.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	341.8	APR 16	342.18	JUN 16	342.28	AUG 26	342.38
MAR 5	341.97	MAY 15	342.18	JUL 20	342.19	SEP 16	342.26
WATER YEAR 1992		HIGHEST	341.8	FEB 20	LOWEST	342.38	AUG 26



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

SPANISH SPRINGS VALLEY--Continued

394032119414601. Local number, 85 N21 E20 24BCBA1.

LOCATION.--Lat 39°40'32", long 119°41'46", Hydrologic Unit 16050102, in Washoe County.

Owner: Richard T. Donovan.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled irrigation well, diameter 12 in., depth 217 ft, cased to 217 ft, perforated 137 to 217 ft.

DATUM.--Elevation of land-surface datum is 4,492 ft above sea level, from topographic map. Measuring point: Top of 2-in. access pipe on the south side of casing, 1.0 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape by Washoe County Department of Public Works Utility Division personnel 1986 to 1989, and by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979, to 1983 (unpublished and available in the files of the U. S. Geological Survey); 1984, 1985 yearly; 1986 to 1989, monthly; 1990, 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 94.7 ft below land-surface datum, February 22, 1989; lowest measured, 107.52 ft below land-surface datum, September 1, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	97.46	MAY 19	98.65	JUL 21	98.89	SEP 17	99.13
APR 16	97.68	JUN 16	98.76	AUG 26	99.59		

WATER YEAR 1992	HIGHEST	97.46	MAR 5	LOWEST	99.59	AUG 26
-----------------	---------	-------	-------	--------	-------	--------

393904119420701. Local number, 85 N21 E20 26DDCC1.

LOCATION.--Lat 39°39'04", long 119°42'07", Hydrologic Unit 16050102, in Washoe County.

Owner: Sky Ranch; previous owners, North American Aviation, 1990-91; Rockwell International, 1985-89.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled industrial well, diameter 24 in., depth 821 ft, 24-in. diameter casing to 48 ft, 10-in diameter casing, 48 to 786 ft, perforated 37 to 786 ft.

DATUM.--Elevation of land-surface datum is 4,516 ft above sea level, from topographic map. Measuring point: Top of 2-in. access pipe on the north side of casing, 0.8 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1964, 1965, 1980 to 1981 (unpublished and available in the files of the U. S. Geological Survey); 1984, 1985, yearly; 1986-1989, monthly; 1990, 1991, yearly; February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 63.09 ft below land-surface datum, March 18, 1981; lowest measured, 83.80 ft below land-surface datum, September 16, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	75.67	APR 16	70.05	JUN 15	70.36	AUG 25	77.75
MAR 5	70.67	MAY 15	74.33	JUL 20	76.94	SEP 16	83.80

WATER YEAR 1992	HIGHEST	70.05	APR 16	LOWEST	83.80	SEP 16
-----------------	---------	-------	--------	--------	-------	--------

393812119425701. Local number, 85 N21 E20 34DDDC1.

LOCATION.--Lat 39°38'12", long 119°42'57", Hydrologic Unit 16050102, in Washoe County.

Owner: Washoe County Department of Public Works Utility Division.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled public supply well, diameter 10 in., depth 300 ft, cased to 300 ft, perforated 58 to 288 ft.

DATUM.--Elevation of land-surface datum is 4,522 ft above sea level, from topographic map. Measuring point: 1-in. access port in casing, white PVC pipe under top cover, 0.6 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1980, 1981, 1986 to 1991 (unpublished and available in the files of the U. S. Geological Survey); February to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.78 ft below land-surface datum, July 17, 1992; lowest measured, 32.15 ft below land-surface datum, September 16, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 20	28.81	APR 16	29.19	JUN 15	31.35	AUG 25	29.55
MAR 5	29.49	MAY 29	29.40	JUL 17	28.78	SEP 16	32.15

WATER YEAR 1992	HIGHEST	28.78	JUL 17	LOWEST	32.15	SEP 16
-----------------	---------	-------	--------	--------	-------	--------

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

429

SPANISH SPRINGS VALLEY--Continued

393927119401301. Local number, 85 N21 E21 30CAA1.

LOCATION.--Lat 39°39'27", long 119°40'13", Hydrologic Unit 16050102, in Washoe County.

Owner: Stephen & Cheryl Mack; previous owner, Bob Hivert

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 in., depth 350 ft, cased to 350 ft, perforated 310 to 350 ft.

DATUM.--Elevation of land-surface datum is 4,715 ft above sea level, from topographic map. Measuring point: 1-in. plug at top of casing, 1.6 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979, 1980 and 1982 (unpublished and available in the files of the U. S. Geological Survey); 1987 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 209.23 ft below land-surface datum, March 5, 1992; lowest measured, 219.40 ft below land-surface datum, February 25, 1991.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	209.23	MAY 15	215.45	JUL 20	209.50	SEP 16	209.63
APR 16	209.45	JUN 16	209.54	AUG 26	209.99		
WATER YEAR 1992		HIGHEST	209.23	MAR 5	LOWEST	215.45	MAY 15

393828119401601. Local number, 85 N21 E21 31CBDB1; previously published as 85 N21 E21 31CACA1.

LOCATION.--Lat 39°38'28", long 119°40'16", Hydrologic Unit 16050102, in Washoe County.

Owner: Bud May.

AQUIFER.--Alluvium of Quaternary Age.

WELL CHARACTERISTICS.--Drilled domestic well, diameter 8 in., depth 421 ft, cased to 291 ft, perforated 213 to 291 ft.

DATUM.--Elevation of land-surface datum is 4,668 ft above sea level, from topographic map. Measuring point: Top of casing on the south side, 1.0 ft above land-surface datum.

REMARKS.--Water-resources evaluation of Spanish Springs Valley, northwest Nevada; monthly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1979 to 1983 (unpublished and available in the files of U. S. Geological Survey); 1984 to 1991, yearly; March to September 1992, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 132.27 ft below land-surface datum, March 14, 1986; lowest measured, 144.04 ft below land-surface datum, March 14, 1988.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 5	134.35	MAY 15	136.23	JUL 21	135.93	SEP 17	137.1
APR 16	134.49	JUN 17	138.1	AUG 27	137.9		
WATER YEAR 1992		HIGHEST	134.35	MAR 5	LOWEST	138.1	JUN 17

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

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.

WELL CHARACTERISTICS.--Drilled unused well, diameter 14 in., depth 813 ft, cased to 540 ft, perforated 505 to 540 ft.

INSTRUMENTATION.--Water-level recorder since August 1983, hourly.

DATUM.--Elevation of land-surface datum is 3,962 ft. 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,

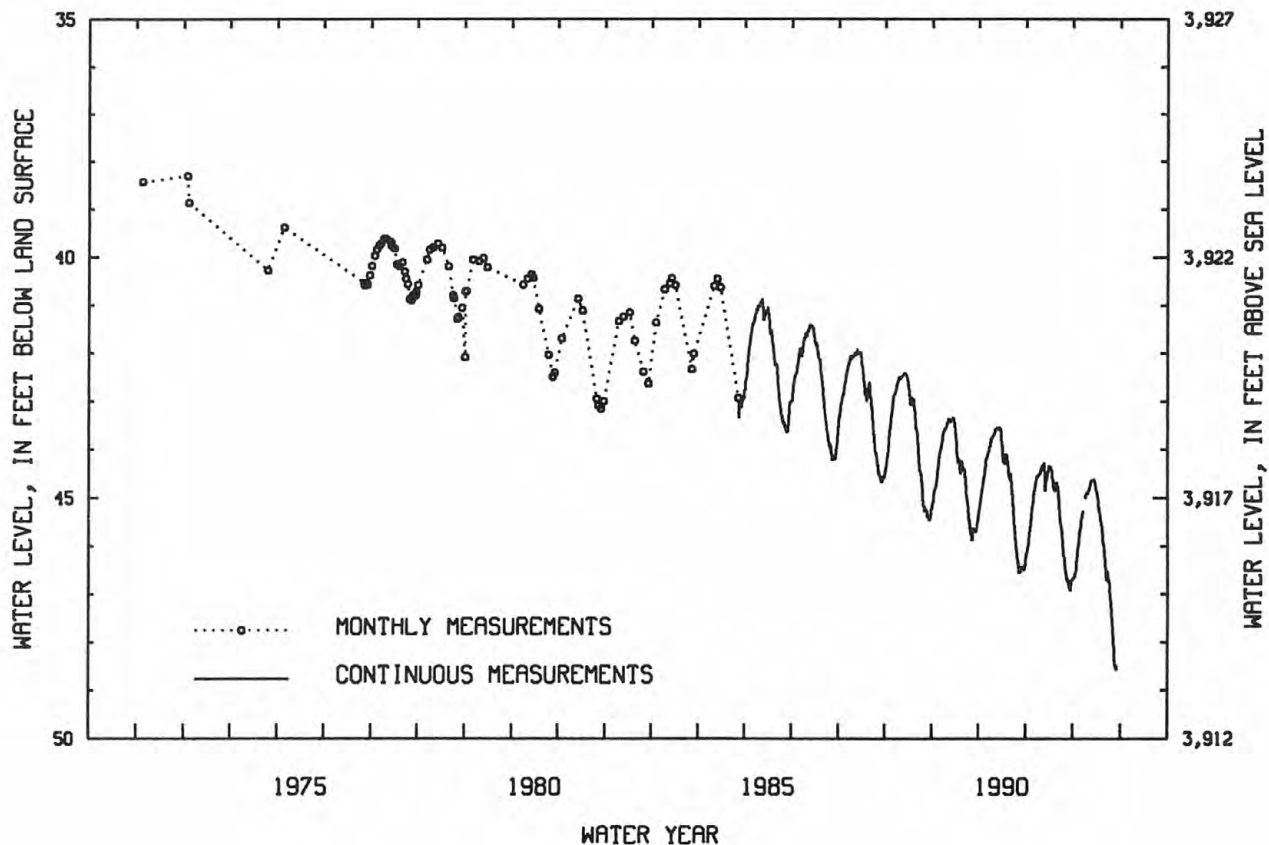
(unpublished and available in the files of the U. S. Geological Survey); September 1986 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.30 ft below land-surface datum, October 9, 1972; lowest recorded, 48.57 ft below land-surface datum, August 29, 30, 1992.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.67	46.06	45.40	44.92	44.76	44.63	44.96	45.57	46.43	46.76	47.91	---
10	46.66	45.97	45.33	44.93	44.68	44.65	45.13	45.65	46.64	46.99	48.15	---
15	46.61	45.80	45.28	44.93	44.64	44.69	45.27	45.90	46.67	47.13	48.44	---
20	46.55	45.70	---	44.90	44.64	44.78	45.31	45.97	46.53	47.29	48.49	---
25	46.39	45.63	---	44.86	44.65	44.84	45.45	46.08	46.65	47.49	48.55	---
EOM	46.20	45.47	45.01	44.83	44.64	44.94	45.48	46.24	46.71	47.73	48.52	---

WATER YEAR 1992 HIGHEST 44.62 MAR 3, 5-8 LOWEST 48.57 AUG 29, 30



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

431

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10AAC1.

LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.

Owner: E. S. Bowman.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 800 ft, cased to 472 ft, perforated 100 to 450 ft.

INSTRUMENTATION.--Noon daily graphic recorder.

DATUM.--Elevation of land-surface datum is 2,885 ft. Measuring point: Edge of recorder shelf, 1.2 ft above land-surface datum.

REMARKS.--Measurements supplied by Office of the Nevada State Engineer.

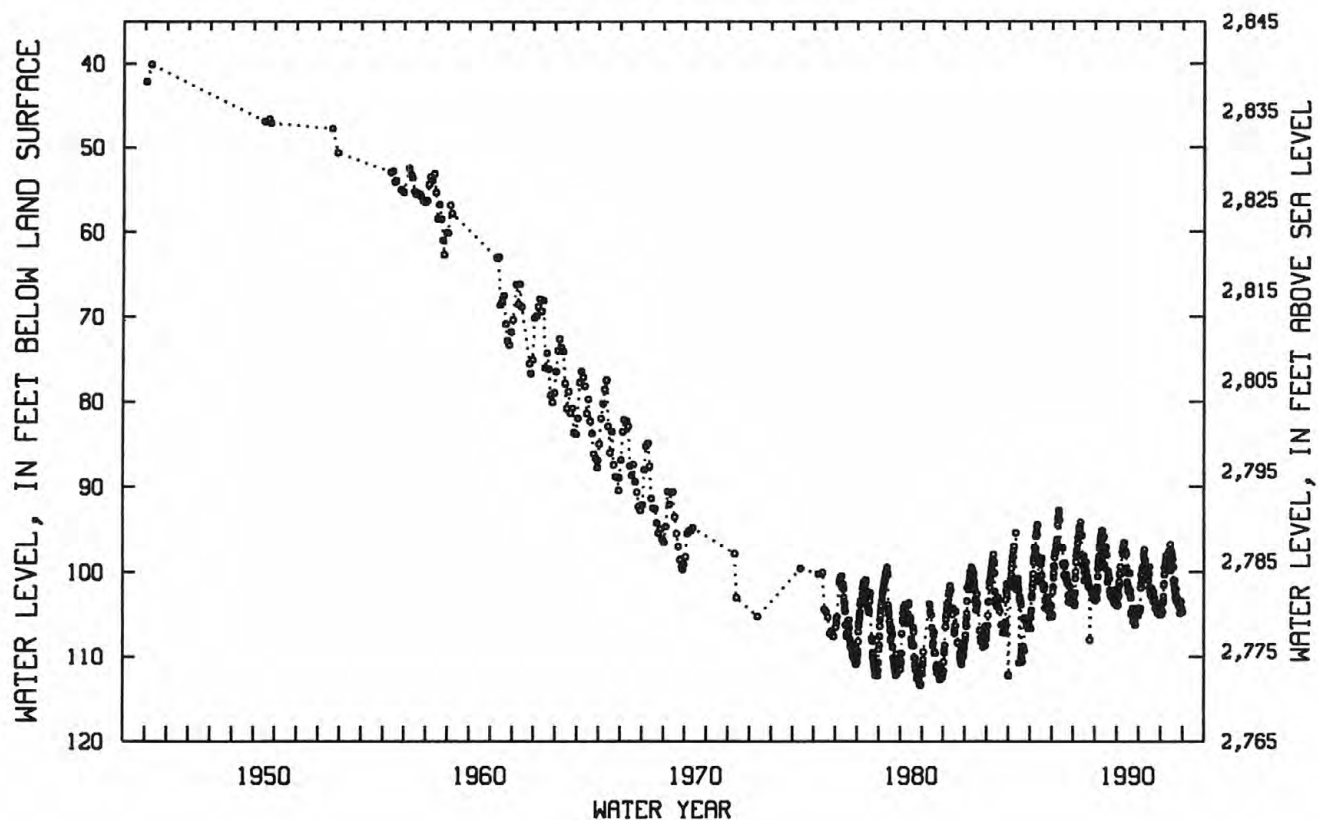
PERIOD OF RECORD.--1944, 1950 through 1970, monthly or intermittent; 1972, 1973, 1975, yearly (unpublished and available in the files of the U. S. Geological Survey); February to August, 1976, monthly; October 1976 to current year, weekly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.34 ft below land-surface datum, Octobrt 13, 1944; lowest measured, 112.25 ft below land-surface datum, September 5, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	102.04	100.72	96.86	94.32	96.20	93.66	94.12	95.80	99.28	100.02	100.60	101.15
10	102.42	100.70	96.74	96.14	94.75	94.77	94.21	97.60	99.96	100.20	101.24	101.53
15	102.20	100.38	96.04	96.06	93.68	94.35	94.35	98.04	100.18	100.42	101.22	101.57
20	101.88	99.86	95.74	95.58	93.65	96.28	94.78	98.20	99.76	100.54	101.22	101.54
25	101.86	98.28	95.20	95.26	93.66	95.18	95.80	97.68	100.46	100.84	102.19	101.94
EOM	102.00	98.12	95.00	94.95	93.66	93.66	95.80	98.86	100.38	100.62	101.42	102.02

WATER YEAR 1992 HIGHEST 92.76 MAR 16 LOWEST 102.42 OCT 10



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.

WELL CHARACTERISTICS.--Drilled test well, diameter 10 in., depth 110 ft, cased to 122 ft, perforated 20 to 120 ft.

INSTRUMENTATION.--Water-level recorder since August 1983, hourly.

DATUM.--Elevation of land-surface datum is 6,037 ft. 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.

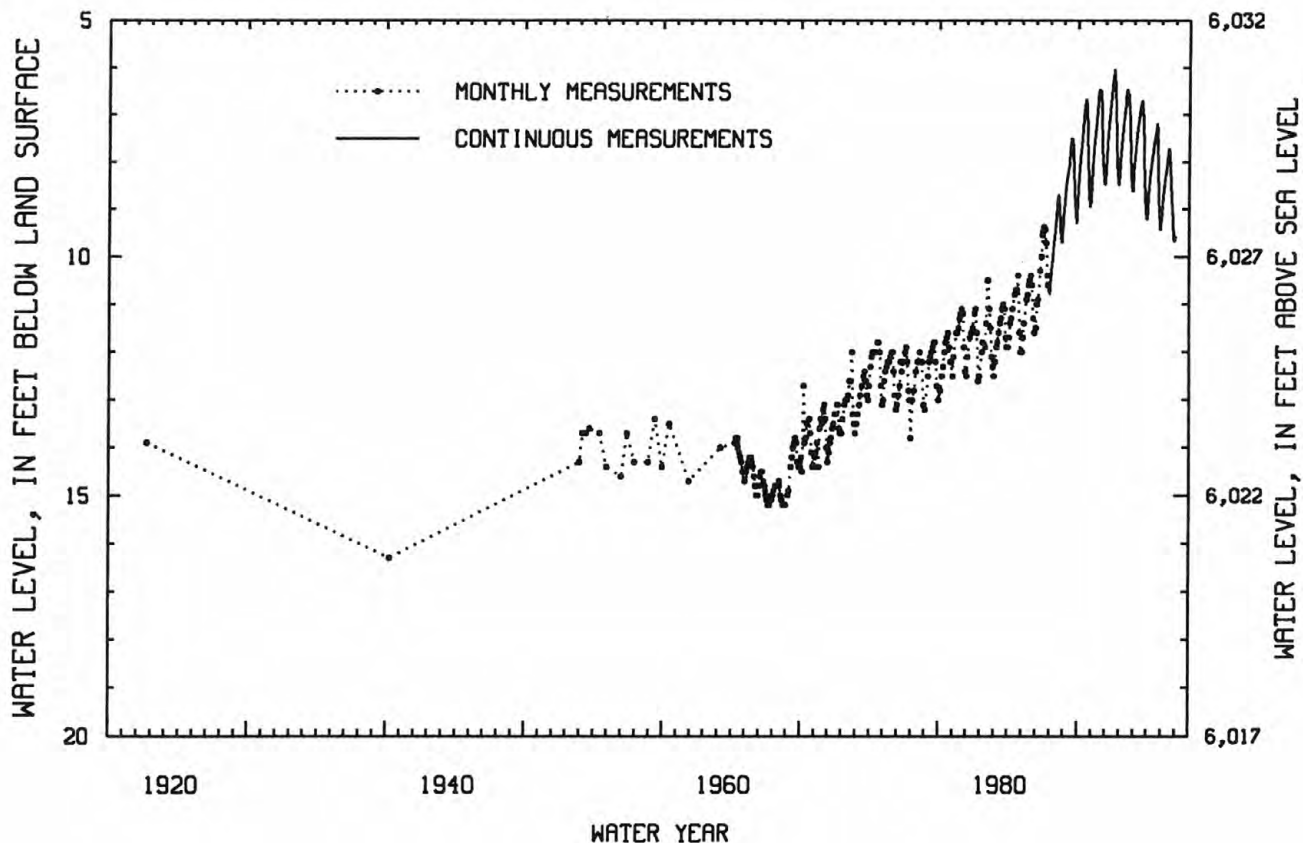
PERIOD OF RECORD.--1918, 1936, 1949 (unpublished and available in the files of the U. S. Geological Survey); 1950 through 1957, semi-annually; 1959, yearly; January 1961 through September 1983, monthly; October 1983 to current year, hourly.

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.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.18	---	8.58	8.34	8.22	7.96	7.73	7.87	8.44	8.92	9.42	9.67
10	9.14	8.82	8.53	8.32	8.14	7.90	7.72	7.93	8.54	9.00	9.50	9.67
15	9.09	8.77	8.49	8.29	8.10	7.85	7.74	8.03	8.61	9.05	9.57	9.66
20	9.04	8.72	8.46	8.26	8.07	7.81	7.74	8.13	8.65	9.11	9.61	9.64
25	---	8.66	8.42	8.23	8.04	7.78	7.75	8.22	8.77	9.21	9.66	9.61
EOM	---	8.62	8.39	8.20	7.99	7.75	7.80	8.33	8.90	9.33	9.68	9.57

WATER YEAR 1992 HIGHEST 7.72 APR 4-5, 7-11 LOWEST 9.69 AUG 31, SEP 1, 2



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

433

CAVE VALLEY

382807114521001. Local number, 180 N07 E63 14BADD1.

LOCATION.--Lat 38°28'07", long 114°52'10", Hydrologic Unit 16060009, in Lincoln County.

Owner: U. S. Air Force.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 17 in., depth 460 ft, cased to 460 ft, perforated 210 to 250 ft and 375 to 435 ft.

INSTRUMENTATION.--Water-level recorder since October 1983, hourly.

DATUM.--Elevation of land-surface datum is 6,008 ft. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--In Cave Valley.

PERIOD OF RECORD.--1980; October 1983 to April 1986, hourly (unpublished and available in the files of the U. S. Geological Survey); October 1990 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 222.05 ft below land-surface datum, September 24, 1992; lowest recorded, 226.9 ft below land-surface datum, October 24, 1983.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	222.48	222.46	222.41	222.23	222.36	222.38	222.38	222.36	222.26	222.39	222.30	222.43
10	222.56	222.44	222.33	222.50	222.29	222.54	222.40	222.42	222.38	222.29	222.26	222.43
15	222.42	222.36	222.51	222.60	222.29	222.29	222.39	222.34	222.37	222.33	222.29	222.36
20	222.36	222.58	222.62	222.41	222.39	222.33	222.44	222.27	222.36	222.23	222.25	222.31
25	222.39	222.42	222.39	222.38	222.49	222.42	222.44	222.34	222.29	222.44	222.43	222.33
EOM	222.60	222.47	222.54	222.38	222.25	222.41	222.26	222.44	222.28	222.39	222.29	222.28

WATER YEAR 1992 HIGHEST 222.05 SEP 24 LOWEST 222.80 NOV 19

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

COYOTE SPRING VALLEY

364743114533101. Local number, 210 S13 E63 23DDDC1.

LOCATION.--Lat 36°47'43", long 114°53'31", Hydrologic Unit 15010012, in Clark County.

Owner: U. S. Geological Survey - MX

AQUIFER.--Paleozoic carbonate rock.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 669 ft, cased to 669 ft.

INSTRUMENTATION.--Water-level recorder, July 1986 to September 1988, December 1990 to September 1991, hourly.

DATUM.--Elevation of land-surface datum is 2,173 ft. Measuring point: Top of casing, 1.0 ft above land-surface datum.

REMARKS.--CE-DT-4 Well.

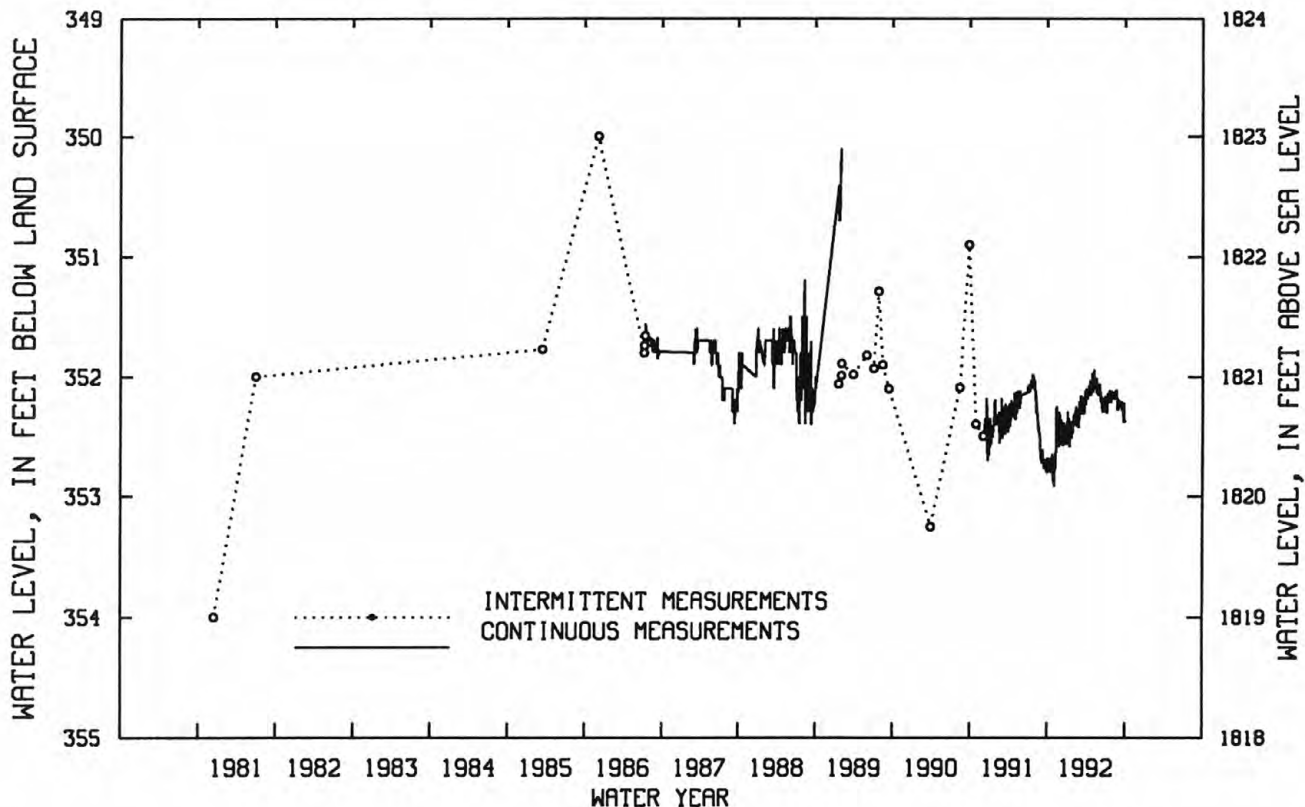
PERIOD OF RECORD.--December 1980, 1981, 1985, 1986, intermittently; July 1986 to September 1986, hourly, (unpublished and available in the files of the U. S. Geological Survey); October 1986 to September 1988, hourly; September 1988 to December 1990, monthly; December 1990 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 350.00 ft below land-surface datum, December 4, 1985; lowest reported, 354 ft below land-surface datum, December 12, 1980.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	352.76	352.78	352.44	352.30	352.37	352.26	352.12	352.06	352.06	352.20	352.16	352.25
10	352.78	352.63	352.40	352.51	352.30	352.32	352.12	352.06	352.21	352.18	352.17	352.25
15	352.72	352.35	352.55	352.59	352.27	352.21	352.08	352.01	352.24	352.18	352.16	352.23
20	352.70	352.53	352.56	352.47	352.35	352.20	352.11	352.01	352.24	352.11	352.13	352.26
25	352.71	352.42	352.46	352.42	352.41	352.24	352.08	352.08	352.23	352.22	352.23	352.32
EOM	352.90	352.43	352.55	352.41	352.25	352.16	351.97	352.16	352.17	352.18	352.20	352.37

WATER YEAR 1992 HIGHEST 351.90 APR 30 LOWEST 352.97 OCT 31, NOV 2, 3



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

435

LAS VEGAS VALLEY

363212115240301. Local number, 212 S16 E58 24BB 1.

LOCATION.--Lat 36°32'12", long 115°24'03", Hydrologic Unit 15010015, in Clark County.

Owner: Department of Interior, U. S. Fish and Wildlife Service.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 720 ft, cased to 693 ft, perforated 665 to 695 ft.

INSTRUMENTATION.--Water-level recorder, since October 1990, hourly.

DATUM.--Elevation of land-surface datum is 3,475 ft. Measuring point: 0.50 ft above land-surface datum.

REMARKS.--SBH-1 Well.

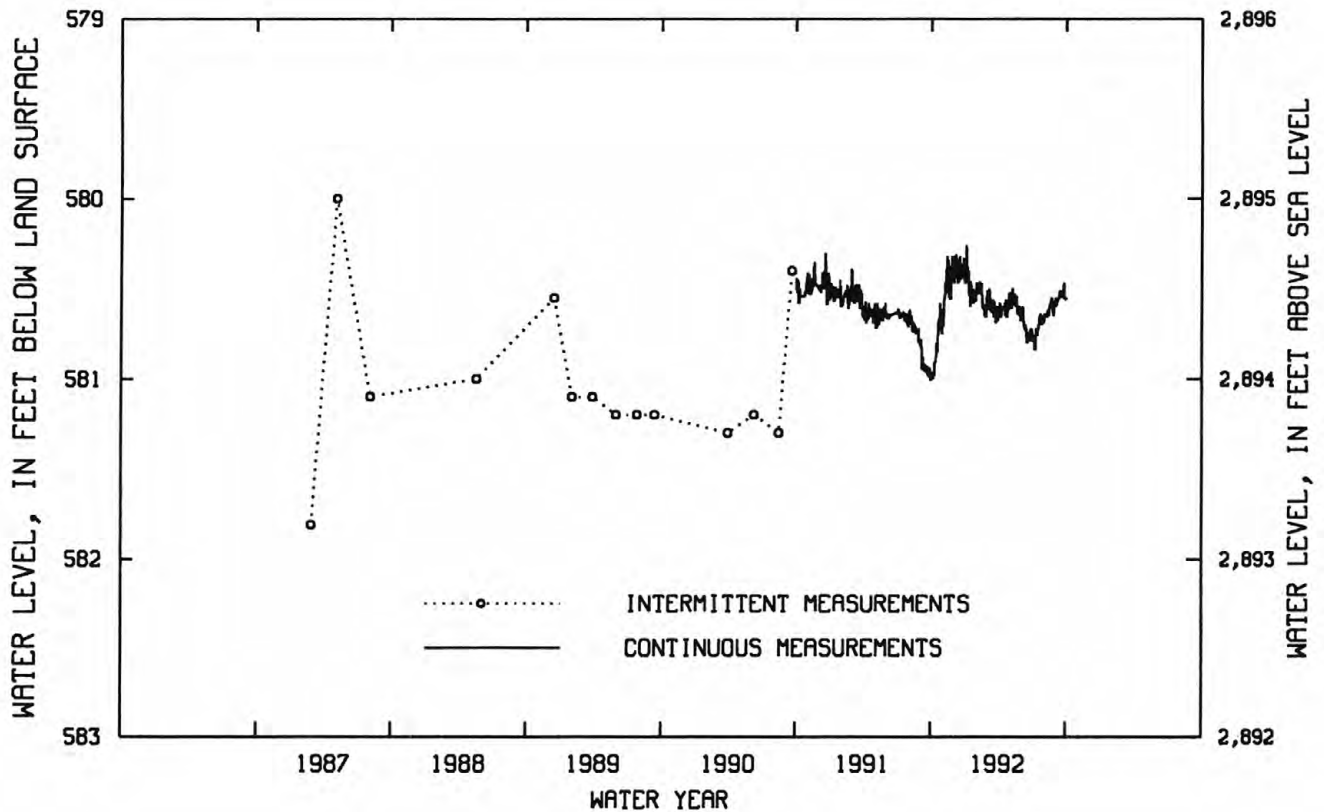
PERIOD OF RECORD.--February 1987 through September 1990, intermittent, (unpublished and available in the files of the U. S. Geological Survey); October 1990 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 580.14 ft below land-surface datum, January 5, 1992; lowest measured, 581.81 ft below land-surface datum, February 25, 1987.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	580.99	580.60	580.38	580.26	580.50	580.54	580.62	580.57	580.60	580.77	580.66	580.57
10	580.96	580.47	580.33	580.46	580.48	580.61	580.61	580.54	580.72	580.74	580.63	580.55
15	580.84	580.39	580.45	580.60	580.47	580.57	580.60	580.54	580.73	580.73	580.61	580.53
20	580.75	580.49	580.45	580.50	580.59	580.57	580.60	580.55	580.76	580.66	580.57	580.52
25	580.66	580.46	580.40	580.51	580.65	580.64	580.61	580.60	580.74	580.70	580.62	580.55
EOM	580.71	580.42	580.45	580.52	580.54	580.65	580.52	580.67	580.74	580.69	580.57	580.55

WATER YEAR 1992 HIGHEST 580.14 JAN 5 LOWEST 581.07 OCT 1



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

361843115161001. Local number, 212 S19 E60 09BCC1.

LOCATION.--Lat 36°18'43", long 115°16'10", Hydrologic Unit 15010015, in Clark County.

Owner: J. P. Goumond.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 830 ft, cased to 140 ft.

INSTRUMENTATION.--Noon graphic daily recorder.

DATUM.--Elevation of land-surface datum is 2,510 ft. Measuring point: Top of casing, 0.5 ft above land-surface datum.

REMARKS.--Measurements supplied by Office of Nevada State Engineer.

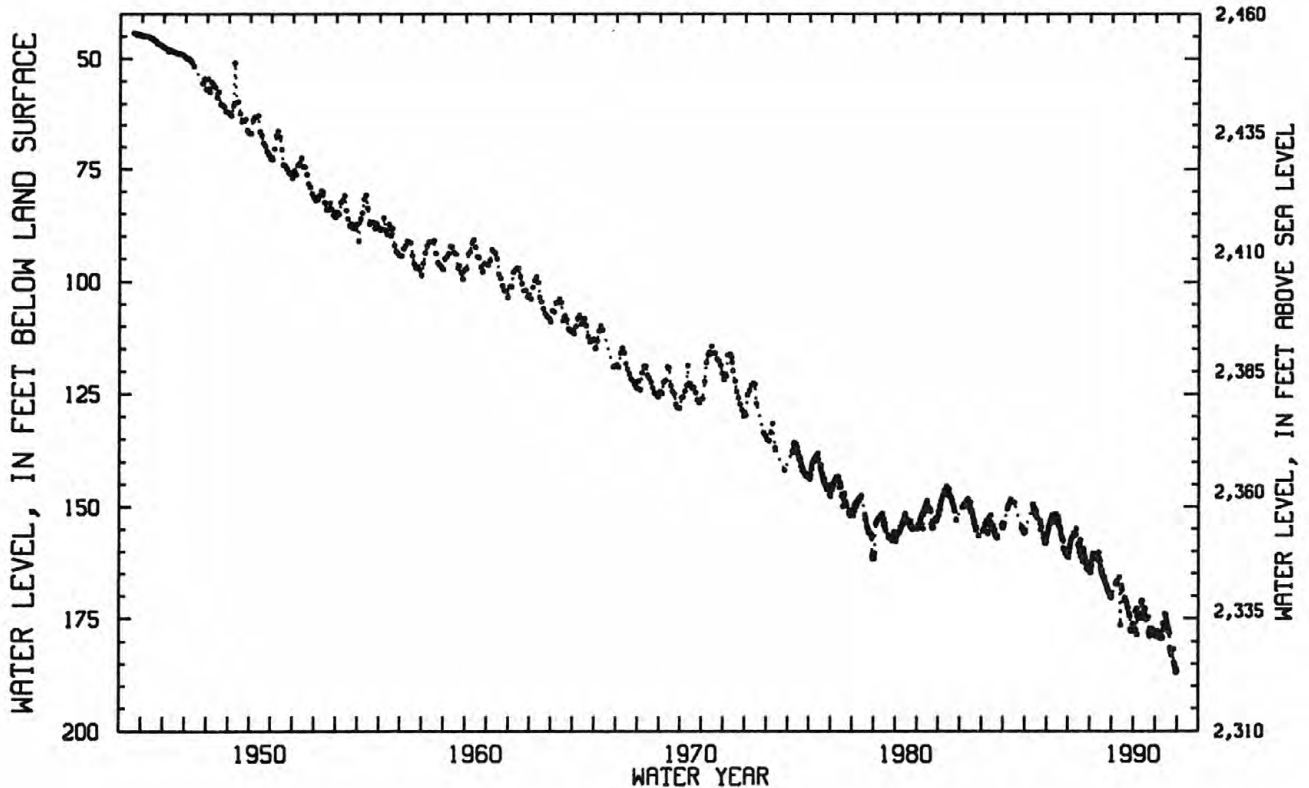
PERIOD OF RECORD.--1944, 1945 through 1949, every 5 days (unpublished and available in the files of the Nevada Division of Water Resources); 1950 through 1974, monthly; 1975 to current year, continuous (available in the files of the Nevada Division of Water Resources).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.30 ft below land-surface datum, May 15, 1944; lowest measured, 186.94 ft below land-surface datum, September 15, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	178.48	177.70	179.10	178.68	179.20	177.17	174.18	177.64	181.50	183.10	181.76	185.94
10	178.86	177.86	179.04	179.34	176.05	174.18	175.16	176.92	181.80	181.73	181.76	186.82
15	178.86	177.77	179.04	179.23	177.40	173.98	175.42	177.55	182.04	181.76	184.70	186.94
20	178.85	177.77	179.04	179.22	177.38	174.38	176.06	177.40	182.27	181.76	185.14	186.29
25	178.86	177.77	179.04	179.22	177.47	174.49	176.52	177.93	182.52	181.76	185.14	186.17
EOB	178.86	177.77	179.03	179.20	177.36	174.36	177.13	178.27	182.88	181.76	185.90	186.62

WATER YEAR 1992 HIGHEST 173.98 MAR 15 LOWEST 186.94 SEP 15



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

437

LAS VEGAS VALLEY--Continued

36161115151301. Local number, 212 S19 E60 27BDC1.

LOCATION.--Lat 36°16'11", long 115°15'13", Hydrologic Unit 15010015, in Clark County.

Owner: U. S. Geological Survey.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused artesian observation well, diameter 6 in., depth 905 ft, cased to 84 ft.

DATUM.--Elevation of land-surface datum is 2,360 ft above sea level, from topographic map. Measuring point: Hole on west side of casing, 1.2 ft above land-surface datum.

REMARKS.--Annual groundwater network; weekly measurements with steel tape supplied by Office of Nevada State Engineer and U. S. Geological Survey personnel.

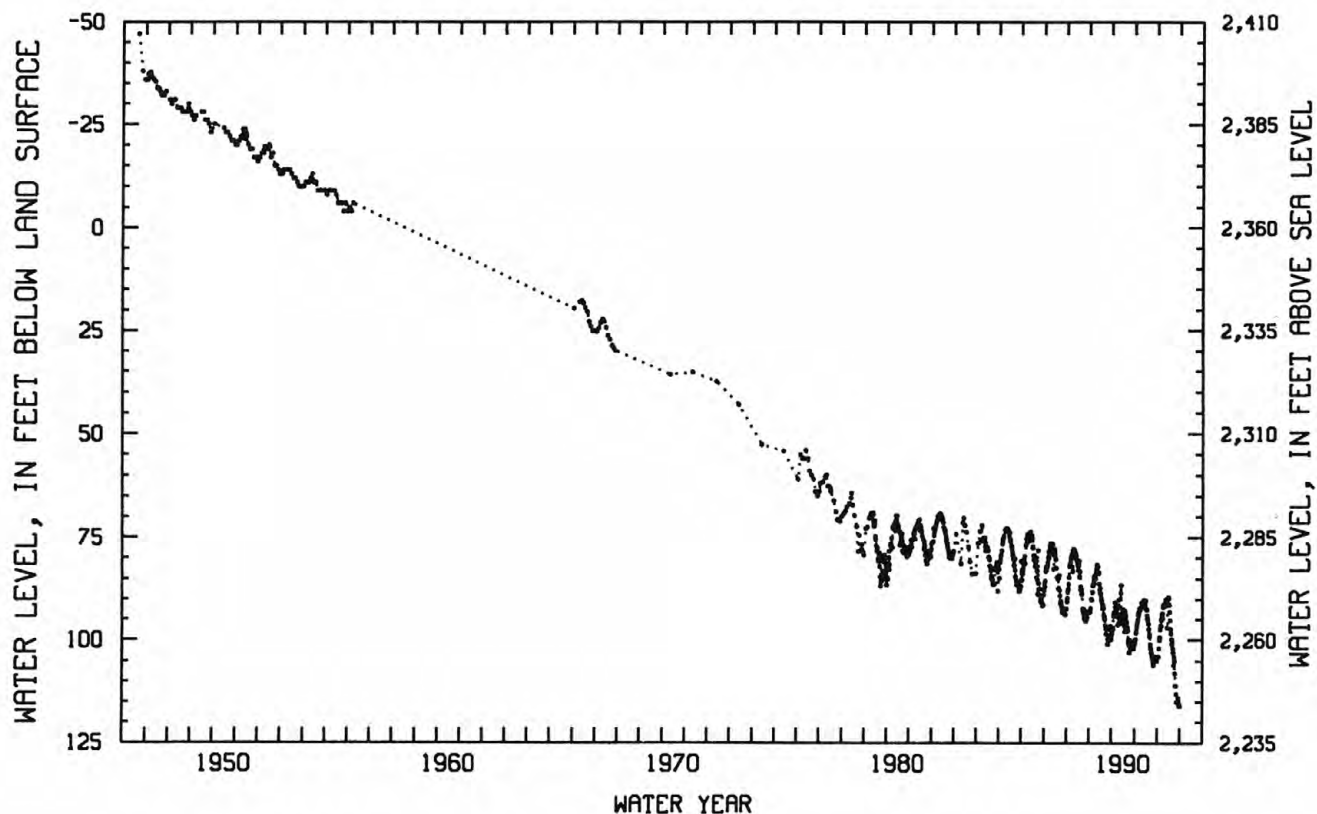
PERIOD OF RECORD.--June 1946 to March 1974, monthly (unpublished and available in the files of the U. S. Geological Survey); February 1975 through December 1978, monthly; January 1979 to current year, weekly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.90 ft above land-surface datum, June 3, 1946; lowest measured, 115.99 ft below land-surface datum, September 21 and 28, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	104.14	DEC 2	96.64	FEB 3	91.57	APR 6	89.71	JUN 1	100.08	AUG 3	112.55
15	103.87	9	95.13	12	90.57	14	91.43	8	102.28	10	114.55
21	103.53	10	94.79	18	89.98	20	93.09	15	103.04	17	114.74
28	102.28	16	93.98	24	90.48	27	95.21	16	103.47	24	115.19
NOV 4	100.45	23	93.48	MAR 3	90.64	MAY 4	97.40	23	105.75	SEP 1	114.46
12	99.39	30	94.74	9	90.38	11	98.49	29	103.94	8	114.55
18	97.49	JAN 6	91.89	11	97.14	21	99.93	JUL 6	105.13	14	114.99
25	96.73	13	91.33	16	90.09	27	100.80	13	107.89	21	115.99
		21	91.61	23	91.53			20	110.97	28	115.99
		28	91.69	30	89.54			27	110.52		

WATER YEAR 1992 HIGHEST 89.54 MAR 30 LOWEST 115.99 SEP 21, 28



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

360846115091401. Local number, 212 S21 E61 04DDBA1.

LOCATION.--Lat 36°08'46", long 115°09'14", Hydrologic Unit 15010015, in Clark County.

Owner: Boulder Dam Inc.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 500 ft, cased to 500 ft.

DATUM.--Elevation of land-surface datum is 2,042 ft above sea level, from topographic map. Measuring point: Top of casing, 1.5-in. nipple on southwest side, 1.3 ft above land-surface datum.

REMARKS.--Weekly measurements with steel tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--1970 to 1980, yearly (unpublished and available in the files of the U. S. Geological Survey);

1981 through 1982, semi-annually; 1983 through 1985, yearly; January 1986 through September 1987, weekly

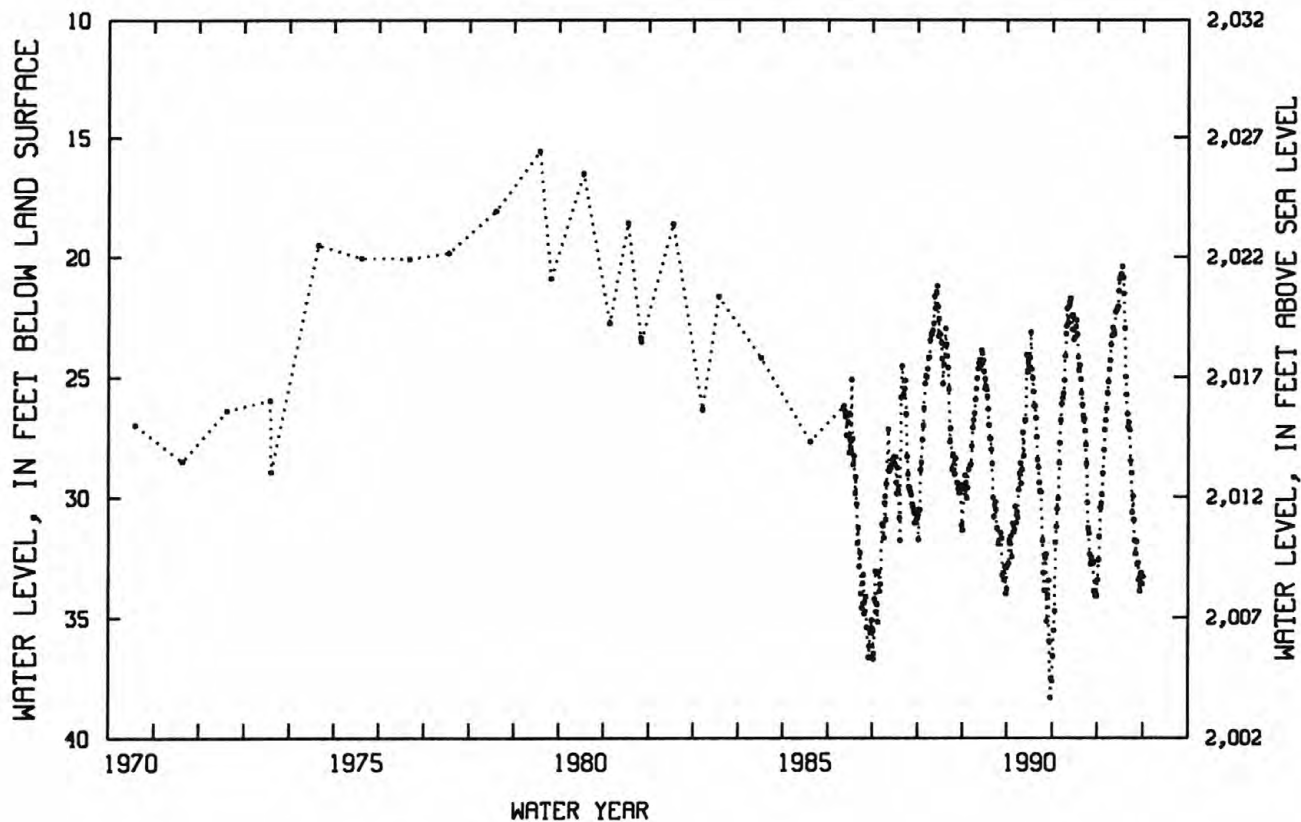
(unpublished and available in the files of the U. S. Geological Survey); October 1988 to current year, weekly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.58 ft below land-surface datum, March 2, 1979;

lowest measured, 38.35 ft below land-surface datum, September 4, 1990.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	31.63	DEC 2	26.32	FEB 3	23.24	APR 6	20.42	JUN 1	26.89	AUG 3	31.85
15	30.46	9	25.65	12	22.32	14	20.89	8	27.20	10	32.78
21	30.27	10	25.69	18	22.26	20	21.55	16	28.49	17	32.72
28	29.90	16	25.20	24	22.18	27	22.99	23	29.00	24	33.43
NOV 4	29.02	23	24.69	MAR 3	22.09	MAY 4	24.99	30	30.65	SEP 1	33.90
12	28.03	30	24.32	9	21.43	11	25.73	JUL 6	29.98	8	33.16
18	27.19	JAN 6	23.67	16	20.93	21	26.54	13	30.95	10	33.56
25	26.80	13	23.31	23	20.84	27	27.09	20	31.79	14	33.14
		21	22.98	30	20.73			27	32.35	21	33.61
		28	23.11							28	33.30
WATER YEAR 1992			HIGHEST	20.42	APR 6	LOWEST	33.90	SEP 1			



439

439

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.

Owner: Fitzpatrick.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 355 ft.

DATUM.--Elevation of land-surface datum is 2,221 ft above sea level, from topographic map. Measuring point:

Hole in top of casing, 0.8 ft above land-surface datum.

REMARKS.--Annual groundwater 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 current year, weekly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, January 25, 1939; lowest measured, 170.85 ft below land-surface datum, March 10, 1992.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL			DATE			WATER LEVEL		
NOV	25	168.28	JAN	21	167.01	MAR	10	170.85	MAY	4	166.93	JUL	6	169.05	SEP	1	169.14						
DEC	2	168.09		28	167.04		16	166.17		11	166.72		13	168.58		8	168.92						
	9	170.57	FEB	3	166.95		23	166.35		21	166.94		20	168.64		14	168.95						
	10	167.89		12	166.47		30	165.92	JUN	1	166.26		27	168.84		21	169.01						
	23	167.52		18	166.68	APR	6	165.92		8	168.02	AUG	3	168.97		28	168.96						
	30	167.36		24	166.65		14	165.87		23	167.54		10	169.04									
JAN	6	168.24	MAR	3	166.25		20	166.38		30	169.15		17	168.92									
	13	167.35		9	166.08		27	166.85					24	169.23									
					WATER YEAR 1992			HIGHEST		165.87	APR 14		LOWEST		170.85	MAR 10							

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

UPPER MOAPA VALLEY

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 - MX.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 478 ft, cased to 478 ft.

INSTRUMENTATION.--Water-level recorder since February 1991, hourly.

DATUM.--Elevation of land-surface datum is 2,186 ft, from topographic map. Measuring point: top of casing, 1.30 ft above land-surface datum.

REMARKS.--CSV-2 Well.

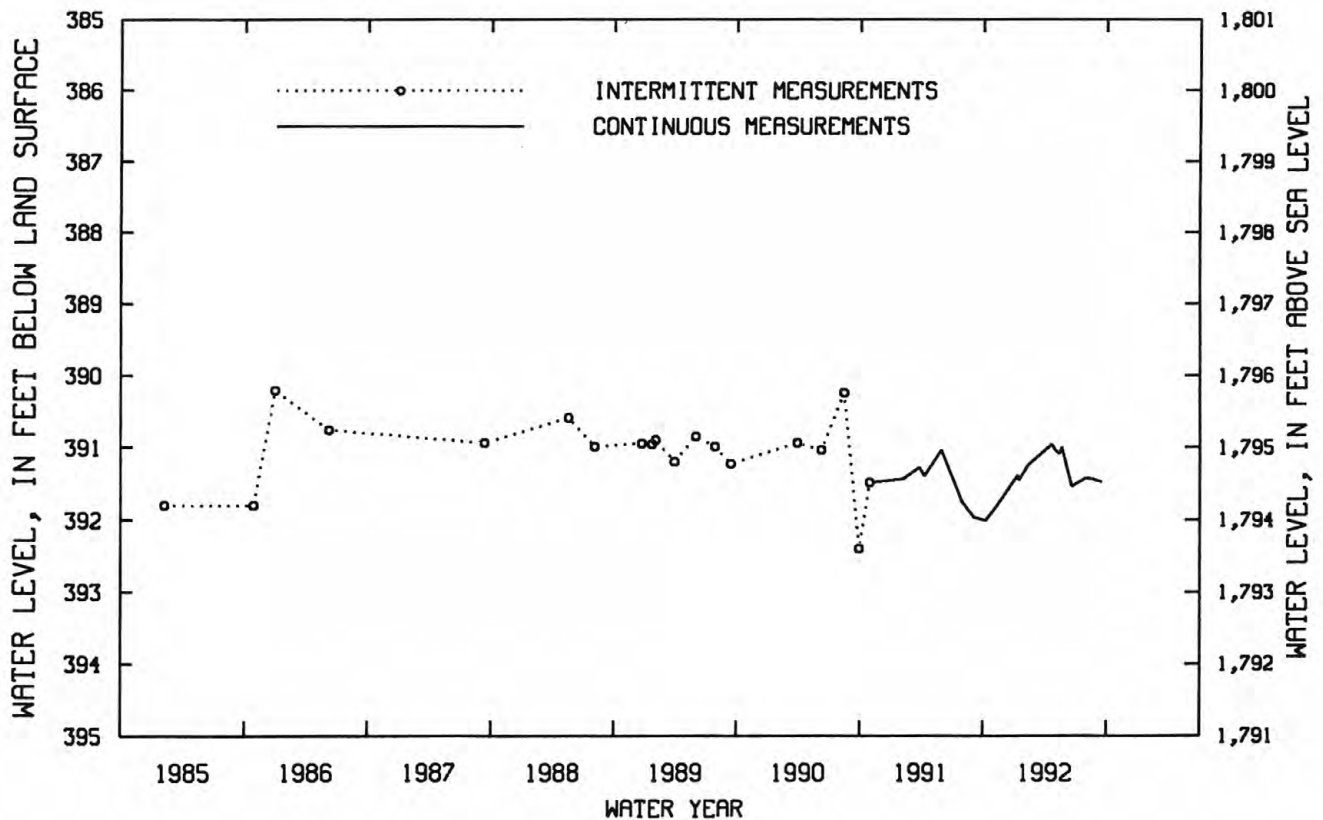
PERIOD OF RECORD.--February 1985 through December 1988, yearly; January 1989 to September 1990, monthly (unpublished and available in the files of the U. S. Geological Survey); October 1990 to current year, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 390.21 ft below land-surface datum, December 30, 1985; lowest measured, 392.4 ft below land-surface datum, September 28, 1990.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	392.09	391.81	391.62	391.14	391.23	391.20	391.05	---	391.21	---	---	391.53
10	391.98	391.88	391.48	391.41	391.21	391.28	391.03	---	391.42	---	---	391.51
15	391.85	391.89	391.64	391.53	391.18	391.11	391.02	---	391.49	---	---	391.48
20	391.80	391.96	391.69	391.32	391.24	391.06	391.04	391.02	---	---	391.42	391.49
25	391.84	391.75	391.44	391.27	391.29	391.12	---	391.12	---	---	391.58	391.57
EOM	392.02	391.79	391.55	391.25	391.09	391.09	---	391.30	---	---	391.47	391.56

WATER YEAR 1992 HIGHEST 390.86 APR 4 LOWEST 392.36 OCT 1



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

441

AMARGOSA DESERT

364556116413501. Local number, 230 S13 E47 35BDBA1.

LOCATION.--Lat 36°45'56", long 116°41'35", Hydrologic Unit 18090202, in Nye County.

Owner: U. S. Geological Survey.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth 404 ft, cased to 404 ft, perforated 364 to 404 ft.

DATUM.--Elevation of land-surface datum is 4,777.20 ft above sea level. Measuring point: Top of metal casing, 0.9 ft above land-surface datum.

REMARKS.--Monthly measurements with electric tape supplied by U. S. Geological Survey personnel.

PERIOD OF RECORD.--February 1987 to September 1990, monthly (unpublished and available in the files of the U. S. Geological Survey); October 1990 to current year, monthly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 366.8 ft below land-surface datum, April 24, 1990; lowest measured, 369.8 ft below land-surface datum, March 17, 1987.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 14	367.5	DEC 18	367.5	FEB 20	367.5	APR 23	367.5	JUN 4	367.5	AUG 26	367.6
NOV 21	367.5	JAN 16	367.5	MAR 23	367.5	MAY 19	367.5	JUL 28	367.6	SEP 24	367.6
		WATER YEAR 1992		HIGHEST	367.5	OCT 14		LOWEST	367.6	JUL 28	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 001, Churchill; 003, Clark; 005, Douglas; 007, Elko; 009, Esmeralda; 011, Eureka; 013, Humboldt; 015, Lander; 017, Lincoln; 019, Lyon; 021, Mineral; 023, Nye; 027, Pershing; 029, Storey; 031, Washoe; 033, White Pine.

Independent City code: 510, Carson City.

Water-use codes: C, commercial; F, fire; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.

Geologic-unit codes: 100VLFL, Cenozoic valley fill deposits; 110LSVG, Quaternary Las Vegas Formation; 110VLFL, Quaternary valley fill, undifferentiated; 111ALVF, Holocene alluvial-fan deposits; 111ALVM, Holocene alluvium; 111CLVM, Holocene colluvium; 111FLDP, Holocene flood-plain deposits; 112ALVM, Pleistocene alluvium, older; 112GLCL, Pleistocene glacial deposits; 121MDCK, Pliocene Muddy Creek Formation; 122ALTA, Miocene ALTA Formation; 210GRNC, Cretaceous granitic rocks; 300CRBN, Paleozoic carbonate rocks.

Aquifer codes: A, artesian; U, unknown; W, water table.

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
1	N47 E30 15CDCD1	415800118370001	PINE FOREST FARMS	013	I	110VLFL	U	200.
2	N45 E28 10CAB 1	415000118440001	ADLER CREEK RANCH	013	S	110VLFL	U	48.
9	N43 E19 33BB 1	413630119520001		031	S	110VLFL	U	70.
21	N31 E19 26B 1	403200119490001	USBLM	031	S	110VLFL	U	111.
22	N30 E23 29B 1	402700119250001		031	U	110VLFL	U	109.
24	N35 E24 32DDC 2	405208119161502	USGS	027	U	110VLFL	A	66.
29	N43 E32 20DCDD1	413500118250001	C-2 CATTLE CO	013	S		U	55.
32	N42 E37 32AAAC1	412854117495001	E F RUNOW	013	I	110VLFL	U	250.
33A	N42 E37 04BDCA1	413300117494001	DONALD MORRIS	013	I	110VLFL	U	360.
33A	N44 E37 27B	412934117483001	ALBISU	013	I	110VLFL	U	550.
42	N37 E59 25BCBC1	410400115164001	MARBLE RANCH	007	H	110VLFL	W	14.
45	N33 E58 19ADDD1	404350115281001	H CONRAD	007	H	110VLFL	W	16.
45	N34 E57 24CDDD1	404822115300801	BALBOA	007	H	110VLFL	U	97.
46	N31 E56 16ADDA1	403400115400001		007	S	110VLFL	U	193.
48	N33 E56 08CAAD1	404521115395801	MOFAT	007	H	110VLFL	W	12.
54	N29 E48 03BDCB1	402450116324001	DEAN RANCH	011	S	110VLFL	A	53.
54	N29 E48 29CACC2	402100116352001	BEOWAWE FARMS	011	I	110VLFL	U	300.
55	N26 E45 28CBAC1	400540116550001	HENRY FILIPPINI	015	S	110VLFL	U	16.
56	N24 E43 35CC 1	395335117062401	STIENEN RANCH	015	I	110VLFL	U	202.
57	N25 E41 12BCC 1	400320117190101	USGS	015	U	110VLFL	W	60.
59	N30 E44 18ADBD1	402831117034201	COPPER CANYON MINING	015	I	110VLFL	U	264.
61	N32 E45 11DACC1	403920116520001	USGS	015	U	110VLFL	U	197.
69	N38 E39 09CCAB1	411056117354901	DWIGHT C VEDDER	013	S	110VLFL	U	44.
69	N38 E39 28CDDD1	410806117353501	W G LONG	013	I	110VLFL	U	256.
69	N41 E40 30AABB1	412421117303301	SHELTON SCHOOL	013	U	110VLFL	W	27.
70	N36 E40 30AACA1	405810117302801	DIAMOND S RANCH	013	U	110VLFL	U	101.
71	N33 E38 32BABB1	404138117441501	USBLM	027	S	110VLFL	W	54.
71	N35 E37 34AACC2	405130117480002		013	U	110VLFL	U	83.
72	N32 E33 33AAAA1	403620118153001	C & C CAMPBELL	027	I	110VLFL	U	288.
73A	N29 E33 33AAAC1	402000118160001	LOVELOCK MEADOWS	027	U	110VLFL	U	395.
76	N20 E25 18CCC 1	393539119133001	JOHN PICETTI	019	H	110VLFL	U	28.
80	N24 E23 36CBA 1	395422119210701	W J CERESOLA	031	U	110VLFL	U	73.
80	N25 E23 23CDBA1	400100119220001		031	U	110VLFL	W	12.
81	N24 E22 31CCC 2	395357119333401	USBIA	031	U	110VLFL	U	226.
81	N27 E21 09BDA 1	401352119380201	USGS	031	U	110VLFL	U	47.
81	N27 E21 16ABD 1	401245119374401	USGS	031	U	110VLFL	U	44.
81	N28 E21 33CCD 1	401443119381201	USGS	031	U	110VLFL	U	60.
83	N17 E21 06ADCA1	392212119394101	CARLSBURG DEVELOPMENT	029	U	122ALTA	U	290.

Depths, diameter, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Well diameter is rounded to nearest inch. Elevation is that of LSD, with reference to sea level.

Period of record: Interval shown spans period from earliest measurement to latest measurement, and may include intervals with no record.

Water levels: Levels above LSD are listed as negative values.

DIAMETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.		4380.	1968-	40.67	03/11/86	59.52	03/24/92	59.52	03/24/92
8.		4228.	1968-	3.49	03/11/86	13.76	03/22/77	8.35	03/24/92
6.		5200.	1968-	10.22	03/13/72	16.15	06/13/90	13.02	03/16/92
6.		4000.	1966-	37.91	09/15/66	55.31	07/14/88	53.46	03/17/92
6.		4013.	1966-	45.20	04/09/69	56.66	03/16/92	56.66	03/16/92
2.		4031.	1967-	-2.25	06/14/67	18.43	03/16/92	18.43	03/16/92
6.		4105.	1976-	21.07	04/24/84	29.13	03/18/80	28.21	03/24/92
16.	150.- 250.	4200.	1971-	46.06	04/10/85	78.11	04/29/71	62.81	03/24/92
16.		4235.	1973-	88.02	03/18/74	108.39	03/23/77	103.78	03/24/92
16.	175.- 545.	4280.	1972-	105.69	04/06/78	144.57	04/06/82	137.34	03/24/92
48.		5350.	1938-	.32	04/28/69	20.80	02/26/45	7.72	04/01/92
48.		5950.	1934-	.09	04/28/46	18.00	11/01/40	12.28	03/24/92
8.		5550.	1944-	-1.48	01/28/53	7.10	12/26/52	-0.57	03/24/92
6.		5650.	1964-	70.78	04/02/86	90.92	03/17/70	81.43	03/24/92
42.		5500.	1944-	4.30	06/28/58	11.48	09/12/60	7.24	03/24/92
8.		4740.	1973-	-1.50	04/12/88	.40	03/18/81	-0.74	03/27/92
14.		4810.	1958-	54.07	04/12/88	69.28	09/28/66	54.53	03/27/92
10.		5000.	1965-	4.47	05/06/85	8.48	03/27/92	8.48	03/27/92
12.		6000.	1961-	-1.83	03/26/85	3.98	03/17/92	3.98	03/17/92
2.	65.- 67.	4948.	1964-	38.83	04/15/70	58.54	08/05/64	55.25	03/17/92
12.		4609.	1947-	5.25	03/16/51	7.08	02/26/92	7.08	02/26/92
6.		4518.	1949-	4.08	07/10/52	10.88	10/04/61	10.16	02/27/92
10.	20.- 75.	4317.	1968-	8.10	11/08/71	33.58	03/23/92	33.58	03/23/92
16.		4317.	1968-	9.86	04/18/72	28.76	03/23/92	28.76	03/23/92
8.		4414.	1970-	.69	04/23/71	9.01	11/12/81	8.40	03/25/92
6.		5200.	1949-	20.17	09/01/58	46.10	03/15/64	40.27	03/03/92
6.		4431.	1939-	28.40	07/24/46	39.46	03/28/79	35.42	03/03/92
10.		4301.	1946-	17.68	05/16/46	29.00	03/28/79	26.50	04/16/92
14.		4150.	1954-	26.39	04/11/85	45.85	03/25/70	32.47	02/23/92
12.	100.- 395.	4300.	1968-	119.10	04/23/69	126.39	02/24/92	126.39	02/24/92
6.		4134.	1953-	1.96	07/07/55	11.43	03/16/92	11.43	03/16/92
6.		3845.	1969-	20.39	04/03/85	27.14	07/14/70	25.67	03/16/92
48.		3800.	1968-	2.47	04/18/73	4.40	03/22/88	4.36	03/16/92
8.		3988.	1970-	10.25	03/09/72	24.28	03/12/84	16.84	03/17/92
2.	45.- 47.	3845.	1967-	5.90	07/28/67	13.33	03/17/92	13.33	03/17/92
2.	42.- 44.	3838.	1967-	16.63	07/28/67	19.84	03/17/92	19.84	03/17/92
2.	58.- 60.	3865.	1967-	15.31	07/28/67	24.11	03/17/92	24.11	03/17/92
6.	60.- 290.	6355.	1977-	67.44	03/04/87	74.93	04/09/82	70.68	03/23/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
83	N18 E21 32ABCD1	392313119384201	JOHN CHOATE	029	H	122ALTA	U	300.
83	N18 E21 32CBBD1	392254119392001	MICHAEL DEVANY	029	H	122ALTA	U	180.
83	N18 E21 33BABC2	392320119375302	MERAK DEVELOPMENT	029	F		U	200.
84	N22 E20 25DDCA1	394422119404901	DON BROWN	031	H		U	160.
85	N20 E20 01CAAB1	393743119411501	HOMER HON	031	H		U	165.
85	N20 E20 03CDDC1	393720119432701	WASHOE COUNTY	031	U		U	200.
85	N20 E20 04BABD1	393804119443901	RAND SULLIVAN	031	H		U	200.
85	N20 E20 04CBAD1	393737119445201	LAWRENCE GRUBE	031	H		U	361.
85	N20 E20 04DACB1	393734119441101	ROBERT CAMPBELL	031	H		U	225.
85	N20 E20 04DBDB1	393735119441701	NORMAN PACE	031	H		U	300.
85	N20 E20 12DBC1	393643119410401	BARBARA D ANNA	031	H		U	150.
85	N20 E20 21AAAD1	393527119435701	WASHOE COUNTY	031	U		U	222.
85	N20 E20 21AADD1	393522119435701	WASHOE COUNTY	031	P		U	250.
85	N20 E20 21BCBC1	393515119435701	WASHOE COUNTY	031	U		U	222.
85	N20 E20 27CACD1	393405119433401	FREMONT BRIA	031	H		U	158.
85	N20 E21 18ADDB1	393548119395101	TUCKER	031	I		U	237.
85	N20 E21 18DADB2	393554119395001	TUCKER	031	I		U	265.
85	N21 E20 02AAAC1	394321119415101	MIKE OHAIR	031	H		U	425.
85	N21 E20 22ABCC1	394035119432901	WILLIAM PETERSON	031	H		U	220.
85	N21 E20 24BDCD1	394023119412001	RICHARD T DONOVAN	031	I		U	258.
85	N21 E20 34CDAC1	393813119425301	WASHOE COUNTY	031	U		U	197.
85	N21 E20 35ABBA1	393858119421301	SKY RANCH	031	P		U	799.

445

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.	265.- 295.	5980.	1973-	63.65	05/01/84	113.57	03/23/92	113.57	03/23/92
6.	160.- 180.	6242.	1976-	75.60	03/11/86	101.03	03/23/92	101.03	03/23/92
9.	80.- 200.	5785.	1980-	10.47	05/01/84	25.88	03/23/92	25.88	03/23/92
7.	120.- 160.	4645.	1990-	104.00	03/15/90	107.77	08/26/92	107.71 107.67 107.77 107.65	06/16/92 07/20/92 08/26/92 09/16/92
7.	115.- 155.	4495.	1988-	16.83	07/21/92	18.00	10/10/88	16.84 16.83 17.13 17.15	06/17/92 07/21/92 08/27/92 09/17/92
9.	120.- 190.	4516.	1990-	51.00	09/05/90	61.51	08/25/92	59.52 55.97 61.51 56.86	06/25/92 07/17/92 08/25/92 09/15/92
7.	180.- 200.	4700.	1987-	108.90	07/17/92	110.24	06/11/92	110.24 109.89 108.90 110.00 109.75	06/11/92 06/15/92 07/17/92 08/25/92 09/25/92
7.	321.- 361.	4730.	1986-	234.89	09/15/92	250.00	12/05/86	235.30 235.07 234.89	07/17/92 08/25/92 09/15/92
6.	205.- 225.	4681.	1981-	185.90	07/17/92	195.00	02/18/81	185.90	07/17/92
7.	260.- 300.	4677.	1984-	169.30	09/16/92	173.00	08/26/92	169.60 173.00 169.30	07/17/92 08/26/92 09/16/92
8.	70.- 130.	4487.	1992-	6.80	09/17/92	8.77	07/22/92	8.77 7.25 6.80	07/22/92 08/27/92 09/17/92
9.		4475.	1992-	20.69	07/17/92	23.01	09/15/92	20.69 22.49 23.01	07/17/92 08/28/92 09/15/92
9.	190.- 250.	4468.	1992-	9.95	07/17/92	12.13	09/15/92	9.95 11.60 12.13	07/17/92 08/25/92 09/15/92
8.		4453.	1983-	2.61	07/24/92	4.05	09/16/92	2.61 3.66 4.05	07/24/92 08/25/92 09/16/92
7.	118.- 138.	4430.	1991-	14.10	06/17/92	38.00	04/11/91	14.10 29.49 27.20 18.49	06/17/92 07/22/92 08/27/92 09/17/92
8.		4538.	1977-	25.00	08/14/77	46.11	02/26/91	43.70 43.29 43.09	02/20/92 03/05/92 04/16/92
8.		4530.	1980-	38.72	03/22/89	45.18	05/02/84	40.11 40.11	03/05/92 04/16/92
6.	395.- 425.	4832.	1989-	320.50	08/26/92	345.00	04/16/89	326.60 320.50 323.50	06/16/92 08/26/92 09/16/92
6.	184.- 214.	4602.	1980-	145.00	10/06/80	148.52	09/16/92	147.40 147.65 147.76 148.00 148.52	05/14/92 06/15/92 07/20/92 08/25/92 09/16/92
7.	218.- 258.	4614.	1987-	181.98	05/19/92	190.00	10/01/87	181.98 182.18 183.33 183.78	05/19/92 06/16/92 07/21/92 09/17/92
10.	58.- 288.	4534.	1979-	22.00	11/25/79	75.02	08/25/92	72.80 73.10 75.02 63.43	07/14/92 07/17/92 08/25/92 09/15/92
18.	200.- 794.	4518.	1989-	66.00	10/30/89	88.90	09/17/92	79.03 83.41 88.90	07/22/92 08/25/92 09/17/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
85	N21 E20 35ADAC1	393847119415101	SKY RANCH	031	P		U	180.
85	N21 E20 35CDCC1	393811119423301	WASHOE COUNTY	031	H		U	230.
85	N21 E20 35DCAB1	393819119420501	PV FARMS	031	H		U	193.
85	N21 E20 36ADAA1	393849119404001	WILL BROWN	031	H		U	318.
85	N21 E21 20BBCB1	394040119392801	VINCENT CANCELLA	031	H		U	450.
85	N21 E21 31BBAA1	393903119402001	JERRY CASALE	031	H		U	255.
85	N21 E21 31DDCD1	393812119394001	LONNY COLBY	031	H		U	338.
87	N20 E20 34DABB1	393322119430801	WINNERS CORNER	031	U		U	20.
89	N16 E19 10BBDA1	391617119502101	FLYING ME RANCH	031	I	110VLFL	U	94.
89	N16 E19 26DBDC1	391308119484801	KENNETH PIERCE	031	H		U	138.
89	N16 E19 35ACD 1	391233119484501	PETE KELLEY	031	H		U	76.
89	N16 E19 35ACD 2	391233119484502	PETE KELLEY	031	I		U	6.
89	N16 E19 35ADC 1	391232119483401	EVANS	031	P		U	116.
90	N12 E18 03ABA 1	385651119581701		017	P	112GLCL	U	125.
90	N13 E18 10BDBD1	390022119565201		005	U	111ALVM	U	31.
90	N13 E18 22BAA 1	385857119564201		005	H	210GRNC	U	200.
90	N13 E18 22CDD 1	385808119564201		005	U	111ALVM	U	8.
90	N13 E18 22DCA 1	385816119563001		005	U	112ALVM	U	24.
90	N13 E18 27BDA 1	385742119565701		005	U	112ALVM	U	23.
90	N14 E18 10ABD 1	390541119562501		005	U	111CLVM	U	28.
90	N14 E18 10ADA 1	390539119561001		005	U	111CLVM	U	27.
90	N14 E18 10ADB 1	390542119562101		005	U	111CLVM	U	31.
90	N16 E18 10DDC 1	391533119563001		031	U	111CLVM	U	46.
90	N16 E18 15AAB 1	391525119563101		031	U	111ALVM	U	39.
90	N16 E18 15DBD 1	391456119563001		031	U	111ALVM	U	14.
92A	N20 E18 02DDDD1	393718119550601	ANDERSON FIRE DEPT	031	H		U	170.
92A	N21 E18 23AADD1	394034119554301	JIM SWEGER	031	U		U	570.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

447

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
22.	70.- 170.	4522.	1977-	50.89	04/14/82	59.47	03/18/81	55.99 56.31 56.27	07/24/92 08/27/92 09/16/92
14.	120.- 220.	4495.	1988-	20.00	11/14/88	24.68	09/16/92	22.08 23.53 24.68	07/21/92 08/26/92 09/16/92
22.	70.- 193.	4494.	1977-	28.29	11/18/80	38.90	06/25/92	38.90 35.85 38.75 36.91	06/25/92 07/22/92 08/26/92 09/16/92
10.	278.- 298.	4606.	1989-	143.00	05/09/89	152.46	07/22/92	152.46 144.00 146.20	07/22/92 08/27/92 09/17/92
7.	200.- 440.	4938.	1985-	149.11	06/16/92	155.00	08/27/85	149.11 151.60 150.41 150.35	06/16/92 07/20/92 08/26/92 09/16/92
7.	234.- 255.	4641.	1989-	157.10	07/22/92	170.00	05/23/89	157.10 157.30 157.10	07/22/92 08/27/92 09/17/92
10.	298.- 318.	4741.	1989-	281.57	06/16/92	300.00	12/05/89	281.57 281.63 282.20 282.00	06/16/92 07/21/92 08/26/92 09/13/92
4.	10.- 20.	4410.	1991-	10.80	07/14/92	12.00	06/13/91	10.80 10.85 10.88 10.92	07/14/92 07/22/92 08/27/92 09/17/92
12.		5065.	1968-	5.03	03/11/86	7.40	03/23/92	7.40	03/23/92
8.	73.- 138.	5120.	1960-	6.79	03/11/86	22.00	08/07/81	19.29	03/23/92
8.	52.- 72.	5220.	1960-	2.00	05/25/60	41.70	08/07/87	14.43 7.86 6.52 18.91	10/04/91 01/03/92 04/02/92 07/02/92
		5240.	1976-	1.00	03/21/86	4.25	09/05/91	2.90 1.90 1.66 2.75	10/04/91 01/03/92 04/02/92 07/02/92
12.	50.- 116.	5250.	1975-	17.10	03/21/86	44.71	11/05/90	38.57 35.33 32.76	10/04/91 01/03/92 04/02/92
12.		6260.	1957-	30.00	09/28/57	33.27	03/18/92	33.27	03/18/92
2.		6240.	1987-	15.71	08/27/87	19.59	06/03/92	19.59	06/03/92
6.		6275.	1975-	14.63	04/09/86	31.99	04/02/91	29.61	03/24/92
1.		6235.	1987-	1.55	07/07/87	1.89	05/07/92	1.89	05/07/92
2.		6260.	1987-	13.73	06/28/90	16.67	03/04/88	15.77	05/07/92
2.		6245.	1987-	13.08	07/23/91	16.17	03/04/88	14.16	05/07/92
2.		6235.	1987-	16.12	08/20/87	20.74	02/27/91	20.61	05/04/92
2.		6270.	1987-	9.55	04/06/89	12.90	11/13/90	11.11	05/04/92
2.		6240.	1987-	19.19	08/06/87	22.51	05/04/92	22.51	05/04/92
2.		6625.	1992-	39.78	06/22/92	39.78	06/22/92	39.78	06/22/92
2.		6550.	1992-	22.57	06/22/92	22.57	06/22/92	22.57	06/22/92
2.		6360.	1992-	13.84	06/22/92	13.84	06/22/92	13.84	06/22/92
7.	100.- 170.	5222.	1963-	19.16	03/10/83	44.08	06/23/81	39.59 40.97 38.09 42.78	10/23/91 01/07/92 04/07/92 07/01/92
10.	280.- 570.	5130.	1972-	80.00	05/02/72	177.09	10/23/91	177.09 168.40 170.13 174.79	10/23/91 01/07/92 04/07/92 07/01/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
92A N21 E18 36ADDD1	393839119544101	USGS	031	U		U	150.
92A N21 E19 18BCBA1	394120119550901	LEARENO	031	H		U	810.
92A N21 E19 20BDCD1	394022119541201	USGS	031	U		U	65.
92A N21 E19 20DBDA1	394013119521001	USGS	031	U		U	87.
92A N21 E19 30CACCC1	393916119543701	USGS	031	U		U	22.
92B N20 E19 05CDAD2	393725119522402	J CAVANAUGH	031	U		U	
92B N20 E19 05DAAD1	393737119514801		031	U		U	
92B N20 E19 10BCAD1	393700119501101		031	C		U	
92B N20 E19 11BCAA1	393704119491801	TRIGG WARD	031	H		U	
92B N21 E19 15BACD1	394126119502101		031	U		U	
92B N21 E19 22DBAA1	394017119500201	USGS	031	U		U	150.
92B N21 E19 26CCDB1	393907119493101	USGS	031	U		U	62.
92B N21 E19 28CBCC1	393921119515001	USGS	031	U		U	53.
92B N21 E19 29DACB1	393920119520701	USGS	031	U		U	84.
103 N17 E22 32CADA1	391733119321001	GERALDINE SMITH	019	U	110VLFL	U	101.
103 N17 E23 01BDBD1	392142119210901	STAGECOACH UTILITIES	019	P		U	252.
103 N17 E23 01DDBA1	392129119205301	STAGECOACH UTILITIES	019	U		U	276.
103 N17 E23 02BDCC1	392137119221301	STAGECOACH UTILITIES	019	P		U	300.
103 N17 E23 02CDCC1	392143119222401	USGS	019	U	110VLFL	U	86.
103 N17 E23 04DDCC1	392141119240601	DUTCH HUGHES	019	U	110VLFL	U	339.
103 N17 E23 07DDDD1	392047119260501	UTAH MINE & CONSTRUCTION	019	U	110VLFL	U	386.
103 N17 E23 09CCDB1	392050119244701	USGS	019	U	110VLFL	U	82.
103 N17 E23 09DAAA1	392110119235001	USGS	019	U	110VLFL	U	84.
103 N17 E23 10ABCD1	392126119230901	USGS	019	U	110VLFL	U	88.
103 N17 E23 10BABD1	392132119232501	TERRY WEATHERMAN	019	I	110VLFL	U	300.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

449

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
1.	148.- 150.	4968.	1971-	-1.26	10/23/91	25.00	10/04/71	-1.26 2.90 3.90	10/23/91 04/07/92 07/01/92
12.		5041.	1971-	82.32	03/14/72	111.44	10/12/90	106.53 105.39 102.37 110.29	10/23/91 01/07/92 04/07/92 07/01/92
2.	65.- 67.	5025.	1971-	50.69	01/07/88	59.64	06/27/80	53.38 52.75 52.80 52.88	10/23/91 01/07/92 04/07/92 07/01/92
2.	85.- 87.	5040.	1971-	53.16	01/07/88	67.54	10/06/80	56.29 53.43 56.54 56.58	10/23/91 01/07/92 04/07/92 07/01/92
2.	20.- 22.	4970.	1971-	1.75	04/01/86	11.31	02/12/80	10.47 7.95 10.32 10.69	10/23/91 01/07/92 04/07/92 07/01/92
8.		5060.	1983-	8.08	04/01/86	33.02	07/01/92	27.72 25.83 26.42 33.02	10/23/91 01/07/92 04/07/92 07/01/92
8.		5020.	1966-	27.11	04/01/86	57.10	06/14/77	49.14 47.54 50.40	10/23/91 01/07/92 07/01/92
6.		5070.	1971-	35.00	11/05/71	107.95	04/07/88	97.56 86.95 94.60	10/23/91 01/07/92 04/07/92
		5125.	1982-	90.07	04/06/84	116.62	10/23/91	116.62 108.29 105.07	10/23/91 01/07/92 04/07/92
6.		5025.	1971-	133.28	06/13/72	192.44	04/07/92	186.58 192.09 192.44 177.03	10/23/91 01/07/92 04/07/92 07/01/92
2.	148.- 150.	4919.	1971-	17.36	04/20/72	49.69	07/01/92	48.66 46.05 47.30 49.69	10/23/91 01/07/92 04/07/92 07/01/92
2.	60.- 62.	4919.	1971-	12.80	03/16/72	44.28	10/23/91	44.28 41.05 40.47 43.78	10/23/91 01/07/92 04/07/92 07/01/92
1.	51.- 53.	4930.	1971-	9.91	04/01/86	19.05	10/23/91	19.05 18.09 17.17 18.24	10/23/91 01/07/92 04/07/92 07/01/92
2.	82.- 84.	5035.	1971-	37.47	01/07/92	53.11	06/27/80	50.50 37.47 49.23 50.40	10/23/91 01/07/92 04/07/92 07/01/92
8.		4347.	1970-	53.58	06/03/70	57.60	09/22/77	56.77	03/23/92
8.		4378.	1970-	145.70	06/03/70	184.23	03/11/87	174.07	03/24/92
8.	240.- 276.	4455.	1972-	224.19	07/14/72	233.68	03/24/92	233.68	03/24/92
10.	196.- 296.	4324.	1971-	79.05	07/01/72	113.22	03/24/92	113.22	03/24/92
2.	83.- 86.	4286.	1977-	50.00	07/20/77	67.17	09/11/89	65.55	03/24/92
12.	287.- 395.	4314.	1976-	75.00	02/02/76	96.06	12/20/79	93.85	03/24/92
12.	12.-	4324.	1970-	73.98	08/05/70	89.02	09/11/89	88.56	03/23/92
2.	52.- 82.	4271.	1977-	25.76	09/21/77	42.02	03/24/92	42.02	03/24/92
2.		4282.	1977-	53.63	03/02/78	60.24	08/17/79	58.01	03/24/92
2.		4277.	1977-	48.51	04/11/78	58.09	03/11/86	56.29	03/24/92
12.	234.- 300.	4286.	1969-	48.00	05/12/69	68.15	02/27/91	63.91	03/24/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
103	N17 E23 11DBAB1	392112119215801	MCBEAN	019	H		U	87.
103	N17 E23 18DDDD1	391954119260601	UTAH MINE & CONSTRUCTION	019	U	110VLFL	U	822.
103	N17 E23 19ACBC1	391933119263301	NORRIS LEEGARD	019	U		U	240.
103	N17 E23 19ACBC2	391935119263401	NORRIS LEEGARD	019	U		U	247.
103	N17 E23 26CCCC1	391812119224001	KATHLEEN HOLMAN	019	H		U	176.
103	N17 E23 27ABAC1	391857119230701	STEELE HOLMAN	019	H	110VLFL	U	220.
103	N18 E23 35CBDD1	392246119222901	CARL MCHENRY	019	H		U	215.
103	N18 E23 35DCDC1	392235119215601	STAGECOACH UTILITIES	019	H		U	268.
104	N15 E20 04DBDD1	391126119441901	NEVADA-DWR	510	U		U	89.
104	N15 E20 04DBDD2	391126119441902	USGS	510	U		U	33.
104	N15 E20 05BBCA1	391155119460401	NEVADA-DWR	510	U		U	102.
104	N15 E20 05BBCA2	391155119460402	USGS	510	U		U	62.
104	N15 E20 07BBAB1	391110119470501	NEVADA-DWR	510	U		U	150.
104	N15 E20 15BDBA1	391004119433301	NEVADA-DWR	510	U		U	105.
104	N15 E20 16BDBB1	391004119444901	NEVADA-DWR	510	U		U	105.
104	N15 E20 17CACD1	390940119454701	NV DEPT OF BLDGS & GRNDS	510	P		U	595.
104	N15 E20 17CBBA1	390954119460401	NEVADA-DWR	510	U		U	102.
104	N15 E20 18BDDA1	390958119464301	NEVADA-DWR	510	U		U	102.
104	N15 E20 20CCBB1	391235119521501	PHILIP HARPER	510	U	110VLFL	W	38.
104	N15 E20 29DAAB1	390807119450901	NEVADA-DWR	510	U		U	105.
104	N15 E20 32BDAA1	390728119453801	NEVADA-DWR	510	U		U	105.
104	N16 E20 33CCDD1	391205119444901	NEVADA-DWR	510	U		U	118.
107	N10 E24 08CBCA1	384426119194601	FRED FULSTONE, JR.	019	I		U	504.
107	N10 E24 09BA 1	384459119174401	LEINASSAR	019	I		U	652.
107	N10 E24 16ACCC1	384350119172301	JOSEPH ACCIARI	019	I		U	486.
107	N10 E24 18BACD1	384356119203501	FRED FULSTONE, JR.	019	I		U	536.
107	N11 E23 01CCCC1	385016119214801	JAY ROOKER	019	U		U	128.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

451

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		4288.	1981-	59.54	04/17/81	64.89	03/24/92	64.89	03/24/92
17.	137.- 265.	4286.	1970-	34.84	08/05/70	48.47	03/23/92	48.47	03/23/92
10.	175.- 255.	4279.	1980-	30.76	05/02/80	35.37	03/23/92	35.37	03/23/92
11.	160.- 247.	4279.	1980-	33.44	12/12/80	36.77	03/23/92	36.77	03/23/92
7.	156.- 176.	4298.	1978-	56.61	02/25/91	64.47	12/20/79	64.47	03/24/92
9.	180.- 220.	4286.	1970-	51.14	06/05/70	58.45	03/31/90	56.11	03/24/92
8.	191.- 211.	4401.	1977-	160.00	09/19/77	188.61	03/24/92	188.61	03/24/92
13.	218.- 263.	4385.	1973-	162.58	03/11/87	171.40	03/24/89	167.34	03/24/92
2.	68.- 88.	4682.	1975-	17.10	07/14/86	24.87	01/06/75	19.74 19.75 19.95 19.77	10/04/91 01/03/92 04/02/92 07/02/92
2.	30.- 32.	4682.	1977-	16.90	07/14/86	30.01	07/25/77	19.98 20.07 20.34 20.12	10/04/91 01/03/92 04/02/92 07/02/92
2.	82.- 102.	4737.	1975-	12.38	02/12/75	51.37	06/24/81	37.03 29.72 29.00 39.30	10/04/91 01/03/92 04/02/92 07/02/92
2.		4737.	1977-	24.97	02/17/78	47.20	10/06/92	42.38 33.89 32.19 45.44	10/04/91 01/03/92 04/02/92 07/02/92
2.		4800.	1975-	44.74	04/21/75	100.54	07/02/92	96.78 93.77 91.67 100.54	10/04/91 01/03/92 04/02/92 07/02/92
2.	85.- 105.	4620.	1975-	6.36	03/21/86	13.99	05/16/75	9.30 8.80 8.73 9.28	10/04/91 01/03/92 04/02/92 07/02/92
2.	82.- 102.	4641.	1975-	.76	03/23/83	17.41	10/09/90	13.30 7.25 10.46 13.69	10/05/91 01/03/92 04/02/92 07/02/92
18.		4650.	1946-	1.84	03/13/52	23.80	09/17/64	12.07	03/23/92
2.	82.- 102.	4680.	1961-	16.90	04/11/83	27.45	07/24/79	24.32 22.51 23.08 24.18	10/04/91 01/03/92 05/18/92 07/02/92
2.	82.- 102.	4739.	1975-	2.34	01/06/75	26.42	07/02/92	24.22 24.06 24.10 26.42	10/04/91 01/03/92 04/02/92 07/02/92
48.		4685.	1962-	19.81	03/26/86	32.81	03/23/92	32.81	03/23/92
2.	80.- 100.	4698.	1975-	27.70	03/12/75	56.37	10/06/92	53.13 52.09 49.28 51.93	10/04/91 01/03/92 04/02/92 07/02/92
2.	82.- 102.	4720.	1975-	32.03	02/12/75	47.87	09/05/91	46.18 43.92 43.97 47.74	10/04/91 01/03/92 04/02/92 07/02/92
2.	94.- 118.	4732.	1975-	42.10	03/21/86	49.24	09/17/81	43.96 46.61 45.96	01/03/92 04/02/92 07/02/92
16.	100.- 504.	4950.	1973-	55.47	04/04/84	108.89	02/24/92	108.89	02/24/92
18.	78.- 574.	4960.	1978-	103.55	11/20/81	142.67	03/23/92	142.67	03/23/92
14.	196.- 486.	5000.	1972-	101.40	04/02/87	156.03	02/24/92	156.03	02/24/92
16.	150.- 490.	4980.	1976-	107.15	04/02/87	187.34	07/27/76	171.00	02/24/92
16.	198.- 536.	5000.	1974-	79.00	11/22/74	218.60	08/02/77	198.93	02/24/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
107	N11 E23 01CCCC1	385016119214801	JAY ROOKER	019	U		U	128.
107	N11 E23 02ADDD1	385040119212301	DR MAURICE BLISS	019	I		U	537.
107	N11 E23 02CCBB1	385030119220501	AUGUST BUNKOWSKI	019	I		U	546.
107	N11 E23 03CBBC1	385035119240001	NORMAN ANNETTE	019	I		U	580.
107	N11 E23 12CBBB1	384949119204901	WILLIAM G WALKER	019	U		U	585.
107	N11 E23 15CBAA1	384855119234801	MARVIN BERRINGTON	019	I		U	510.
107	N11 E23 23BCBB1	384830119220501	SAM STRIEBE	019	I		U	420.
107	N11 E24 32CBAD1	384619119192301	RALPH NUTTI	019	U		U	140.
107	N11 E24 32DC 1	384610119190001	A NUTTI	019	I	110VLFL	U	390.
107	N12 E23 24CB 1	385314119205901	THREE DOUBLE BAR RANCH	019	U	110VLFL	U	287.
107	N12 E23 34ACCC1	385834119322301	LESTER FARRIS	019	I		U	400.
107	N12 E23 34BACB1	385205119225401	THREE 2-BAR RANCH	019	I		U	423.
107	N12 E23 36BDBD1	385141119212701	SMITH	019	I		U	252.
107	N12 E23 36DCDC1	385109119210701	SMITH	019	I		U	495.
107	N12 E24 31BACB1	385201119193601	WILLIAM G WALKER	019	I		U	540.
107	N12 E24 31DBBA1	385130119192001	DALE HUSBOE	019	I		U	587.
108	N11 E25 01ABDD1	385102119075301	HAVSIS RANCH	019	I		U	400.
108	N11 E25 10DBCD1	384942119100801	LOUIS G SCAETENA	019	I		U	597.
108	N12 E25 11CACD1	385456119091901	THOMAS WILSON	019	I		U	245.
108	N12 E25 12CDAA1	385447119075901	ALBERT MACKENZIE	019	H		U	102.
108	N12 E25 15DB 1	385410119100401	DAVE MENESINI	019	I		U	310.
108	N12 E25 21ACA 1	385332119110601	KAY BUNN	019	H		U	100.
108	N12 E25 23DCC 1	385255119090501	NAT LAMORRI	019	I		U	325.
108	N12 E25 27DAAA1	385225119094801	CHARLES HOWARD	019	I		U	
108	N12 E25 35DC 1	385204119075201	JOHN C BAKER	019	I		U	253.
108	N13 E25 01DBDD1	390100119075201	BILL BARTELS	019	I		U	505.
108	N13 E25 11ACBD2	390026119090401	WALKER RIVER IRR DISTRICT	019	I		U	435.
108	N13 E25 13CCCD1	385904119083001	LUIGI LOMMORI	019	I		U	306.
108	N13 E25 13DDDD1	385903119073001	JOHN CONNELLY	019	I		U	280.
108	N13 E25 23DDDC1	385809119084401	WILBUR SEYDEN	019	I		U	308.
108	N13 E25 26DDCC1	385720119085001	FRAZIER	019	I		U	160.
108	N13 E25 36DCCA1	385633119074201	R H HOLBROOK	019	I		U	255.
108	N13 E26 02BBCC1	390127119030001	CARROL HASKINS	019	I		U	203.
108	N13 E26 08CACA1	390011119060201	BARBARA DILLARD	019	I		U	130.
108	N13 E26 09DBCC1	390006119043901	H H THURSTON	019	I		U	166.
108	N13 E26 31DDCD1	385628119063301	TIBBELS	019	I		U	172.
108	N14 E25 03DDDC1	390558119094701	VINCE DYE	019	I		U	85.
108	N14 E25 04DACC1	390611119110301	LARRY MASINI	019	I		U	451.
108	N14 E25 08ADDC1	390531119115901	JIM CHICO	019	I		U	523.
108	N14 E25 08CCCC1	390501119130001	LARRY MASINI	019	I		U	200.
108	N14 E25 10CCDA1	390509119103401	LARRY MASINI	019	I		U	460.
108	N14 E25 11BDAC1	390538119091301	HERB PENROSE	019	S		U	60.
108	N14 E25 15CDCC1	390416119102901	S BARBER	019	I		U	286.
108	N14 E25 18DCBB1	390415119132801		019	U		U	73.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

453

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.	108.- 128.	4790.	1976-	15.56	11/03/83	28.94	02/24/92	28.94	02/24/92
14.	147.- 537.	4780.	1969-	10.00	09/09/69	47.20	02/24/92	47.20	02/24/92
14.	138.- 546.	4800.	1970-	20.00	07/03/70	65.75	02/24/92	65.75	02/24/92
16.	165.- 580.	4881.	1976-	100.96	04/04/84	186.25	08/05/77	164.66	02/24/92
14.	230.- 585.	4790.	1972-	15.62	04/04/84	53.64	02/24/92	53.64	02/24/92
16.	130.- 510.	4820.	1973-	20.03	11/03/83	115.70	06/02/76	52.92	02/24/92
14.	100.- 420.	4800.	1961-	23.81	11/03/83	85.00	05/11/61	54.15	02/24/92
3.		4855.	1980-	17.80	03/12/85	68.85	03/23/92	68.85	03/23/92
16.		4865.	1948-	23.62	03/03/48	90.25	03/23/92	90.25	03/23/92
16.		4745.	1972-	4.50	06/23/72	13.19	03/23/92	13.19	03/23/92
14.	100.- 400.	4795.	1960-	18.00	05/15/60	52.78	02/24/92	52.78	02/24/92
16.	100.- 423.	4795.	1961-	7.00	04/22/82	53.49	02/24/92	53.49	02/24/92
15.	94.- 252.	4766.	1956-	3.00	05/01/56	39.43	02/24/92	39.43	02/24/92
12.	147.- 495.	4782.	1960-	20.00	09/25/60	62.03	02/24/92	62.03	02/24/92
14.	270.- 534.	4790.	1968-	40.00	08/10/68	83.90	02/24/92	83.90	02/24/92
14.	197.- 587.	4810.	1971-	61.03	03/29/73	93.47	02/24/92	93.47	02/24/92
16.	156.- 382.	4538.	1960-	48.07	11/06/84	78.86	02/26/92	78.86	02/26/92
16.	183.- 575.	4568.	1961-	68.87	10/26/65	94.25	02/26/92	94.25	02/26/92
14.	100.- 245.	4436.	1961-	5.86	10/27/65	42.00	04/01/61	22.65	02/26/92
6.		4470.	1978-	18.00	06/28/78	70.09	02/26/92	70.09	02/26/92
14.	42.- 310.	4440.	1965-	9.77	11/09/65	20.92	02/26/92	20.92	02/26/92
6.		4460.	1965-	12.92	03/01/91	32.00	03/19/90	26.33	02/26/92
16.	104.- 325.	4460.	1965-	7.05	10/20/65	17.84	02/26/92	17.84	02/26/92
		4458.	1977-	11.74	08/22/79	23.30	08/16/77	21.88	02/26/92
16.	110.- 242.	4500.	1952-	8.00	01/29/52	34.79	02/26/92	34.79	02/26/92
16.	20.- 505.	4364.	1977-	6.26	03/10/80	13.10	02/25/92	13.10	02/25/92
18.	120.- 432.	4371.	1972-	7.08	01/20/83	13.52	02/26/92	13.52	02/26/92
16.	103.- 306.	4380.	1961-	1.54	10/14/80	16.80	02/26/92	16.80	02/26/92
16.	115.- 280.	4370.	1977-	5.40	03/24/81	26.00	03/20/90	18.85	02/26/92
14.	100.- 308.	4394.	1963-	5.62	10/28/65	21.46	02/26/92	21.46	02/26/92
14.	102.-	4405.	1981-	6.22	11/06/84	27.72	02/26/92	27.72	02/26/92
14.	40.- 255.	4434.	1965-	10.22	10/28/65	56.39	02/26/92	56.39	02/26/92
12.	64.- 203.	4408.	1961-	65.00	11/04/61	84.42	02/25/92	84.42	02/25/92
13.	50.- 120.	4350.	1973-	8.00	03/01/73	26.70	10/08/91	26.70 20.70	10/08/91 02/25/92
12.	60.- 160.	4380.	1956-	43.00	12/15/56	65.35	10/08/91	65.35 59.65	10/08/91 02/25/92
13.	90.- 172.	4460.	1960-	37.00	08/04/60	94.00	03/08/79	90.87	02/26/92
16.	91.- 258.	4323.	1968-	7.35	01/20/83	24.26	04/06/87	16.53	02/25/92
16.	97.- 451.	4320.	1981-	4.98	02/01/83	13.69	02/25/92	13.69	02/25/92
16.	89.- 523.	4320.	1981-	6.48	04/02/84	17.10	02/25/92	17.10	02/25/92
		4323.	1983-	6.46	11/07/84	23.00	02/25/92	23.00	02/25/92
16.	448.- 460.	4332.	1974-	8.76	11/07/84	18.65	02/25/92	18.65	02/25/92
6.		4330.	1965-	6.02	10/27/65	18.52	02/25/92	18.52	02/25/92
14.	96.- 286.	4325.	1977-	8.70	10/14/80	18.30	11/29/77	17.98	02/25/92
10.		4345.	1965-	19.70	10/27/65	41.84	02/25/92	41.84	02/25/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
108 N14 E25 27ACCD1	390225119100801	TWAMBLEY-POLI RANCH	019	I		U	320.
108 N14 E25 29DCBC1	390233119122401	C J SIMMONS	019	H		U	150.
108 N14 E25 34CB 1	390154119104001	ANTONE FARIAS	019	I		U	358.
108 N14 E26 03DCBC1	390606119032901	GENE BINGHAM	019	I		U	160.
108 N14 E26 03DCDD1	390601119031701	GENE BINGHAM	019	I		U	160.
108 N14 E26 15ADBB1	390436119030701	ARTHUR BURGESS	019	I		U	158.
108 N14 E26 26ADCC1	390255119021101	GLENN RICHARDSON	019	I		U	157.
108 N14 E26 31DCCC1	390137119065401	JOHN RITTER	019	I		U	239.
108 N14 E26 31DCCC2	390137119065402	JOHN RITTER	019	I		U	400.
108 N14 E26 32ADCA1	390204119052801	LANDOLT	019	I		U	308.
108 N14 E26 32BCCC1	390201119062001	O D GABLE	019	I		U	120.
108 N14 E26 32BCCC2	390201119062002	O D GABLE	019	I		U	249.
108 N14 E26 32BDDD1	390203119055101	JOSEPH MANHA	019	S		U	104.
108 N15 E25 32AADD1	390727119115301	ALFRED PALMER	019	I		U	428.
108 N15 E25 34ACDD1	390715119095901	LARRY MASINI	019	I		U	370.
110C N06 E31 33BAB 1	382031118315901	SWEETWATER RANCH CO	021	U		U	86.
110C N06 E31 33BAB 2	382033118315501	SWEETWATER RANCH CO	021	U		U	126.
110C N08 E30 03DA 1	383440118365001	U S ARMY AMMUNITION	021	N	110VLFL	U	850.
110C N08 E30 04AAA 1	383525118375101	USGS	021	U	110VLFL	U	62.
110C N08 E30 18AAD 1	383310118401001	U S ARMY AMMUNITION	021	N	110VLFL	U	345.
110C N08 E30 21DDB 1	383150118380001	U S ARMY AMMUNITION	021	N	110VLFL	U	394.
110C N08 E30 26DDA 1	383100118355001	U S ARMY AMMUNITION	021	N	110VLFL	U	423.
110C N08 E31 29CDC 1	383100118330001	U S ARMY AMMUNITION	021	N	110VLFL	U	452.
110C N09 E30 29DDD 1	383624118385801	USGS	021	U	110VLFL	W	18.
110C N09 E30 33CAA 1	383550118382201	USGS	021	U	110VLFL	W	41.
117 S01 E35 28A 1	374950118051001	REX CLARK	009	U	110VLFL	U	624.
118 N03 E36 02BCB 1	380854117565601		009	U	110VLFL	U	129.
122 N11 E36 18DB 1	384850117581001		023	U	110VLFL	U	87.
124 N16 E33 02DC 1	391620118143001	C B STARK	001	U	110VLFL	U	435.
125 N17 E34 36CCCA1	390234118070701	STATE OF NEVADA	001	U		U	288.
127 N17 E35 36ADAA1	391749117585101	ANGUS DANGBERG	001	U	110VLFL	U	502.
128 N18 E34 28CCD 1	392323118095001	NEVADA PAVING INC	001	U	110VLFL	U	475.
128 N21 E34 27CD 1	393920118084001	GREGORY HOMESTEAD	001	U	110VLFL	U	112.
128 N21 E35 31D 1	393840118050001	USBLM	001	S	110VLFL	U	45.
129 N30 E35 27BBAA2	402640118015002	BERGENDAHL COND CO	027	U	110VLFL	U	208.
131 N30 E42 24CCAD1	402710117124001	USBLM	015	S	110VLFL	U	54.
133 N19 E37 28BCC 1	392903117495001	CHERRY CREEK RANCH	001	U	110VLFL	U	183.
134 N17 E39 34DBBD1	391649117344701	SAGUARO RANCH	015	S		U	19.
134 N17 E40 08CBAB1	392100117310001	SMITH CREEK RANCH	015	S	110VLFL	W	55.
134 N17 E40 34ACAC1	391754117271401	BROWN	015	S		U	49.
134 N18 E40 33DBCC1	392248117290701	USGS	015	U	110VLFL	U	42.
138 N21 E46 09D 1	394200116480001	GRASS VALLEY RANCH	015	H	110VLFL	W	172.
139 N21 E49 16C 1	394059116282901	FRED ETCHEGARAY	011	S	110VLFL	U	50.
142 S01 E42 10AAA 2	375300117150002	ESMERALDA COUNTY	009	S		U	400.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

455

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.	91.- 320.	4351.	1960-	8.90	03/08/77	15.99	02/25/92	15.99	02/25/92
10.	110.- 150.	4390.	1960-	45.00	12/06/60	55.94	02/25/92	55.94	02/25/92
16.	103.- 358.	4360.	1961-	10.00	03/30/61	21.30	02/25/92	21.30	02/25/92
12.	87.- 123.	4330.	1959-	1.80	04/02/82	7.80	11/29/77	7.06	02/26/92
12.	87.- 123.	4333.	1983-	4.83	04/02/84	10.15	02/26/92	10.15	02/26/92
12.	58.- 158.	4328.	1961-	2.48	03/16/66	11.68	02/26/92	11.68	02/26/92
12.	80.- 157.	4400.	1959-	75.00	08/10/59	87.30	02/26/92	87.30	02/26/92
16.	87.- 239.	4349.	1977-	6.34	11/07/84	11.99	02/25/92	11.99	02/25/92
16.	120.- 400.	4342.	1981-	7.44	01/23/83	17.00	10/31/81	13.73	02/25/92
14.	100.- 308.	4350.	1961-	5.07	10/28/65	15.79	02/27/91	15.48	02/25/92
12.	40.- 120.	4345.	1960-	4.00	07/03/60	13.25	11/29/77	10.93	02/25/92
14.	47.- 247.	4345.	1977-	5.31	01/19/83	21.00	08/01/77	11.33	02/25/92
6.	94.- 103.	4350.	1949-	4.00	07/16/49	13.89	02/25/92	13.89	02/25/92
16.	114.- 428.	4304.	1981-	1.38	04/02/84	7.67	02/25/92	7.67	02/25/92
16.	123.- 370.	4310.	1976-	1.71	04/02/84	10.40	11/29/77	9.08	02/25/92
		5566.	1948-	34.79	05/11/48	67.78	05/01/90	53.73	03/23/92
10.	32.- 132.	5566.	1966-	36.43	02/15/66	68.88	03/23/92	68.88	03/23/92
18.	441.- 696.	4125.	1954-	33.30	03/19/86	117.86	09/27/65	58.92	03/24/92
2.	60.- 62.	4056.	1968-	31.69	03/18/68	37.12	03/24/92	37.12	03/24/92
18.	328.- 345.	4140.	1952-	95.10	11/21/52	110.32	03/24/92	110.32	03/24/92
18.	336.- 350.	4261.	1952-	199.90	11/21/52	232.69	04/23/73	214.16	03/24/92
18.	276.- 408.	4341.	1952-	245.00	11/21/52	280.23	04/23/73	260.60	03/24/92
18.	264.- 436.	4372.	1952-	242.60	11/21/52	264.47	03/19/86	251.22	03/24/92
2.	16.- 18.	4010.	1968-	8.54	04/23/73	10.73	03/24/92	10.73	03/24/92
2.	39.- 41.	4039.	1968-	18.75	03/18/68	23.44	03/24/92	23.44	03/24/92
16.	150.- 600.	4900.	1948-	25.45	01/21/48	45.56	04/13/89	43.50	03/20/92
16.		4580.	1968-	41.23	04/14/78	42.73	03/01/72	41.68	03/23/92
10.		4570.	1961-	36.68	12/13/61	40.08	05/03/83	38.58	03/23/92
8.		4160.	1955-	216.68	01/13/55	224.94	03/23/64	219.09	03/16/92
8.		4388.	1962-	256.47	03/16/92	266.16	07/10/62	256.47	03/16/92
8.		5250.	1950-	27.00	02/01/50	110.78	03/16/92	110.78	03/16/92
9.	265.- 405.	4100.	1976-	206.91	03/30/82	221.02	04/08/81	209.39	03/16/92
11.		3500.	1955-	28.04	06/07/56	35.27	04/10/88	31.06	03/16/92
8.		3480.	1955-	32.33	03/23/64	35.93	03/17/66	34.78	03/16/92
16.		4240.	1963-	12.64	03/12/86	21.57	03/21/65	20.39	03/04/92
6.		4634.	1947-	10.30	03/16/49	13.25	09/21/55	12.25	02/26/92
6.		5360.	1974-	147.85	03/16/90	176.56	03/16/74	149.70	03/17/92
6.		6051.	1964-	6.02	03/20/87	8.78	08/31/66	7.50	03/17/92
6.		6054.	1966-	6.96	03/21/77	13.36	12/02/81	11.41	03/17/92
8.		6059.	1964-	24.23	03/20/87	26.19	12/03/81	24.40	03/17/92
1.		6075.	1966-	32.23	07/11/67	33.07	12/02/81	32.89	03/17/92
48.		6000.	1968-	21.74	06/20/84	36.92	03/19/68	25.30	03/17/92
6.		6179.	1953-	35.02	03/25/85	46.35	03/24/64	41.32	03/18/92
10.	120.- 400.	4960.	1969-	120.00	09/14/69	213.26	04/22/87	204.95	03/19/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO		SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
143	S03 E39 16CA 1	374036117392901	FOOTE MINERAL CO	009	S	110VLFL	U	60.	
149	N03 E48 32B 1	380400116380001	JOHN J CASEY	023	S	110VLFL	U	141.	
153	N19 E53 12C 1	393143115572701	IRENE ANDERSON	011	U	111FLDP	W	8.	
153	N21HE52 01BC 2	394342114385402	USBLM	011	S	110VLFL	U	160.	
153	N22 E54 27CAAB1	394520115524001	ROBERT STUCKI	011	H	110VLFL	W	94.	
153	N23 E53 27BB 1	395100115593001	USGS	011	U	110VLFL	W	22.	
153	N23 E53 30DD 1	395020116030001	USGS	011	U	110VLFL	W	22.	
153	N23 E54 18DB 1	395220115561001	USGS	011	U	110VLFL	U	32.	
154	N18 E55 31CACC1	392300115493001	FERA	033	S	110VLFL	U	56.	
155A	N17 E54 29CABB1	391858115550201	USBLM	011	S	110VLFL	U	60.	
156	N06 E51 17BD 1	382255116153801	USGS-MX	023	U		U	188.	
156	N08 E51 01BCBC1	383510116112901		023	U		U		
156	N08 E51 34CACD1	383026116132801	JOSEPH WILLIAMS	023	S	111ALVF	U	130.	
156	N09 E51 15DDCD1	383806116125951		023	U		U	2734.	
161	S16 E56 08BAAD1	363447115404601	U S AIR FORCE	003	P		U	437.	
162	S19 E53 15DB 1	361753116000901	DAWSON STARVER	023	U		U	395.	
162	S19 E53 27DD 1	361554115595501	GUY T ALEXANDER	023	P		U	500.	
162	S20 E52 22AA 1	361209116061401	H D TUDOR	023	I		U	300.	
162	S20 E52 23BBA 1	361204116060301	W M TURNER	023	U	110VLFL	A	500.	
162	S20 E52 36BD 1	361012116044701	JOHN A WHITE	023	I		U	253.	
162	S20 E53 06CDA 1	361405116033201	ROOKRIDGE & CARRADO	023	U	110VLFL	U	200.	
162	S20 E53 14DCB 1	361225115590301	WILLIAMS & CREWS	023	H	110VLFL	A	254.	
162	S21 E54 19DD 2	360611115561802	TURNER	023	U	110VLFL	W	76.	

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

457

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
6.		4325.	1967-	44.75	01/19/67	52.82	03/20/92	52.82	03/20/92
6.		5500.	1962-	107.56	03/20/86	113.42	05/04/72	108.67	03/21/92
30.		6500.	1962-	3.94	03/20/79	7.41	03/24/64	5.75	03/18/92
8.		5888.	1987-	72.05	02/09/87	78.03	03/20/92	78.03	03/20/92
12.		5858.	1949-	5.49	08/11/49	60.10	02/25/91	59.73	03/20/92
2.	20.- 22.	5820.	1964-	11.60	04/22/69	13.80	03/20/92	13.80	03/20/92
2.	20.- 22.	5821.	1964-	14.05	04/22/70	16.16	04/22/69	15.01	03/20/92
2.	30.- 32.	5800.	1964-	16.45	11/18/66	18.25	02/25/91	18.04	03/20/92
36.		5930.	1946-	22.67	03/24/87	43.96	09/11/63	37.75	03/19/92
48.		5987.	1962-	46.03	04/20/89	64.75	03/24/87	54.69	03/18/92
2.		5315.	1980-	78.73	10/16/91	102.00	09/01/80	78.73 78.73 78.77 78.81 79.00	10/16/91 10/21/91 03/27/92 06/25/92 09/18/92
10.		5765.	1990-	327.94	03/21/92	392.39	03/06/91	328.14 328.32 327.94 328.08 328.10	10/21/91 12/02/91 03/21/92 06/25/92 09/18/92
5.	120.- 145.	5492.	1948-	107.24	03/21/91	110.00	11/11/48	108.20 107.89 107.24 107.40 107.44	10/21/91 12/02/91 03/21/92 06/25/92 09/18/92
20.	1148.-2790.	6085.	1968-	757.50	05/11/92	2338.90	04/11/70	772.80 768.80 761.20 757.50 785.60	10/21/91 12/02/91 03/27/92 05/11/92 06/25/92
14.	133.- 418.	3133.	1984-	63.48	03/29/92	75.88	08/20/90	67.76 63.48 66.19 67.18	12/09/91 03/29/92 06/26/92 09/11/92
16.		2668.	1952-	62.00	07/18/52	120.60	11/07/84	107.07 112.45 106.55 106.34	12/09/91 03/16/92 06/16/92 09/10/92
14.		2640.	1967-	90.00	01/23/67	141.92	08/01/78	108.85 109.28 111.33 112.33	12/09/91 03/16/92 06/16/92 09/10/92
14.	36.- 300.	2560.	1955-	36.00	08/29/55	68.31	12/09/91	68.31 66.74 66.88 64.70	12/09/91 03/16/92 06/16/92 09/10/92
14.	32.- 500.	2531.	1954-	30.00	07/16/54	57.62	06/16/92	54.09 56.05 57.62 51.38	12/09/91 03/16/92 06/16/92 09/10/92
12.	25.- 125.	2520.	1951-	24.00	09/28/51	49.64	05/10/88	48.38 45.29 45.59 46.06	12/09/91 03/16/92 06/16/92 09/10/92
14.	30.- 168.	2558.	1952-	15.43	02/02/59	35.89	04/12/89	35.38	12/09/91
8.		2679.	1945-	-23.20	03/06/45	90.61	02/27/75	68.32 62.31 69.93 71.94	12/09/91 03/16/92 06/16/92 09/10/92
10.		2684.	1947-	32.20	05/28/53	52.70	09/10/92	51.78 51.14 52.48 52.70	12/09/91 03/16/92 06/16/92 09/10/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
162 S22 E53 01DA 1	360359115573201	CAROLE A MORRIS	023	I		U	325.
169B S11 E60 36AAD1	365711115115201	USGS-MX	017	U		U	261.
171 N03 E59 10BD 1	380758115204601	USGS	023	U		U	
172 N03 E58 01DA 1	380835115242601	USGS-MX	023	U		U	100.
172 N04 E58 36A 1	381000115240001	USBLM	023	S	110VLFL	U	27.
172 N05 E59 31CAA 1	381457115232901	USGS-MX	023	U		U	200.
173B N09 E56 20CD 1	383712115420301	USGS-MX	023	U		U	198.
173B N09 E57 20CAB 1	383730115352501		023	S		U	212.
173B N09 E58 18BC 1	383836115295701		023	S		U	70.
173B N10 E58 17BD 1	384342115284101	USGS-MX	023	U		U	580.
173B N10 E58 17BD 4	384348115283701	USGS-MX	023	U		U	600.
176 N28 E59 09C 1	401900115200001	RUBY VALLEY NO 1	007	S	110VLFL	U	44.
176 N32 E60 29C 1	403639115133001	USGS	007	U	110VLFL	U	202.
176 N32 E60 29C 2	403730115134002	USGS	007	U	110VLFL	W	15.
177 N35 E62 27B 1	405310114574001	USGS	007	U	110VLFL	U	286.
178B N22 E60 26AAB 1	394507115102501	PARIS	033	U	110VLFL	U	129.
179 N12 E63 12AB 1	385521114503601	USGS	033	U		U	640.
179 N15 E64 07A 1	391100114492001	LLOYD SORENSON	033	I	110VLFL	U	200.
179 N16 E64 06CBD1	391634114484901	USBLM	033	U		U	306.
181 N03 E63 27CAA 1	380531114534201	USGS-MX	017	U		U	2395.
183 N06 E66 35C 1	382003114322501	USBLM	017	U		U	161.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

459

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
16.	75.- 325.	2580.	1965-	36.00	03/17/65	67.25	09/10/92	65.09 64.34 66.58 67.25	12/09/91 03/16/92 06/16/92 09/10/92
6.		3208.	1986-	158.16	09/18/92	167.66	09/13/91	167.24 158.64 158.20 158.20 158.16	12/13/91 03/31/92 05/13/92 06/30/92 09/18/92
10.		5600.	1980-	797.05	08/17/87	804.60	03/13/92	801.90 804.60 801.90 802.10	12/12/91 03/13/92 06/18/92 09/10/92
2.		5250.	1985-	84.56	09/10/92	86.69	03/12/85	84.74 84.65 84.56	03/26/92 06/18/92 09/10/92
10.		5200.	1963-	22.00	03/13/92	26.62	04/22/71	22.75 22.00 22.93 23.76	12/12/91 03/13/92 06/18/92 09/10/92
2.		5479.	1980-	110.70	03/20/90	115.00	10/01/80	111.10 111.43 111.31	03/26/92 06/18/92 09/10/92
2.		4905.	1984-	108.57	03/26/92	110.28	09/17/92	108.57 109.48 110.28	03/26/92 06/24/92 09/17/92
		4765.	1991-	-1.26	12/06/91	2.16	09/17/92	-1.26 -0.54 2.12 2.16	12/06/91 03/22/92 06/24/92 09/17/92
6.		4840.	1984-	47.50	10/25/91	50.57	06/06/84	47.50 50.10 48.44 48.44 48.46	10/25/91 12/05/91 03/22/92 06/24/92 09/17/92
10.		5120.	1980-	272.36	07/16/91	281.00	11/30/80	272.74 273.73 274.91 275.77 276.72	10/22/91 12/05/91 03/22/92 06/24/92 09/17/92
3.		5135.	1984-	268.44	03/06/90	291.56	06/27/91	288.88 287.84 284.57 281.80 280.37	10/21/91 12/05/91 03/22/92 06/24/92 09/17/92
48.		6150.	1948-	14.61	04/24/73	42.11	04/03/81	37.41	04/01/92
6.		6000.	1949-	.35	04/22/83	5.20	04/01/92	5.20	04/01/92
2.		6000.	1960-	.75	03/31/70	7.48	09/21/61	7.32	04/01/92
6.		5650.	1941-	5.45	04/20/83	12.66	04/01/92	12.66	04/01/92
6.		6190.	1950-	59.85	04/21/69	66.18	08/07/84	64.83	03/19/92
		7320.	1980-	409.72	08/05/86	427.53	09/16/92	426.39 427.53	03/17/92 09/16/92
16.		6500.	1948-	30.25	06/12/84	41.83	03/10/61	40.98	03/23/92
6.	270.- 306.	6407.	1951-	224.25	07/26/85	270.00	06/10/51	263.13 264.77	10/25/91 03/18/92
10.		5560.	1980-	846.20	04/29/86	869.45	04/13/84	849.90 849.70 849.80 849.80 849.90	10/27/91 12/08/91 03/13/92 06/19/92 09/11/92
8.		5950.	1946-	13.03	07/26/46	138.75	09/15/92	137.48 137.47 137.17 137.67 138.75	10/21/91 12/02/91 03/24/92 06/22/92 09/15/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO		SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
183	N07 E66 16DC	1	382753114341301	USGS-MX	017	U		U	97.
183	N08 E65 02D	1	383502114383201	NEVADA HWY DEPT	017	U		U	130.
184	N10 E67 22AA	1	384310114261401	USGS-MX	033	U		U	100.
184	N10 E68 31CD	1	384039114232701	USGS-MX	033	U		U	150.
184	N11 E68 19DCDC1		384745114224401	USGS-MX	033	U		U	200.
184	N13 E67 18DCAB1		385920114294001	JORWOODS	033	S		U	120.
184	N14 E66 24BDD1		390352114305401	USGS-MX	033	U		U	160.
184	N15 E66 13D	1	390940114302001	J P JOHANSON	033	H		U	82.
189B	N43 E66 25D	1	413444114261701	ECCLES RANCH	007	U	110VLFL	W	28.
189D	N40 E69 13D	1	412100114060001	GAMBLE RANCH	007	S	110VLFL	U	
195	N11 E70 35AD	1	384702114041601	USGS-MX	033	U		U	101.
195	N11 E70 35BA	1	384714114051001	USGS-MX	033	U		U	200.
195	N11 E70 36BD	1	384702114034101	USGS-MX	033	U		U	101.
195	N14 E70 08DC	1	390543114081801	USGS-MX	033	U		U	79.
195	N15 E70 25DD	1	390812114033601	USGS-MX	033	U		U	94.
202	N01 E67 12DAC	1	375733114245101	TOWN OF PIOCHE	017	P		U	595.
202	N03 E66 23DAC	1	380608114322601	USBLM	017	U		U	116.
203	S01 E68 33B	1	374910114231001	LAVON PHILLIPS	017	I	110VLFL	U	120.
203	S02 E68 08B	5	374750114242001	USGS	017	U	110VLFL	U	110.
205	S04 E67 18B	1	373627114315301	EMORY CONAWAY	017	I	110VLFL	U	165.
205	S07 E67 21C	1	371928114300001	JAMES BRADSHAW	017	I		U	115.
205	S14 E66 15A	1	364321114351001	USGS	003	U	110VLFL	U	30.
207	N08 E62 30CD	1	383133115030201	USGS-MX	023	U		U	101.

461

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
2.		5988.	1980-	17.00	07/01/80	20.29	09/15/92	19.75	11/14/91
								19.72	03/24/92
								20.08	06/22/92
								20.29	09/15/92
2.		5975.	1964-	32.60	03/02/91	37.90	11/07/90	32.89	10/21/91
								32.97	12/02/91
								33.37	03/24/92
								32.94	06/22/92
								34.01	09/15/92
2.		5889.	1980-	65.58	09/29/91	67.00	07/01/80	65.77	03/24/92
								65.75	06/22/92
								65.82	09/15/92
2.		5906.	1980-	119.44	09/15/92	121.00	07/01/80	119.56	03/24/92
								119.49	06/22/92
								119.44	09/15/92
2.		5906.	1983-	93.10	03/08/90	95.80	09/15/92	95.20	03/24/92
								95.44	06/22/92
								95.80	09/15/92
6.		5850.	1960-	45.55	12/06/91	53.30	04/22/60	45.55	12/06/91
								51.18	03/17/92
								51.22	06/22/92
2.		5840.	1983-	35.92	03/17/92	38.92	04/21/83	35.92	03/17/92
								36.05	06/23/92
								36.22	09/16/92
		5760.	1952-	8.07	04/21/69	23.81	03/10/61	22.33	10/23/91
								13.62	12/06/91
								12.23	03/17/92
60.		5250.	1950-	7.07	04/25/85	15.21	02/28/68	12.66	04/01/92
6.		4800.	1968-	5.69	03/13/74	9.30	03/28/68	6.93	04/01/92
2.		5578.	1991-	68.84	09/16/92	69.23	09/26/91	69.02	03/25/92
								69.00	06/23/92
								68.84	09/16/92
2.		5660.	1980-	141.03	09/26/91	143.00	09/01/80	141.06	03/25/92
								141.09	06/23/92
								141.10	09/16/92
2.		5545.	1980-	66.08	03/25/92	67.00	09/01/80	66.08	03/25/92
								66.12	06/23/92
								66.27	09/16/92
2.		5996.	1992-	60.29	03/18/92	62.16	09/16/92	60.29	03/18/92
								61.24	06/23/92
								62.16	09/16/92
2.		5068.	1991-	10.57	03/18/92	11.23	09/16/92	10.57	03/18/92
								11.03	06/23/92
								11.23	09/16/92
10.	264.- 595.	5480.	1965-	91.08	03/15/85	113.15	03/24/92	113.15	03/24/92
								99.93	06/22/92
								93.78	09/15/92
72.		5674.	1946-	38.87	09/15/92	42.50	04/12/46	39.77	12/02/91
								38.96	03/24/92
								38.95	06/22/92
								38.87	09/15/92
10.	60.- 80.	4784.	1946-	30.32	04/25/46	41.63	03/11/81	39.60	03/23/92
5000.		1949-	10.72	03/20/50	22.82	08/27/64	18.16	03/23/92	
4360.		1963-	11.83	03/13/85	26.26	11/18/65	13.77	12/02/91	
								12.25	03/10/92
								13.11	06/22/92
								13.10	09/15/92
8.		3200.	1965-	12.22	03/10/92	20.62	11/18/65	15.12	12/16/91
								12.22	03/10/92
								13.51	06/29/92
		1800.	1961-	14.65	01/08/71	41.87	12/16/91	41.87	12/16/91
2.		5285.	1980-	27.72	09/05/91	91.60	03/22/90	64.45	10/12/91
								64.38	03/27/92
								64.39	06/17/92
								64.42	09/09/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

	LOCAL WELL NO		SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
207	N09 E61 07B 1	382432115095801	LLOYD SORENSON	023	S	110VLFL	W	43.	
207	N11 E61 35A 1	384640115045001	PUBLIC DOMAIN	033	S	110VLFL	U	44.	
207	N12 E60 27ACBD1	385226115124201	USBLM	033	S		U	325.	
207	N12 E62 18D 1	385400115024001	USGS	033	U	110VLFL	U	108.	
208	N03 E62 35B 1	380450114594201	USBLM	017	S		U	270.	
209	S06 E61 18DC 2	372500115104002	KENT WHIPPLE	017	U	110VLFL	W	41.	
209	S08 E61 02C 1	371640115072001	LAMB	017	I	110VLFL	U	92.	
210	S12 E63 29DABC1	365232114554401	USGS-MX	017	U		U	714.	
210	S12 E63 29DABC2	365227114554401	USGS-MX	017	U		U	1221.	
210	S13 E63 26AAAA1	364741114532801	USGS-MX	003	U	300CRBN	U	628.	
210	S13 E64 31DAAD1	364601114514301	USGS-MX	003	U		U	765.	
210	S14 E63 28ACDC1	364127114553001	USGS-MX	003	U		U	780.	
212	S17 E59 20BD 1	362750115244001	USBLM	003	S		U	300.	
212	S19 E57 28ADA 1	361622115350501	PAUL KINGSTON	003	H		U		
212	S19 E60 04DAB 1	361939115154801	NEVADA DIV OF FORESTRY	003	I	110VLFL	U	780.	
212	S19 E60 12DB 1	361806115122701	ELMER LAUB	003	H	110VLFL	U	240.	
212	S19 E60 22BDD 1	361703115150601	BOOKER REID	003	S		U	400.	
212	S19 E60 24CBC 1	361655115132101	MOORE	003	H		U	380.	

463

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
48.		5400.	1948-	28.99	03/31/88	31.83	03/24/65	30.07 30.01 29.65 30.12	10/24/91 12/06/91 03/19/92 06/24/92 09/17/92
6.		5400.	1953-	3.20	03/16/76	15.85	11/09/90	12.90 12.71 11.21 12.33	10/24/91 12/06/91 06/24/92 09/17/92
8.	130.- 300.	6237.	1957-	105.99	03/20/90	120.00	12/24/57	111.20 106.34 106.50 106.58 107.70	10/25/91 12/04/91 03/23/92 06/24/92 09/17/92
6.		5600.	1962-	44.21	03/27/85	55.97	02/26/91	54.38	10/24/91
		4870.	1963-	250.58	03/27/92	268.88	06/05/91	251.00 250.58 250.66 250.80	12/08/91 03/27/92 06/17/92 09/09/92
6.		3500.	1960-	5.85	02/23/63	11.76	01/18/77	9.96 10.13 9.12 7.89	12/10/91 03/11/92 06/17/92 09/16/92
10.		3020.	1952-	14.82	04/13/83	32.88	09/16/92	29.36 25.28 28.33 32.88	12/10/91 03/11/92 06/17/92 09/16/92
		2464.	1986-	542.70	02/06/86	549.10	01/31/89	548.70 548.60 548.70 548.90	12/10/91 03/18/92 06/17/92 09/08/92
10.		2467.	1981-	602.00	11/25/85	612.00	07/11/81	609.70 610.00 609.90 610.30	12/10/91 03/18/92 06/17/92 09/08/92
20.	121.-	2169.	1981-	347.84	03/14/85	352.00	05/06/81	349.14 350.12 348.73 349.10	12/10/91 03/18/92 06/15/92 09/14/92
4.		2159.	1985-	343.90	11/11/85	345.10	11/13/90	344.59 345.10 344.40 344.90	12/10/91 03/18/92 06/15/92 09/14/92
10.		2414.	1985-	585.00	12/20/85	589.90	09/12/91	589.60 589.70 589.50 589.70	12/10/91 03/11/92 06/17/92 09/08/92
11.	100.- 260.	2950.	1940-	26.01	02/14/72	30.88	02/14/45	27.43 26.99 26.99 27.07	12/09/91 03/10/92 06/15/92 09/11/92
8.		5660.	1978-	379.70	07/25/80	559.70	03/06/91	538.10 548.40 538.70 454.78	12/11/91 03/10/92 06/15/92 09/11/92
16.		2454.	1946-	-30.40	04/05/46	95.70	09/09/91	93.46 92.50 94.56 94.60	12/09/91 03/10/92 06/15/92 09/08/92
9.	80.- 240.	2350.	1975-	103.19	03/02/76	150.50	12/09/91	150.50 135.02 141.63 135.21	12/09/91 03/10/92 06/16/92 09/08/92
9.	200.- 400.	2360.	1976-	76.00	01/23/76	180.54	09/08/92	158.46 126.98 167.37 180.54	12/09/91 03/11/92 06/15/92 09/08/92
9.	210.- 380.	2315.	1977-	85.00	07/21/77	173.52	09/10/91	148.53 123.39 154.10 167.49	12/10/91 03/16/92 06/16/92 09/09/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S19 E60 29BDD 1	361613115171401	DAVID HOLLAND	003	H	100VLFL	U	303.
212 S19 E60 36CBB 1	361453115130301	SNMRE	003	P		U	330.
212 S19 E61 21DDB 1	361626115090701	CITY NLV	003	U	110VLFL	U	1300.
212 S19 E61 31ADCD1	361514115112901	JOHN WILLIS	003	H		U	300.
212 S19 E61 31ADDD1	361516115112301	BOB MILLER	003	P		U	360.
212 S19 E62 35DCDC1	361451115004401	LK MEAD B	003	P		U	838.
212 S20 E60 04CAD 1	361417115161301	EDWARD TOMSIK	003	H		U	500.
212 S20 E60 09DCC 1	361259115153901	LAWRENCE MONTELLO	003	H		U	450.
212 S20 E60 13DCCD1	361201115123701	TOM DELLAVALLE	003	H		U	157.
212 S20 E61 01ACCD1	361425115061901	USGS	003	U	110LSVG	U	84.
212 S20 E61 02DBB 1	361419115072201	HARTWELL & LOWE	003	U	110VLFL	U	785.
212 S20 E61 03DAD 2	361412115080801	NELLIS AFB	003	P	110VLFL	U	913.
212 S20 E61 04BDCA1	361426115095001		003	U	110VLFL	U	270.
212 S20 E61 11CDDC1	361305115073201	USGS	003	U	121MDCK	U	62.
212 S20 E61 13ABDB1	361232115061001	CITY NLV	003	P	110VLFL	U	1230.
212 S20 E61 14CCCC1	361212115065901	USGS	003	U		U	46.
212 S20 E61 18BCCD1	361237115121401	CITY NLV	003	P		U	360.
212 S20 E61 21BAAB1	361147115094001	CITY NLV	003	P	110VLFL	U	397.
212 S20 E61 22BCDD1	361141115085001	CITY NLV	003	P	110VLFL	U	1000.
212 S20 E61 22DACD1	361120115080401	CITY NLV	003	P	110VLFL	U	1105.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

465

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
8.		2530.	1968-	137.00	06/01/68	212.76	09/09/92	200.86 203.96 212.76	12/16/92 06/17/92 09/09/92
8.		2290.	1971-	127.15	03/05/71	193.73	09/10/91	173.69 172.53 176.80 183.79	12/10/91 03/11/92 06/16/92 09/08/92
8.	50.-1300.	2160.	1971-	23.00	04/08/71	39.21	09/08/92	38.18 37.72 37.94 39.21	12/09/91 03/12/92 06/16/92 09/08/92
9.	180.- 300.	2200.	1977-	123.74	02/24/81	163.12	09/08/92	145.59 141.66 161.93 163.12	12/09/91 03/12/92 06/16/92 09/08/92
8.	300.- 360.	2185.	1989-	138.55	03/12/92	160.56	09/11/91	147.62 138.55	12/09/91 03/12/92
14.	370.-	1867.	1972-	93.47	09/09/92	139.05	02/24/72	110.64 110.56 103.33 93.47	12/10/91 03/13/92 06/16/92 09/09/92
9.	285.- 500.	2380.	1973-	285.00	02/22/73	393.88	03/01/90	384.67 372.09 385.02	03/11/92 06/16/92 09/09/92
8.	360.-	2400.	1970-	330.00	07/22/70	449.00	06/27/84	425.76	12/10/91
8.		2224.	1971-	23.47	09/24/85	87.30	02/22/72	42.20 41.82 38.90	03/16/92 06/16/92 09/09/92
4.	80.- 84.	1919.	1979-	60.60	06/16/92	65.31	09/17/87	62.73 61.59 60.60 62.59	12/09/91 03/17/92 06/16/92 09/08/92
8.	90.- 430.	1900.	1949-	-17.00	03/27/50	61.57	10/09/87	47.58 47.10 49.85	03/11/92 06/16/92 09/08/92
12.	150.- 900.	1973.	1974-	39.50	03/01/77	150.94	08/30/88	75.06 67.79 67.50 70.84	12/10/91 03/13/92 06/16/92 09/09/92
12.		2103.	1976-	75.70	03/04/76	96.91	09/11/91	96.77 96.23 96.14 96.47	12/09/91 03/12/92 06/16/92 09/08/92
4.	58.- 62.	1920.	1979-	1.15	03/04/91	46.99	03/14/86	2.78 2.04 2.00 6.97	12/09/91 03/13/92 06/15/92 09/08/92
30.	102.-1039.	1857.	1973-	47.86	03/04/91	82.64	09/12/84	48.87 45.96 52.30 57.08	12/09/91 03/13/92 06/15/92 09/08/92
4.	43.- 46.	1910.	1981-	25.76	12/05/89	32.97	11/14/88	29.56 29.20 29.27 29.31	12/09/91 03/16/92 06/16/92 09/08/92
10.	300.- 500.	2208.	1964-	115.30	03/12/92	237.40	01/20/88	115.30 115.62 115.70	03/12/92 06/16/92 09/08/92
10.	200.- 395.	2064.	1973-	48.58	02/14/73	84.66	10/13/87	71.99 64.61 65.50 74.91	12/09/91 03/16/92 06/16/92 09/08/92
14.	500.- 925.	2019.	1973-	49.79	03/16/92	74.40	09/18/87	57.65 49.79 50.44 66.14	12/09/91 03/16/92 06/16/92 09/08/92
30.	249.-1019.	1911.	1973-	7.33	03/05/91	51.70	09/25/85	9.69 6.69 10.31 17.19	12/10/91 03/16/92 06/16/92 09/08/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S20 E61 27BDAA1	361102115083601	USGS	003	U	110VLFL	U	15.
212 S20 E61 30BDC 1	361053115120501	USGS	003	U		U	33.
212 S20 E61 31DCD 1	360937115113401	USGS	003	U		U	18.
212 S20 E61 32CDC 1	360941115104801	KENNETH SEARLES	003	H	110VLFL	A	665.
212 S20 E61 34CAA 1	360837115095501	USGS	003	U		U	22.
212 S20 E62 05CAAA1	361400115040901	CITY NLV	003	P	110VLFL	U	1000.
212 S20 E62 09CCC 1	361258115032101	NELLIS AFB	003	P		U	650.
212 S20 E62 15BBAB1	361233115021501	NELLIS AFB	003	P	110VLFL	U	1000.
212 S20 E62 18BABA1	361243115052501	CITY NLV	003	S	110VLFL	U	700.
212 S20 E62 26BBCC1	361100115011901	JOHN LEAR	003	H	110VLFL	U	320.
212 S20 E62 29DCAB1	361036115040401		003	U	110VLFL	W	97.
212 S20 E62 34CABB1	360952115020701		003	I		U	100.
212 S21 E60 01DBB 1	360847115125301	LUTTRELL	003	U		U	190.
212 S21 E60 12BABA1	360825115130301	DEAN & NICK DALACAS	003	U		U	159.
212 S21 E60 15BDDC1	360739115152701	WELLS CARGO	003	N	110VLFL	U	680.
212 S21 E60 16BDDB1	360712115155501	CLEAR GRAVEL INC	003	U		U	750.
212 S21 E60 35ADAB1	360444115132301	FRANK KIM	003	H	110VLFL	U	500.
212 S21 E61 03AAAD1	360924115081101	USGS	003	U	110VLFL	U	14.
212 S21 E61 03ABB 2	360931115083802	W PARK	003	H	110VLFL	U	807.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

467

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	11.- 15.	2010.	1979-	9.05	11/14/88	13.06	06/14/85	10.99 9.68 10.01 11.11	12/10/91 03/16/92 06/16/92 09/09/92
4.	27.- 31.	2000.	1981-	7.40	06/16/92	11.92	03/02/81	8.30 7.44 7.40 7.91	12/10/91 03/12/92 06/16/92 09/08/92
4.	14.- 18.	2155.	1981-	6.86	08/15/88	13.21	03/02/81	10.29 9.74 9.68 9.42	12/09/91 03/16/92 06/16/92 09/09/92
10.	570.- 650.	2102.	1946-	-81.30	02/27/46	108.19	08/07/75	43.98 37.28 44.97 52.96	12/09/91 03/16/92 06/16/92 09/09/92
4.	18.- 22.	2010.	1981-	5.23	03/16/87	8.77	07/20/83	6.92 5.26 5.60 6.90	12/10/91 03/16/92 06/15/92 09/09/92
14.	500.- 940.	1869.	1973-	87.68	03/02/82	144.82	09/16/86	105.03 88.56	12/09/91 03/12/92
14.	290.- 630.	1827.	1973-	75.23	03/13/92	243.70	09/22/89	85.37 75.23 144.60 105.44	12/10/91 03/13/92 06/16/92 09/09/92
14.	320.- 980.	1816.	1973-	81.68	03/13/92	137.05	09/12/90	114.00 81.68 96.06 109.10	12/10/91 03/13/92 06/16/92 09/09/92
9.	350.- 550.	1847.	1974-	46.79	03/13/92	92.51	03/05/74	50.00 46.79	12/09/91 03/13/92
9.	160.- 330.	1900.	1969-	136.79	03/16/92	154.34	02/26/86	141.17 136.79 138.10 140.86	12/12/91 03/16/92 06/15/92 09/10/92
8.		1766.	1971-	28.14	06/15/92	75.06	10/12/77	30.36 28.43 28.14 30.87	12/12/91 03/16/92 06/15/92 09/10/92
		1740.	1972-	31.73	06/15/92	53.45	03/07/75	33.08 31.98 31.73 32.07	12/12/91 03/16/92 06/15/92 09/10/92
8.		2261.	1974-	77.64	09/09/92	148.16	02/27/75	80.45 83.34 79.30 77.64	12/11/91 03/12/92 06/16/92 09/09/92
8.		2270.	1973-	75.12	09/09/92	154.56	03/02/77	81.35 80.40 77.20 75.12	12/10/91 03/11/92 06/16/92 09/09/92
10.	380.- 680.	2480.	1969-	362.30	09/13/84	467.97	01/07/86	430.57 433.09 435.24	12/11/91 03/12/92 06/17/92
8.	405.- 750.	2545.	1974-	443.05	03/08/74	492.20	03/09/89	486.82 486.70 486.00 484.80	12/11/91 03/12/92 06/16/92 09/11/92
8.	230.- 295.	2359.	1971-	257.88	03/04/71	338.23	09/13/84	312.80	06/17/92
4.	11.- 15.	1990.	1979-	6.96	06/20/85	8.67	06/27/84	7.53 7.24 7.17 7.59	12/10/91 03/16/92 06/15/92 09/09/92
12.		2014.	1944-	-38.11	03/06/44	72.98	09/05/80	51.79 40.20 47.64 61.40	12/10/91 03/16/92 06/15/92 09/09/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S21 E61 04ABC 1	360921115093601	USGS	003	U		U	17.
212 S21 E61 04DDBA2	360846115091402	USGS	003	U	110VLFL	U	20.
212 S21 E61 09BBBB1	360838115101801	USGS	003	U	110VLFL	U	24.
212 S21 E61 14ACA 1	360728115072901	SAHARA COUNTRY CLUB	003	I		U	750.
212 S21 E61 17BADD1	360735115105201	USGS	003	U	110LSVG	U	45.
212 S21 E61 22CCC 1	360600115091001	A P BAKER	003	U	110VLFL	A	500.
212 S21 E61 24CAD 1	360617115063801	USGS	003	U		U	24.
212 S21 E61 26DDBB1	360522115072101	CLARK COUNTY	003	U		U	25.
212 S21 E61 28CABB1	360528115094201		003	U		U	93.
212 S21 E61 36ADC 3	360449115061201	USGS	003	U	110VLFL	U	24.
212 S21 E62 08DBDA2	360733115034402	RONALD OKELBERRY	003	H		U	200.
212 S21 E62 10ACAA1	360826115020001	NEVADA POWER CO	003	U	110VLFL	U	715.
212 S21 E62 17DAB 1	360744115050801	USGS	003	U		U	11.
212 S21 E62 20DDD 1	360601115034401	L BILLMAN	003	U		U	500.
212 S21 E62 27CCCB1	360509115023001	NEVADA POWER CO	003	U		U	360.
212 S21 E63 30AAAA1	360832115060201	USGS	003	U		U	76.
212 S22 E60 20CACA1	360047115171401	MOFFAT & LILLIS	003	U	110VLFL	U	710.
212 S22 E61 04ACAD1	360400115092401		003	U		U	122.
212 S22 E61 10CCD 1	360235115090301	LEWIS J DEATCH	003	H		U	300.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

469

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
4.	13.- 14.	2047.	1981-	8.02	03/17/92	10.02	09/10/86	9.17 8.02 8.07 8.32	12/09/91 03/17/92 06/16/92 09/10/92
4.	16.- 20.	2042.	1979-	5.79	06/16/92	9.23	10/22/79	6.90 6.43 5.79 6.19	12/10/91 03/16/92 06/16/92 09/10/92
4.	21.- 25.	2075.	1979-	6.76	06/16/92	17.15	09/14/79	7.25 7.22 6.76 7.16	12/09/91 03/13/92 06/16/92 09/10/92
16.	500.- 746.	1930.	1961-	20.61	02/08/88	107.90	09/10/92	29.38 36.38 107.90	12/12/91 03/17/92 09/10/92
4.	41.- 45.	2120.	1979-	7.32	09/09/91	26.69	02/26/80	9.57 8.85 9.01 9.77	12/09/91 03/13/92 06/16/92 09/10/92
		2072.	1940-	-35.60	12/20/42	93.72	07/10/78	51.33 44.15 58.04 62.50	12/09/91 03/17/92 06/15/92 09/10/92
4.	20.- 24.	1950.	1981-	9.72	09/10/92	14.30	03/02/81	12.39 12.84 12.32 9.72	12/09/91 03/12/92 06/15/92 09/10/92
4.	26.- 30.	2010.	1981-	13.24	09/08/92	16.90	02/26/86	15.88 15.96 14.77 13.24	12/09/91 03/10/92 06/15/92 09/08/92
		2125.	1970-	22.28	09/08/92	40.06	03/11/74	24.17 23.10 22.42 22.28	12/09/91 03/10/92 03/16/92 09/08/92
2.	23.- 26.	1948.	1977-	14.22	09/08/92	25.39	09/11/86	15.04 14.54 14.38 14.22	12/09/91 03/10/92 06/15/92 09/08/92
9.	50.- 200.	1731.	1971-	11.76	03/11/88	28.59	06/13/89	13.01 11.78 14.66 12.47	12/10/91 03/13/92 06/15/92 09/10/92
13.	50.- 80.	1705.	1972-	11.69	03/22/85	19.97	02/22/72	17.98 17.10 16.48 17.00	12/10/91 03/16/92 06/15/92 09/10/92
4.	7.- 11.	1730.	1981-	3.80	06/25/81	9.70	09/11/84	7.98 5.76 6.06 8.12	12/10/91 03/13/92 06/15/92 09/10/92
		1720.	1973-	-62.50	08/27/90	-42.00	07/14/77	-61.50 -62.00	06/26/92 09/10/92
		1665.	1946-	17.90	03/10/92	24.72	11/28/47	19.37 17.90 18.58 19.55	12/12/91 03/10/92 06/16/92 09/09/92
4.	76.- 80.	1590.	1980-	14.80	04/09/85	31.06	06/26/80	23.74 24.89 18.65 17.37	12/12/91 03/11/92 06/16/92 09/09/92
8.	610.- 710.	2810.	1963-	473.00	02/25/63	498.04	03/14/83	479.64 479.70 479.90	12/11/91 06/17/92 09/11/92
		2159.	1955-	40.00	07/01/55	104.17	12/14/83	104.05 101.12 101.27 101.43	12/09/91 03/11/92 06/15/92 09/08/92
8.	168.- 300.	2160.	1970-	90.00	06/13/70	129.09	08/28/90	124.15 118.73	12/09/91 03/11/92

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

LOCAL WELL NO	SITE ID	OWNER	COUNTY	USE	GEOLOGIC UNIT	AQUIFER	WELL DEPTH (FEET)
212 S22 E61 12AAAD1	360321115060001	JOSEPHINE G BROWN	003	P	110VLFL	U	500.
212 S22 E61 18CACD1	360156115120501	DENNIS ABBY	003	U		U	360.
212 S22 E61 20BAD 1	360112115104301	ED CLOVER	003	U		U	210.
212 S22 E61 24ADD 1	360115115060201	NEVA COTLEY	003	H		U	300.
212 S22 E61 29DCDB1	360002115103801		003	U		U	300.
212 S22 E63 20ABCB1	360122114574801	CITY OF HENDERSON	003	U	110VLFL	U	750.
212 S23 E61 03BCC 1	361136115101401	SKY HARBOR AIRPORT	003	C	110VLFL	U	650.
213 S32 E66 13AB 1	350931114341601	BIG BEND WATER DISTRICT	003	P		U	111.
213 S32 E66 32AA 2	350721114380302	BIG BEND WATER DISTRICT	003	U		U	100.
213 S32 E66 33AAA 1	350723114364201	JOHN B KNIGHT	003	P		U	50.
213 S32 E66 33BBB 1	350726114375501	GEORGE CROMER	003	H		U	96.
215 S17 E67 30ABB 2	362556114322401	NV STATE PARKS	003	P		U	500.
218 S16 E65 33ACAA1	363010114424701	USBLM	003	U		U	400.
219 S13 E64 35ACAA1	364604114471301	USGS-MX	003	C		U	934.
222 S14 E69 13CB 1	364304114140501	CLIVEN BUNDY	003	H		U	234.

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

471

DIAM- ETER (IN)	PERFORATED INTERVAL (FT)	ELEVATION (FEET ABOVE SEA LEVEL)	PERIOD OF RECORD	WATER LEVELS (FT BELOW LAND SURFACE)					
				HIGHEST	DATE	LOWEST	DATE	CURRENT	DATE
9.	160.- 500.	2020.	1977-	22.52	03/11/92	66.00	09/11/86	22.52 42.35 42.68	03/11/92 06/15/92 09/08/92
8.		2356.	1972-	228.30	02/24/72	280.36	06/16/92	280.36	06/16/92
		2287.	1975-	179.39	03/04/77	207.24	06/16/92	207.24	06/16/92
9.	200.- 300.	2190.	1979-	155.07	02/27/80	205.00	02/22/79	172.60 171.50 173.39 174.77	12/09/91 03/11/92 06/15/92 09/08/92
8.		2275.	1979-	116.79	03/08/79	132.17	09/08/92	131.15 131.00 131.74 132.17	12/09/91 03/11/92 06/15/92 09/08/92
14.	460.- 630.	2030.	1971-	302.97	03/12/92	346.30	02/21/84	309.53 302.97 308.48 308.19	12/12/91 03/12/92 06/15/92 09/09/92
10.	220.- 650.	2375.	1969-	193.30	02/22/72	221.27	03/12/90	213.76 212.72	03/12/92 09/08/92
16.	69.- 111.	520.	1985-	20.25	05/21/86	41.14	05/15/87	31.29	05/12/92
5.	70.- 100.	510.	1983-	6.00	09/24/83	19.94	05/12/92	17.53 17.34 19.94	11/25/91 02/24/92 05/12/92
6.		507.	1967-	17.02	07/11/85	26.42	01/27/67	21.72 21.57 19.82	11/26/91 02/24/92 05/11/92
7.	95.-	511.	1973-	15.40	12/04/85	25.67	04/07/76	20.17 19.99 19.67	11/26/91 02/24/92 05/11/92
10.	330.- 488.	2130.	1978-	336.00	04/03/78	425.00	12/03/82	365.58 362.10 361.69	12/13/91 03/12/92 06/15/92
6.	360.- 400.	1978.	1949-	310.70	09/14/92	340.00	02/11/49	311.65 311.15 311.64 310.70	12/13/91 03/12/92 06/15/92 09/14/92
20.		2275.	1981-	457.00	06/06/81	461.96	12/08/88	458.10 457.80 458.20	03/18/92 06/15/92 09/14/92
8.	206.- 212.	1440.	1958-	65.54	11/11/67	92.36	06/15/92	83.19 87.28 92.36 82.24	12/13/91 03/12/92 06/15/92 09/14/92

QUALITY OF GROUND WATER

LAUGHLIN WELLS

Locations of following sites are shown in figure 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION NUMBER	LOCAL IDENTIFIER	STATION NAME	COUNTY	GEOLOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)
350721114380301	213 S32 E66 32AA 1	BIG BEND WELL 1 AREA 2	CLARK	FLOOD-PLAIN DEPOSITS	108	510
350723114364201	213 S32 E66 33AAA 1	B. LAUGHLIN (KNIGHT) WELL	CLARK	FLOOD-PLAIN DEPOSITS	50	507
350726114375501	213 S32 E66 33BBB 1	CROMER WELL	CLARK	FLOOD-PLAIN DEPOSITS	96	511
350930114351101	213 S32 E66 14DBDB1	MONITOR WELL 116	CLARK	VALLEY FILL	300	620
350931114341601	213 S32 E66 13AB 1	BIG BEND WELL 1 AREA 1	CLARK	FLOOD-PLAIN DEPOSITS	111	520

STATION	NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH WATER WHOLE FIELD (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	HARD-NESS TOTAL (MG/L AS CaCO3)
350721114380301		11-25-91	1345	17.53	1140	7.6	24.5	20.5	410
		02-24-92	1000	17.34	1230	7.8	20.0	20.0	410
		05-12-92	0830	19.94	1190	7.4	26.0	21.5	410
		09-01-92	0830	17.34	1210	7.8	26.0	21.0	410
350723114364201		11-26-91	1135	21.72	1260	7.6	19.0	19.5	400
		02-24-92	1400	21.17	1410	7.4	21.5	20.0	440
		05-11-92	1550	19.87	1290	7.6	34.0	21.0	400
		08-31-92	1530	21.54	1220	7.6	35.0	22.0	360
350726114375501		11-26-91	1005	20.17	1070	7.9	19.0	22.0	360
		02-24-92	1300	19.99	1020	7.5	21.5	22.0	350
		05-11-92	1415	19.67	1050	7.5	34.0	22.5	350
		08-31-92	1345	19.55	1160	7.8	35.0	23.0	410
350930114351101		11-26-91	1240	--	3190	7.3	22.5	28.0	830
		02-24-92	0900	--	3230	7.3	--	27.0	800
		05-12-92	1015	--	3150	7.2	32.0	28.0	770
		09-01-92	1000	--	3400	7.3	32.0	28.0	860
350931114341601		11-25-91	1440	32.85	1000	7.7	22.5	18.5	320
		02-24-92	1050	41.95	1420	7.8	--	17.5	440
		05-12-92	0930	31.29	1000	7.6	30.0	18.5	340
		09-01-92	0925	32.28	1730	7.7	28.0	20.0	490

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
11-25-91	110	32	110	2	4.3	320	91	0.40	20
02-24-92	110	34	98	2	3.9	280	84	0.20	21
05-12-92	110	33	100	2	4.3	290	84	0.20	19
09-01-92	110	32	100	2	4.3	300	91	0.30	19
11-26-91	110	30	140	3	5.2	350	93	0.30	18
02-24-92	120	34	140	3	4.7	370	100	0.20	19
05-11-92	110	30	130	3	4.6	340	83	0.20	18
08-31-92	100	27	120	3	5.3	320	85	0.30	18
11-26-91	94	30	100	2	3.3	260	72	0.30	19
02-24-92	91	29	99	2	3.0	230	68	0.20	21
05-11-92	93	29	100	2	3.4	230	70	0.30	20
08-31-92	110	32	99	2	3.4	270	77	0.30	19
11-26-91	210	73	360	5	8.2	560	560	0.80	29
02-24-92	210	66	380	6	8.4	530	540	0.50	31
05-12-92	200	65	370	6	7.6	510	530	0.60	28
09-01-92	220	75	410	6	8.4	590	590	0.70	29
11-25-91	86	26	98	2	4.0	280	87	0.30	12
02-24-92	120	35	130	3	4.6	350	160	0.20	14
05-12-92	95	26	96	2	4.1	270	80	0.20	13
09-01-92	130	40	170	3	5.6	410	210	0.30	14

QUALITY OF GROUND WATER

473

LAUGHLIN WELLS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
11-25-91	738	818	1.00	0.210	3	--	150	--	--
02-24-92	901	771	1.23	<0.050	4	--	140	--	--
05-12-92	796	766	1.08	<0.050	3	87	150	<1.0	<1
09-01-92	796	762	1.08	0.054	3	--	150	--	--
11-26-91	818	865	1.11	0.160	4	--	190	--	--
02-24-92	912	914	1.24	<0.050	5	--	190	--	--
05-11-92	880	835	1.20	<0.050	5	75	190	<1.0	<1
08-31-92	796	789	1.08	<0.050	4	--	180	--	--
11-26-91	721	722	0.98	<0.050	4	--	140	--	--
02-24-92	726	682	0.99	<0.050	4	--	130	--	--
05-11-92	664	685	0.90	<0.050	3	27	140	<1.0	<1
08-31-92	770	763	1.05	<0.050	3	--	140	--	--
11-26-91	2020	2040	2.75	29.0	<1	--	750	--	--
02-24-92	1970	1890	2.68	5.50	<1	--	750	--	--
05-12-92	1990	1950	2.71	28.0	<1	<100	800	<1.0	1
09-01-92	2250	2180	3.06	31.0	1	--	830	--	--
11-25-91	575	684	0.78	0.130	2	--	130	--	--
02-24-92	936	912	1.27	0.098	3	--	160	--	--
05-12-92	688	679	0.94	0.170	3	47	140	<1.0	<1
09-01-92	1100	1090	1.50	0.260	2	--	210	--	--

DATE	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
11-25-91	--	23	--	760	--	--	--	--	2.4
02-24-92	--	49	--	810	--	--	--	--	2.6
05-12-92	<1	210	<1	780	<0.1	<1	<1.0	<3	2.1
09-01-92	--	140	--	780	--	--	--	--	2.1
11-26-91	--	130	--	780	--	--	--	--	2.2
02-24-92	--	400	--	890	--	--	--	--	2.6
05-11-92	<1	140	<1	800	<0.1	<1	<1.0	6	2.5
08-31-92	--	96	--	720	--	--	--	--	2.5
11-26-91	--	48	--	380	--	--	--	--	2.4
02-24-92	--	150	--	370	--	--	--	--	2.6
05-11-92	<1	9	<1	370	<0.1	<1	<1.0	4	2.4
08-31-92	--	8	--	430	--	--	--	--	2.7
11-26-91	--	20	--	<10	--	--	--	--	1.9
02-24-92	--	40	--	<10	--	--	--	--	2.4
05-12-92	2	20	<1	<10	<0.1	1	<1.0	40	2.0
09-01-92	--	50	--	10	--	--	--	--	2.0
11-25-91	--	43	--	160	--	--	--	--	1.4
02-24-92	--	34	--	300	--	--	--	--	1.7
05-12-92	2	25	<1	160	<0.1	2	<1.0	6	1.3
09-01-92	--	28	--	300	--	--	--	--	1.7

GROUND-WATER LEVELS

DOUGLAS COUNTY

Water-Use: H, domestic; I, irrigation; P, public supply; S, stock; U, unused.

Water-Level: Levels above LSD (land-surface datum) are listed as negative values.

Water-Level Status: R, the same site had been pumped recently; S, a nearby site that taps the same aquifer was being pumped; V, foreign substance present on the surface of the water; X, water-level affected by stage in nearby surface-water site.

Water-Level Method: G, pressure gage; S, steel tape.

Locations of following sites are shown in figure 24.

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET) ABOVE SEA LEVEL	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N12 E19 11CDCC1	BLANKENSHIP	385439119490901	S	60	4714	12/06/91	-1.85	-	S
105 N12 E19 23CDBC1	USGS - SCOSSA	385304119460601	U	27	4793	12/06/91	5.45	-	S
						03/13/92	5.38	-	S
						06/10/92	5.77	-	S
						09/15/92	5.85	-	S
105 N12 E19 24CDCB1	LUCEN	385300119480501	S	--	4733	12/06/91	-13.6	-	G
						03/13/92	-12.5	-	G
						06/10/92	-13.4	-	G
105 N12 E19 36ADDA1	LEWALLEN LAND & CATTLE CO	385138119471801	I	198	4794	12/05/91	4.85	-	S
						03/13/92	5.20	X	S
						06/10/92	4.34	-	S
						09/15/92	5.12	-	S
105 N12 E20 04BAAA2	USGS - HIGHWAY YARD	385620119453101	U	21	4759	03/10/92	7.52	-	S
						06/10/92	4.94	-	S
						09/15/92	7.98	-	S
105 N12 E20 06BADD1	ERICA VALLEY RANCH	385612119464401	I	430	4716	10/01/91	7.52	-	S
						10/08/91	7.40	-	S
						10/15/91	6.99	-	S
						10/22/91	6.87	-	S
						10/29/91	5.86	-	S
						11/12/91	5.32	-	S
						11/26/91	4.98	-	S
						12/10/91	4.80	-	S
						12/23/91	4.87	-	S
						01/07/92	4.69	-	S
						01/21/92	4.72	-	S
						02/04/92	4.67	-	S
						02/18/92	4.58	-	S
						03/10/92	4.70	-	S
						03/31/92	4.67	-	S
						06/11/92	6.29	S	S
						09/15/92	9.15	R	S
105 N12 E20 09BCAD1	WHITE	385512119444801	I	450	4769	03/12/92	24.47	-	S
105 N12 E20 13DDBB1	LEE	385413119405001	H	250	5000	12/04/91	150.16	-	S
						03/11/92	149.30	-	S
						06/09/92	151.50	-	S
						09/14/92	151.60	-	S
105 N12 E20 20ABAB1	RANCHOS WELL 5	385343119452301	P	450	4793	12/05/91	60.18	-	S
						03/12/92	60.22	-	S
105 N12 E20 24AAAA1	MCBRYDE	385340119403601	H	195	4986	12/05/91	137.81	-	S
						03/11/92	136.78	-	S
						06/09/92	137.94	-	S
						09/14/92	139.19	-	S
105 N12 E20 24ADCC2	BLUMENTHAL	385321119405002	H	145	4980	12/05/91	94.63	-	S
						06/11/92	100.40	-	S
						09/14/92	101.79	-	S
105 N12 E20 24BAAB1	GREENWOOD	385344119411401	H	--	4972	12/05/91	91.39	-	S
						03/11/92	90.79	-	S
						06/10/92	92.78	-	S
						09/14/92	92.50	-	S
105 N12 E20 24BDCA1	TIANO	385325119412001	H	150	4960	12/05/91	57.20	-	S
						03/12/92	55.81	-	S
						06/10/92	58.79	-	S
						09/14/92	60.29	-	S
105 N12 E20 24CDAD1	SELIGMAN	385301119411301	H	150	4964	12/05/91	76.42	-	S
						03/12/92	74.49	-	S
						06/10/92	78.29	-	S
						09/15/92	79.96	-	S

GROUND-WATER LEVELS
DOUGLAS COUNTY--Continued

475

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N12 E20 24DDAB1	SEYMOUR	385305119404001	H	--	5010	12/05/91	153.11	-	S
						03/12/92	148.25	-	S
						06/10/92	151.46	-	S
						09/15/92	150.89	-	S
105 N12 E21 05AADD1	LONGUEVAN	385612119382701	H	120	5131	12/04/91	23.37	-	S
						03/11/92	25.44	R	S
						06/09/92	24.32	-	S
						09/14/92	27.35	-	S
105 N12 E21 05BCAA1	DOUGLAS CO FIRE	385610119391801	H	--	5077	12/04/91	23.59	-	S
						03/11/92	23.09	-	S
						06/11/92	31.64	R	S
						09/14/92	24.79	-	S
105 N12 E21 05DBDD1	SANDERS	385548119385001	H	70	5122	12/04/91	29.13	-	S
						03/11/92	28.12	-	S
						06/09/92	29.71	-	S
						09/14/92	30.27	-	S
105 N12 E21 06BDCA1	BROWN	385602119401301	H	96	5005	12/04/91	17.15	-	S
						09/14/92	13.69	-	S
105 N12 E21 10BCD 1	SNAVELY	385507119370301	H	190	5360	12/04/91	57.85	-	S
						03/11/92	57.74	-	S
						06/09/92	66.18	R	S
						09/14/92	59.65	-	S
105 N13 E19 04DACD1	GERHARD/JANSEN	390058119504601	H	370	4920	03/13/92	224.47	-	S
						06/11/92	230.07	-	S
105 N13 E19 09DAAB1	GENOA PARK	390016119504101	P	159	4776	12/06/91	54.67	-	S
						03/10/92	53.97	-	S
						06/11/92	57.19	R	S
105 N13 E19 12BBAD1	SETTLEMAYER HOME RANCH	390037119480701	S	400	4667	12-06-91	-8.8	-	G
						03/13/92	-10.6	-	G
						04/14/92	-10.9	-	G
						04/21/92	-10.6	-	G
						04/28/92	-10.4	-	G
						05/05/92	-10.2	-	G
						05/12/92	-10.2	-	G
						05-19-92	-9.9	-	G
						05-26-92	-9.9	-	G
						06-02-92	-8.3	-	G
						06-09-92	-5.1	-	G
						06/17/92	0.57	-	S
						06/23/92	0.14	-	S
						06/30/92	5.14	-	S
						07/07/92	7.79	-	S
						07/14/92	10.10	-	S
						07/21/92	10.47	-	S
						07/28/92	9.78	-	S
						08/04/92	12.59	-	S
						08/11/92	13.49	-	S
						08/18/92	13.02	-	S
						08/25/92	13.30	-	S
						09/01/92	12.95	-	S
						09/08/92	14.39	-	S
						09/15/92	9.58	-	S
						09/22/92	6.33	-	S
						09/29/92	4.53	-	S
105 N13 E19 22DCAC2	USGS - MILLER BROOK EAST	385815119500202	U	18	4677	12/06/91	6.00	-	S
						03/10/92	6.17	-	S
						06/11/92	4.49	-	S
						09/15/92	6.85	-	S
105 N13 E19 24CADD1	DANGBERG - MULLER LANE	385821119475001	S	401	4685	10-01-91	-8.1	-	G
						10-08-91	-7.6	-	G
						10-15-91	-8.6	-	G
						10-22-91	-9.3	-	G
						10-29-91	-9.7	-	G
						11/12/91	-10.9	-	G
						11/26/91	-10.4	-	G
						12/10/91	-10.0	-	G
						12/23/91	-12.5	-	G
						01/07/92	-12.0	-	G
						01/21/92	-12.5	-	G
						02/04/92	-13.2	-	G
						02/18/92	-12.0	-	G
						03/10/92	-13.4	-	G
						03/31/92	-12.5	-	G

GROUND-WATER LEVELS
DOUGLAS COUNTY--Continued

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N13 E19 24CADD1	DANGBERG - MULLER LANE	385821119475001	S	401	4685	04/14/92	-12.3	-	G
						04/21/92	-12.3	-	G
						04/28/92	-11.8	-	G
						05/05/92	-12.0	-	G
						05/12/92	-12.0	-	G
						05/19/92	-12.0	-	G
						05/26/92	-12.0	-	G
						06/02/92	-11.3	-	G
						06/09/92	-10.4	-	G
						06-16-92	-8.1	-	G
						06-23-92	-8.1	-	G
						06-30-92	-7.2	-	G
						07-07-92	-5.6	-	G
						07-14-92	-4.2	-	G
						07-21-92	-4.4	-	G
						07-28-92	-2.6	-	G
						08-18-92	-3.0	-	G
						09-15-92	-5.1	-	G
						09-22-92	-5.1	-	G
						09-29-92	-5.6	-	G
105 N13 E19 33DADD1	ALLERMAN	385637119503701	U	80	4755	12/06/91	28.61	-	S
						03/11/92	27.75	-	S
						06/11/92	28.86	-	S
						09/15/92	32.08	-	S
105 N13 E20 02CBB 1	HASTIE	390106119424301	H	176	4860	12/04/91	109.04	-	S
						03/11/92	108.79	-	S
						06/09/92	109.85	-	S
						09/14/92	110.38	-	S
105 N13 E20 03BCBB1	HECKMAN	390122119424701	H	108	4756	12/04/91	33.73	-	S
						06/09/92	34.14	-	S
105 N13 E20 07BDCC1	SETTLEMAYER SOUTH	390018119465501	S	234	4677	04-08-92	-4.8	-	G
						04-14-92	-5.1	-	G
						04-21-92	-4.6	-	G
						04-28-92	-4.2	-	G
						05-05-92	-3.7	X	G
						05-12-92	-3.9	-	G
						05-19-92	-4.6	-	G
						05-26-92	-4.6	-	G
						06/02/92	-0.22	-	S
						06/09/92	4.20	-	S
						06/16/92	7.27	-	S
						06/23/92	9.74	-	S
						06/30/92	12.02	-	S
						07/07/92	10.96	-	S
						07/14/92	12.55	-	S
						07/21/92	12.59	-	S
						07/28/92	11.95	-	S
						08/04/92	17.14	-	S
						08/11/92	14.03	-	S
						08/18/92	14.21	-	S
						08/25/92	14.20	-	S
						09/01/92	18.52	-	S
						09/08/92	13.36	-	S
						09/15/92	7.09	-	S
						09/22/92	4.05	-	S
						09/29/92	4.66	-	S
105 N13 E20 08ACBC1	USGS - HEYBURN AIRPORT	390024119453501	U	21	4692	12/04/91	7.15	-	S
						03/11/92	7.59	-	S
						09/14/92	8.06	-	S
105 N13 E20 14AADA1	NEVIS - NORTH	385944119414501	U	301	4890	12/04/91	94.44	-	S
						03/11/92	95.49	-	S
						06/09/92	95.12	-	S
						09/14/92	94.84	-	S
105 N13 E20 19AAAB1	DANGBERG - TROUGH	385859119461501	S	318	4696	10/01/91	8.36	-	S
						10/08/91	10.45	-	S
						10/15/91	6.33	-	S
						10/22/91	5.30	-	S
						10/29/91	2.74	-	S
						11/12/91	0.56	-	S
						11/26/91	-0.85	-	S
						12/10/91	-1.20	-	S
						12/23/91	-1.27	-	S
						01/07/92	-1.66	-	S
						01/21/92	-2.05	-	S
						02/04/92	-2.02	-	S
						02/18/92	-2.08	-	S
						03/10/92	-1.88	-	S
						03/31/92	-1.88	-	S

GROUND-WATER LEVELS
DOUGLAS COUNTY--Continued

477

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET) ABOVE SEA LEVEL	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N13 E20 19AAAB1	DANGBERG - TROUGH	385859119461501	S	318	4696	04/14/92	-1.71	-	S
						04/21/92	-1.76	-	S
						04/28/92	-1.87	-	S
						05/05/92	-2.00	-	S
						05/12/92	-2.00	-	S
						05/19/92	-2.12	-	S
						05/26/92	-2.13	-	S
						06/02/92	-0.05	-	S
						06/09/92	5.33	-	S
						06/16/92	9.71	-	S
						06/23/92	9.54	-	S
						06/30/92	14.97	-	S
						07/07/92	16.53	-	S
						07/14/92	17.03	-	S
						07/21/92	17.40	-	S
						07/28/92	16.81	-	S
						08/04/92	22.06	-	S
						08/11/92	24.28	-	S
						08/18/92	21.44	-	S
						08/25/92	19.88	-	S
						09/01/92	22.09	-	S
						09/08/92	21.11	-	S
						09/15/92	15.43	-	S
						09/22/92	12.87	-	S
						09/29/92	12.24	-	S
105 N13 E20 22CADD1	DANGBERG SEC 22	385821119432401	I	--	4799	12/05/91	23.18	-	S
						03/12/92	25.12	-	S
						04/14/92	25.10	-	S
						04/21/92	24.68	X	S
						04/28/92	24.44	-	S
						05/05/92	24.25	-	S
						05/12/92	24.06	-	S
						05/19/92	23.49	X	S
						05/26/92	23.08	-	S
						06/02/92	22.89	X	S
						06/09/92	22.68	-	S
						06/16/92	22.60	X	S
						06/23/92	22.53	-	S
						06/30/92	22.63	X	S
						07/07/92	22.66	X	S
						07/14/92	22.59	-	S
						07/21/92	22.69	X	S
						07/28/92	23.04	-	S
						08/04/92	23.30	-	S
						08/11/92	23.62	-	S
						08/18/92	23.86	-	S
						08/25/92	24.07	-	S
						09/01/92	24.19	-	S
						09/08/92	24.40	-	S
						09/15/92	24.54	-	S
						09/22/92	24.77	-	S
						09/29/92	24.96	-	S
105 N13 E20 23DDDA1	NEVIS - SOUTH	385815119413101	I	392	4885	12/04/91	80.42	-	S
						03/11/92	80.70	-	S
						06/09/92	80.78	-	S
						09/14/92	81.08	-	S
105 N13 E20 26DADD1	LISSER	385729119414501	H	180	4922	12/04/91	107.78	-	S
						03/11/92	108.21	-	S
						06/09/92	108.28	-	S
						09/14/92	108.85	-	S
105 N13 E20 32CAAA1	MACK LAND & CATTLE CO	385630119452001	I	420	4733	03/12/92	12.76	-	S
105 N13 E20 34ACBC2	JONTEY	385658119432001	H	90	4790	10/01/91	8.86	-	S
						10/08/91	9.07	-	S
						10/15/91	9.20	-	S
						10/22/91	9.38	-	S
						10/29/91	9.48	-	S
						11/12/91	9.72	-	S
						11/26/91	9.93	-	S
						12/10/91	10.19	-	S
						12/23/91	10.50	-	S
						01/07/92	10.89	-	S
						01/21/92	11.27	-	S
						02/04/92	11.65	-	S
						02/18/92	12.01	-	S
						03/10/92	12.53	-	S
						03/31/92	12.95	-	S
						06/11/92	7.79	-	S
						09/15/92	10.78	-	S

GROUND-WATER LEVELS
DOUGLAS COUNTY--Continued

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N13 E21 19CBBA1	BUCKEYE CREEK WELL	385834119395901	S	140	4960	12/04/91	93.44	-	S
						03/11/92	96.65	-	S
						06/09/92	99.56	-	S
105 N13 E21 28CCBC1	BLM - FISH SPRING WINDMILL	385724119382301	S	95	5160	12/04/91	59.40	-	S
						03/11/92	59.56	-	S
						06/09/92	60.03	-	S
						09/14/92	60.54	-	S
105 N13 E21 32BDAD1	JONES	385657119385801	I	608	5141	12/04/91	32.04	-	S
						03/11/92	32.26	-	S
						06/09/92	32.66	-	S
						09/14/92	33.27	-	S
105 N14 E19 15BBAB1	ASCUAGA	390501119502401	S	240	5138	03/10/92	32.17	V	S
105 N14 E19 26ABBC1	HARVEY GROSS - STOCK WELL	390315119485001	I	--	4776	12/06/91	17.47	-	S
						03/13/92	16.50	-	S
						06/11/92	17.68	-	S
						09/15/92	19.53	-	S
105 N14 E19 34DBAD1	HARVEY GROSS - GAME FARM	390156119495401	I	248	4715	03/13/92	56.56	-	S
105 N14 E20 07ADCB1	INDIAN HILLS E WELL	390538119462401	P	365	4799	12/04/91	105.83	-	S
						03/11/92	103.98	-	S
						09/14/92	109.77	R	S
105 N14 E20 07CBAD2	DOUGLAS COUNTY - WEST	390525119465902	U	236	4835	03/27/92	114.35	-	S
105 N14 E20 28CBAB1	PAUL UNRUH - TURF NORTH	390254119445101	I	420	4680	12/04/91	12.95	V	S
						03/11/92	12.53	V	S
						06/09/92	13.61	V	S
						09/14/92	15.74	V	S
105 N14 E20 29ACCC1	USGS - HEYBURN RAILROAD	390307119452201	U	17	4657	12/04/91	9.38	-	S
						03/11/92	8.19	-	S
						06/09/92	8.30	-	S
						09/14/92	10.08	-	S
105 N14 E20 31BCAA1	SETTLEMEYER NORTH	390212119470101	S	290	4659	04/08/92	-2.36	-	S
						04/21/92	-2.34	-	S
						04/28/92	-2.34	-	S
						05/05/92	-2.32	-	S
						05/12/92	-2.32	-	S
						05/19/92	-2.32	-	S
						05/26/92	-2.33	-	S
						06/02/92	-2.33	-	S
						06/09/92	1.57	-	S
						06/16/92	-0.93	-	S
						06/23/92	-1.08	-	S
						06/30/92	6.07	-	S
						07/07/92	5.90	-	S
						07/14/92	7.19	-	S
						07/21/92	6.85	-	S
						07/28/92	8.05	-	S
						08/04/92	7.69	-	S
						08/11/92	7.86	-	S
						08/18/92	6.90	-	S
						08/25/92	8.11	-	S
						09/01/92	11.32	-	S
						09/08/92	10.42	-	S
						09/15/92	8.76	-	S
						09/22/92	6.90	-	S
						09/29/92	5.84	-	S
105 N14 E20 33BCDA1	PAUL UNRUH - TURF SOUTH	390208119444601	I	218	4683	12/04/91	3.74	V	S
						03/11/92	3.21	V	S
						06/09/92	3.95	V	S
105 N14 E20 33DADA1	HOFFMAN	390156119435801	H	125	4729	12/04/91	20.26	-	S
						03/11/92	18.99	-	S
						09/14/92	29.51	R	S
105 N14 E20 33DADA2	KAUDMAN	390152119435801	H	--	4730	12/04/91	17.68	-	S
						09/14/92	20.44	-	S
105 N14 E20 34BAAA1	SLAUGHTER	390228119432501	U	126	4782	12/04/91	61.33	-	S
						03/11/92	62.35	-	S
						06/09/92	61.58	-	S
						09/14/92	65.59	S	S
105 N14 E20 34BDBD1	KINCAID	390208119433201	H	100	4750	12/04/91	29.55	-	S
						06/09/92	30.79	-	S
						09/14/92	31.02	-	S

GROUND-WATER LEVELS
DOUGLAS COUNTY--Continued

479

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
105 N14 E20 35BABC1	MERRIFIELD	390222119423001	H	201	4941	12/04/91	149.23	-	S
						03/11/92	149.69	-	S
						06/09/92	150.59	-	S
						09/14/92	150.46	-	S
106 N10 E22 29CDBA2	TOPAZ LODGE	384151119324101	H	204	5120	12/09/91	163.53	-	S
						06/10/92	158.95	-	S
						09/15/92	150.25	-	S
106 N10 E22 29CDBA3	TOPAZ LODGE	384151119324102	H	224	5120	12/09/91	203.59	-	S
						03/12/92	198.39	-	S
						06/10/92	199.60	-	S
						09/15/92	197.57	-	S

QUALITY OF GROUND WATER

DOUGLAS COUNTY

Depths and Water Levels: Depths are referenced to land-surface datum (LSD). Locations of following sites are shown in figure 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL WELL NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)
384357119300201	105	N10 E22 15ADBB1	08-14-92	1130	110.69	--	660	28.5
385926119481601	105	N13 E19 13BCC 1	12-12-91	1250	--	500	211	--
			03-11-92	1340	--		222	--
			06-25-92	1205	--		189	--
			08-13-92	1355	--		211	30.0
390446119451401	105	N14 E20 17ADCA1	12-11-91	1215	3.87	27	4140	--
			03-17-92	1235	--		4220	--
			06-23-92	1030	7.30		4260	--
			08-13-92	1620	5.19		4420	35.0
390232119443201	105	N14 E20 28CDC 1	12-11-91	1325	--	88	636	--
			03-11-92	1050	--		649	--
			06-23-92	1145	--		629	--
			08-12-92	0930	--		645	39.5
390208119433201	105	N14 E20 34BDBD1	12-11-91	1510	29.45	100	392	--
			03-11-92	1200	--		377	--
			06-23-92	1300	--		393	--
			08-12-92	1045	34.38		402	39.5
384156119323301	106	N10 E22 29CADA1	12-12-91	1455	95.69	183	480	--
			03-12-92	1040	91.00		482	--
			06-24-92	1015	93.46		507	--
			08-13-92	1110	--		518	25.5
384136119323901	106	N10 E22 32BAAB2	12-12-91	1615	94.77	105	496	--
			03-11-92	1205	--		344	--
			06-24-92	1130	102.09		430	--
			08-13-92	1000	103.99		426	24.5

DATE	TEMPER- ATURE WATER (DEG C)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
08-14-92	19.5	310	96	17	22	0.5	1.2	96	16
12-12-91	15.0	60	17	4.2	18	1	4.4	19	5.5
03-11-92	15.0	71	20	5.0	19	1	4.6	19	6.1
06-25-92	16.5	50	14	3.7	17	1	4.2	15	3.1
08-13-92	15.0	61	17	4.4	18	1	4.5	20	5.7
12-11-91	12.5	830	320	6.5	650	10	7.4	1800	230
03-17-92	14.0	780	300	6.5	640	10	6.0	1800	280
06-23-92	14.0	800	310	7.0	710	11	7.4	1900	220
08-13-92	15.5	930	360	6.9	660	9	7.6	1800	250
12-11-91	13.5	160	54	5.8	70	2	4.6	93	25
03-11-92	14.0	160	55	6.5	75	3	4.5	98	26
06-23-92	16.5	150	51	6.3	75	3	4.6	87	22
08-12-92	17.0	160	53	6.5	74	3	5.0	94	24
12-11-91	14.0	61	16	5.1	54	3	3.7	52	20
03-11-92	14.5	61	16	5.2	55	3	3.7	50	19
06-23-92	16.5	64	17	5.2	58	3	3.7	54	18
08-12-92	16.5	65	17	5.5	57	3	3.7	54	21
12-12-91	15.5	200	55	14	22	0.7	1.5	78	7.5
03-12-92	16.0	200	57	15	21	0.6	1.8	79	10
06-24-92	17.0	210	61	15	23	0.7	1.6	81	7.4
08-13-92	17.5	220	61	16	22	0.6	1.5	75	7.5
12-12-91	12.0	230	61	19	14	0.4	6.2	13	17
03-11-92	14.0	150	39	13	11	0.4	5.0	15	12
06-24-92	15.0	190	49	16	13	0.4	5.4	13	14
08-13-92	15.5	190	50	17	13	0.4	5.5	12	13

QUALITY OF GROUND WATER

DOUGLAS COUNTY--continued

481

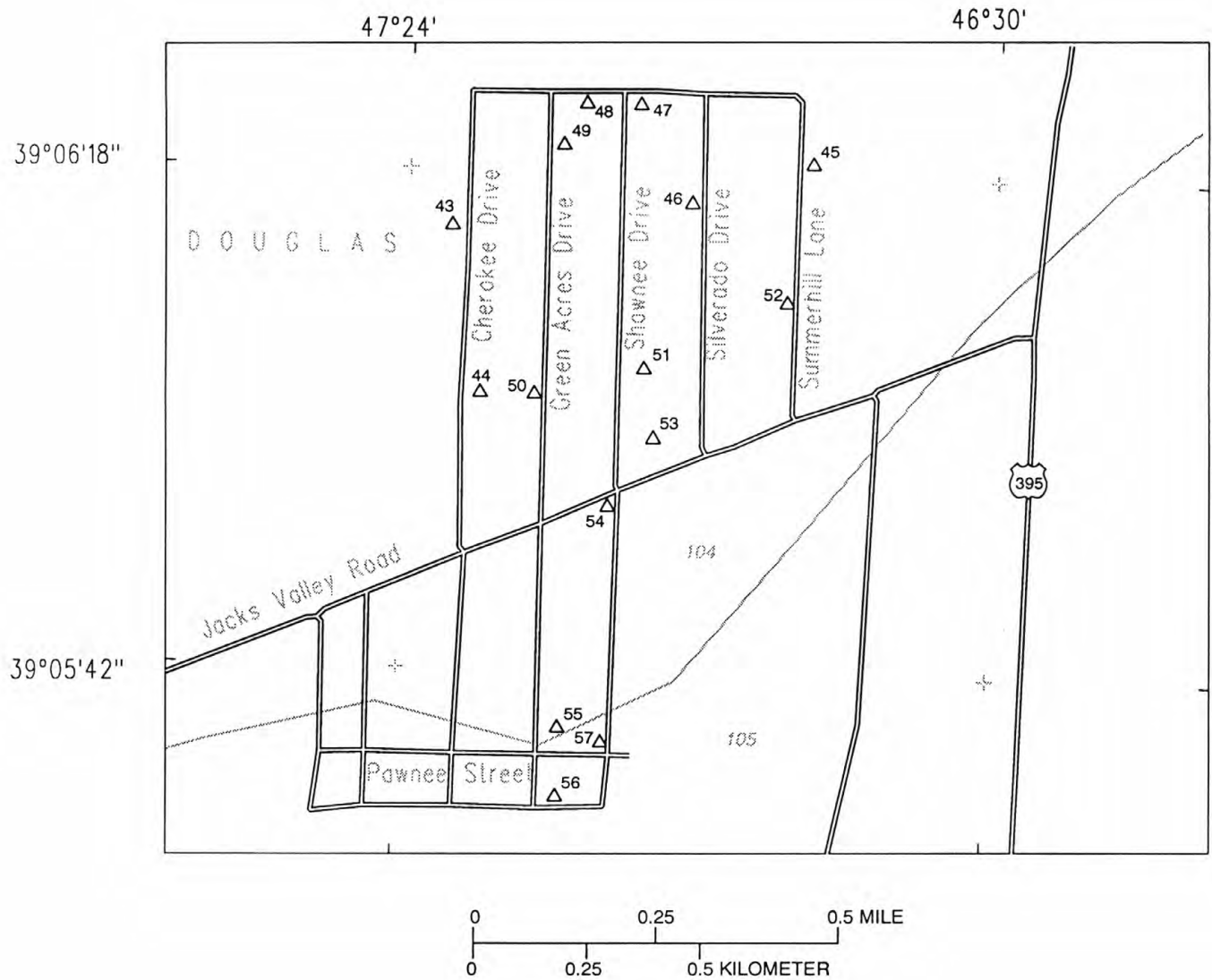
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)
08-14-92	0.20	426	375	0.58	<0.001	1.40	0.013	0.047	4
12-12-91	0.30	175	119	0.24	0.030	0.430	0.080	0.090	42
03-11-92	0.30	161	126	0.22	<0.010	0.500	0.060	0.080	43
06-25-92	0.30	138	103	0.19	0.030	0.340	0.090	0.100	48
08-13-92	0.30	160	120	0.22	0.005	0.430	0.045	0.089	85
12-11-91	5.5	3260	3110	4.43	0.010	<0.050	0.100	<0.010	12000
03-17-92	5.7	3300	3110	4.49	<0.010	<0.050	0.110	0.040	--
06-23-92	5.2	3320	3250	4.52	0.020	<0.050	0.140	0.100	12000
08-13-92	5.6	3330	3180	4.53	0.001	0.199	0.275	0.002	13000
12-11-91	1.5	489	380	0.67	<0.010	2.60	<0.010	0.020	<3
03-11-92	1.6	444	396	0.60	<0.010	2.90	<0.010	0.020	11
06-23-92	1.6	432	373	0.59	<0.010	2.70	0.020	0.020	<3
08-12-92	1.1	418	384	0.57	<0.001	2.90	0.009	0.021	<3
12-11-91	1.4	300	224	0.41	<0.010	1.40	<0.010	0.040	3
03-11-92	1.4	274	222	0.37	<0.010	1.30	<0.010	0.030	14
06-23-92	1.5	272	229	0.37	<0.010	1.40	0.010	0.030	3
08-12-92	1.0	316	232	0.43	<0.001	1.60	<0.002	0.037	<3
12-12-91	0.10	311	287	0.42	<0.010	3.20	<0.010	0.120	17
03-12-92	0.10	316	292	0.43	<0.010	3.10	<0.010	0.110	18
06-24-92	0.10	342	303	0.47	<0.010	3.20	0.010	0.130	7
08-13-92	0.10	314	299	0.43	0.002	3.50	0.010	0.138	10
12-12-91	<0.10	344	285	0.47	<0.010	6.10	<0.010	0.060	<21
03-11-92	0.10	225	198	0.31	<0.010	2.30	<0.010	0.070	10
06-24-92	<0.10	282	242	0.38	<0.010	4.50	0.050	0.100	<3
08-13-92	<0.10	294	241	0.40	<0.001	4.70	0.010	0.102	4

GROUND-WATER RECORDS

LOCATION OF GROUND-WATER QUALITY SAMPLING SITES (figure 27)

Site number	Local number				Latitude	Longitude	Site identification
43	104	N14	E19	01DADC1	390614	1194720	390614119472001
44	104	N14	E19	01DDDA1	390602	1194717	390602119471701
45	104	N14	E20	06CAAC1	390619	1194647	390619119464701
46	104	N14	E20	06CACB1	390616	1194658	390616119465801
47	104	N14	E20	06CBAB2	390623	1194703	390624119465901
48	104	N14	E20	06CBBA1	390623	1194708	390623119470801
49	104	N14	E20	06CBBD1	390620	1194710	390620119471001
50	104	N14	E20	06CCCB1	390602	1194712	390602119471201
51	104	N14	E20	06CCDA1	390604	1194702	390604119470201
52	104	N14	E20	06CDAB1	390609	1194649	390609119464901
53	104	N14	E20	07BBAA1	390559	1194701	390559119470101
54	104	N14	E20	07BBAC1	390554	1194705	390554119470501
55	104	N14	E20	07BCCA1	390538	1194709	390538119470901
56	104	N14	E20	07BCCD1	390533	1194709	390533119470901
57	104	N14	E20	07BCDB1	390537	1194705	390537119470501



..... MINOR HYDROGRAPHIC AREA BOUNDARY

△⁵⁵ ACTIVE GROUND-WATER QUALITY SITE--Sampling site number refers to accompanying table

105 NUMBER REFERS TO VALLEY NUMBER--See figure 23

FIGURE 27.--Ground-water quality sites, northwestern Douglas County.

QUALITY OF GROUND WATER

DOUGLAS COUNTY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL WELL NUMBER			DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)
390614119472001		104	N14	E19	01DADC1	09-08-92	1440	48.00	144
390602119471701		104	N14	E19	01DDDA1	09-09-92	1400	28.40	201
390619119464701		104	N14	E20	06CAAC1	09-10-92	1335	--	280
390616119465801		104	N14	E20	06CACB1	09-04-92	1425	54.00	354
390624119465901		104	N14	E20	06CBAB2	09-09-92	1130	38.10	272
390623119470801		104	N14	E20	06CBBA1	09-08-92	1230	--	272
390620119471001		104	N14	E20	06CBBD1	09-08-92	1140	24.80	210
390602119471201		104	N14	E20	06CCCB1	09-08-92	1345	49.50	266
390604119470201		104	N14	E20	06CCDA1	09-09-92	1350	30.80	610
390609119464901		104	N14	E20	06CDAB1	09-10-92	1235	--	299
390559119470101		104	N14	E20	07BBAA1	09-03-92	1255	--	354
390554119470501		104	N14	E20	07BBAC1	09-02-92	1430	--	288
390538119470901		104	N14	E20	07BCCA1	09-04-92	1255	163.80	329
390533119470901		104	N14	E20	07BCCD1	09-03-92	1430	206.00	254
390537119470501		104	N14	E20	07BCDB1	09-02-92	1550	198.80	326
DATE	TEMPER- ATURE WATER (DEG C)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)
09-08-92	14.5	1.6	1.8	0.20	109	0.050	2.20	0.030	0.020
09-09-92	14.5	14	9.1	0.80	145	<0.010	1.30	0.010	0.040
09-10-92	17.0	17	12	0.70	207	<0.010	1.40	0.010	0.140
09-04-92	15.5	18	17	0.70	258	<0.010	--	0.020	0.110
09-09-92	15.0	15	13	<0.10	186	<0.010	<0.005	0.020	0.040
09-08-92	15.0	16	14	0.60	178	<0.010	4.60	0.020	0.030
09-08-92	14.5	14	9.0	0.70	146	<0.010	<0.005	0.030	0.070
09-08-92	15.0	27	13	2.2	192	<0.010	0.009	0.020	0.040
09-09-92	13.5	37	44	0.60	420	<0.010	19.0	0.020	0.150
09-10-92	15.0	13	12	1.2	210	<0.010	3.40	0.030	0.030
09-03-92	16.0	16	17	1.0	237	<0.010	5.20	0.020	0.070
09-02-92	17.5	18	12	1.6	209	<0.010	0.846	0.020	0.030
09-04-92	15.0	17	16	0.80	209	<0.010	<0.005	0.020	0.030
09-03-92	18.5	16	11	0.80	149	0.010	0.216	0.010	0.020
09-02-92	16.5	16	13	1.0	192	<0.010	1.80	0.020	0.010

QUALITY OF GROUND WATER

485

DOUGLAS COUNTY--Continued

Locations of following sites are shown in figure 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL WELL NUMBER			DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)
385604119435601105		N12 E20 4ADA	1		08-19-92	1045	300	456	7.1	24.5	12.5
385414119425401105		N12 E20 15ADD	1		08-17-92	1415	375	236	--	29.5	13.0
385719119454701105		N13 E20 29CDC	1		08-20-92	1415	400	315	7.2	34.0	15.5
390503119463501105		N14 E20 18ABAB1			08-19-92	1445	425	247	9.8	29.5	21.0
384333119301701106		N10 E22 15DCB	1		08-18-92	1100	--	520	7.2	26.0	16.0
DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED AS CL)	FLUO- RIDE, DIS- SOLVED AS F)	SILICA, DIS- SOLVED (MG/L STO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
08-19-92	190	51	14	23	0.7	3.1	33	11	<0.10	28	266
08-17-92	84	23	6.4	14	0.7	1.8	23	6.4	0.10	27	174
08-20-92	130	38	7.7	16	0.6	2.9	18	6.3	0.10	27	196
08-19-92	18	7.1	0.17	48	5	0.50	16	13	0.70	17	180
08-18-92	230	68	15	21	0.6	1.2	72	3.4	0.10	25	322
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)
08-19-92	281	0.36	<0.001	1.30	0.015	0.016	1	130	<10	1	<10
08-17-92	155	0.24	<0.001	0.530	0.007	0.029	2	56	<10	3	<10
08-20-92	206	0.27	<0.001	0.707	0.003	0.023	8	100	<10	2	<10
08-19-92	159	0.24	<0.001	0.738	0.006	0.017	14	14	<10	<1	<10
08-18-92	326	0.44	<0.001	1.20	0.016	0.045	1	69	<10	<1	<10
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	RADON 222 TOTAL (PCI/L)
08-19-92	<3	<100	<1	<0.1	<1	<1.0	9	3.7	5.8	4.4	1300
08-17-92	8	<100	<1	<0.1	<1	<1.0	10	1.4	2.3	1.8	1200
08-20-92	<3	<100	14	0.3	<1	<1.0	<3	5.2	5.2	3.9	960
08-19-92	5	<100	<1	<0.1	<1	<1.0	3	3.3	2.4	1.8	1100
08-18-92	<3	<100	<1	<0.1	<1	<1.0	<3	2.3	2.5	1.9	1100
DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	BENZENE TOTAL (UG/L)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L)	BROMO- FORM TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	CHLORO- BENZENE TOTAL (UG/L)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L)	CHLORO- ETHANE TOTAL (UG/L)	CHLORO- FORM TOTAL (UG/L)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L)
08-19-92	<0.1	<0.010	<0.2	<0.2	<0.2	<0.1	<0.20	<0.2	<0.2	<0.2	<0.2
08-17-92	<0.1	<0.010	<0.2	<0.2	<0.2	<0.1	<0.20	<0.2	<0.2	<0.2	<0.2
08-20-92	<0.1	<0.010	<0.2	<0.2	<0.2	<0.1	<0.20	<0.2	<0.2	<0.2	<0.2
08-19-92	<0.1	<0.010	<0.2	<0.2	<0.2	<0.1	<0.20	<0.2	<0.2	<0.2	<0.2
08-18-92	<0.1	<0.010	<0.2	<0.2	<0.2	<0.1	<0.20	<0.2	<0.2	<0.2	<0.2
DATE	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L)	ENDO- SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHYL- BENZENE TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)
08-19-92	<0.010	<0.010	<0.010	<0.010	<0.2	<0.010	<0.010	<0.2	<0.010	<0.010	<0.010
08-17-92	<0.010	<0.010	<0.010	<0.010	<0.2	<0.010	<0.010	<0.2	<0.010	<0.010	<0.010
08-20-92	<0.010	<0.010	<0.010	<0.010	<0.2	<0.010	<0.010	<0.2	<0.010	<0.010	<0.010
08-19-92	<0.010	<0.010	<0.010	<0.010	<0.2	<0.010	<0.010	<0.2	<0.010	<0.010	<0.010
08-18-92	<0.010	<0.010	<0.010	<0.010	<0.2	<0.010	<0.010	<0.2	<0.010	<0.010	<0.010

QUALITY OF GROUND WATER
DOUGLAS COUNTY--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL- BROMIDE TOTAL (UG/L)	METHYL- CHLO- RIDE TOTAL (UG/L)	METHYL- ENE CHLO- RIDE TOTAL (UG/L)	MIREX, TOTAL (UG/L)	NAPH- THA- LENES, POLY- CHLOR. TOTAL (UG/L)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L)	TRI- CHLORO- FLUORO- METHANE TOTAL (UG/L)	TOLUENE TOTAL (UG/L)
08-19-92	<0.01	<0.2	<0.2	<0.2	<0.01	<0.10	<0.2	<0.2	<0.2	<0.2
08-17-92	<0.01	<0.2	<0.2	<0.2	<0.01	<0.10	<0.2	<0.2	<0.2	<0.2
08-20-92	<0.01	<0.2	<0.2	<0.2	<0.01	<0.10	<0.2	<0.2	<0.2	<0.2
08-19-92	<0.01	<0.2	<0.2	<0.2	<0.01	<0.10	<0.2	<0.2	<0.2	<0.2
08-18-92	<0.01	<0.2	<0.2	<0.2	<0.01	<0.10	<0.2	<0.2	<0.2	<0.2

DATE	PER- THANE TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	STYRENE TOTAL (UG/L)	VINYL CHLO- RIDE TOTAL (UG/L)
08-19-92	<0.1	<1	<0.2	<1.0	<0.01	<0.01	<0.01	<0.01	<0.2	<0.2
08-17-92	<0.1	<1	<0.2	<1.0	<0.01	<0.01	<0.01	<0.01	<0.2	<0.2
08-20-92	<0.1	<1	<0.2	<1.0	<0.01	<0.01	<0.01	<0.01	<0.2	<0.2
08-19-92	<0.1	<1	<0.2	<1.0	<0.01	<0.01	<0.01	<0.01	<0.2	<0.2
08-18-92	<0.1	<1	<0.2	<1.0	<0.01	<0.01	<0.01	<0.01	<0.2	<0.2

THIS IS A
BLANK PAGE

GROUND-WATER RECORDS

LOCATION OF GROUND-WATER QUALITY SAMPLING SITES (figure 28)

Site number	Local number	Latitude	Longitude	Site identification
9	90 N12 E18 03ABA 1	385617	1195817	385651119581701
10	90 N12 E18 03BCC 1	385538	1195850	385538119585001
11	90 N12 E18 05AADD1	385559	1200013	385559120001301
12	90 N12 E18 09ABC 1	385423	1195936	385423119593601
13	90 N12 E18 29CBD 1	385118	1200106	385118120010601
14	90 N13 E17 25CDA 1	385623	1200302	385623120030201
15	90 N13 E18 10BDBD1	390022	1195652	390022119565201
16	90 N13 E18 16CCC 1	385902	1195713	385902119571301
17	90 N13 E18 22BAA 1	385857	1195642	385857119564201
18	90 N13 E18 22CDD 1	385806	1195644	385808119564201
19	90 N13 E18 22DCA 1	385816	1195630	385816119563001
20	90 N13 E18 23CBB 1	385824	1195604	385824119560401
21	90 N13 E18 27BDA 1	385748	1195642	385742119565701
22	90 N13 E18 33CAD 1	385644	1195746	385644119574601
23	90 N14 E16 01CADD1	390510	1200941	390510120094101
24	90 N14 E17 18AADB1	390354	1200807	390354120080701
25	90 N14 E17 18BBCA1	390352	1200902	390352120090201
26	90 N14 E17 29ACB 1	390203	1200727	390203120072701
27	90 N14 E17 29ADC 1	390157	1200705	390157120070501
28	90 N14 E18 10ABD 1	390541	1195625	390541119562501
29	90 N14 E18 10ADA 1	390539	1195610	390539119561001
30	90 N14 E18 10ADB 1	390542	1195621	390542119562101
31	90 N14 E18 34CDD 1	390148	1195641	390148119564101
32	90 N15 E16 24CBCD1	390748	1201007	390748120100701
33	90 N15 E17 05ABBC1	391031	1200759	391031120075901
34	90 N15 E17 06BCC 1	391038	1200900	391038120090001
35	90 N15 E17 07CADB1	390935	1200840	390935120084001
36	90 N15 E17 18BCB 1	390902	1200903	390902120090301
37	90 N15 E18 02BBDA1	391158	1195550	391158119555001
38	90 N16 E17 15CCAA1	391355	1200452	391552120045101
39	90 N16 E18 10DDC 1	391533	1195630	391533119563001
40	90 N16 E18 15AAB 1	391525	1195631	391525119563101
41	90 N16 E18 15DBD 1	391456	1195630	391456119563001
42	90 N16 E18 19BCA 1	391406	1195956	391406119595601

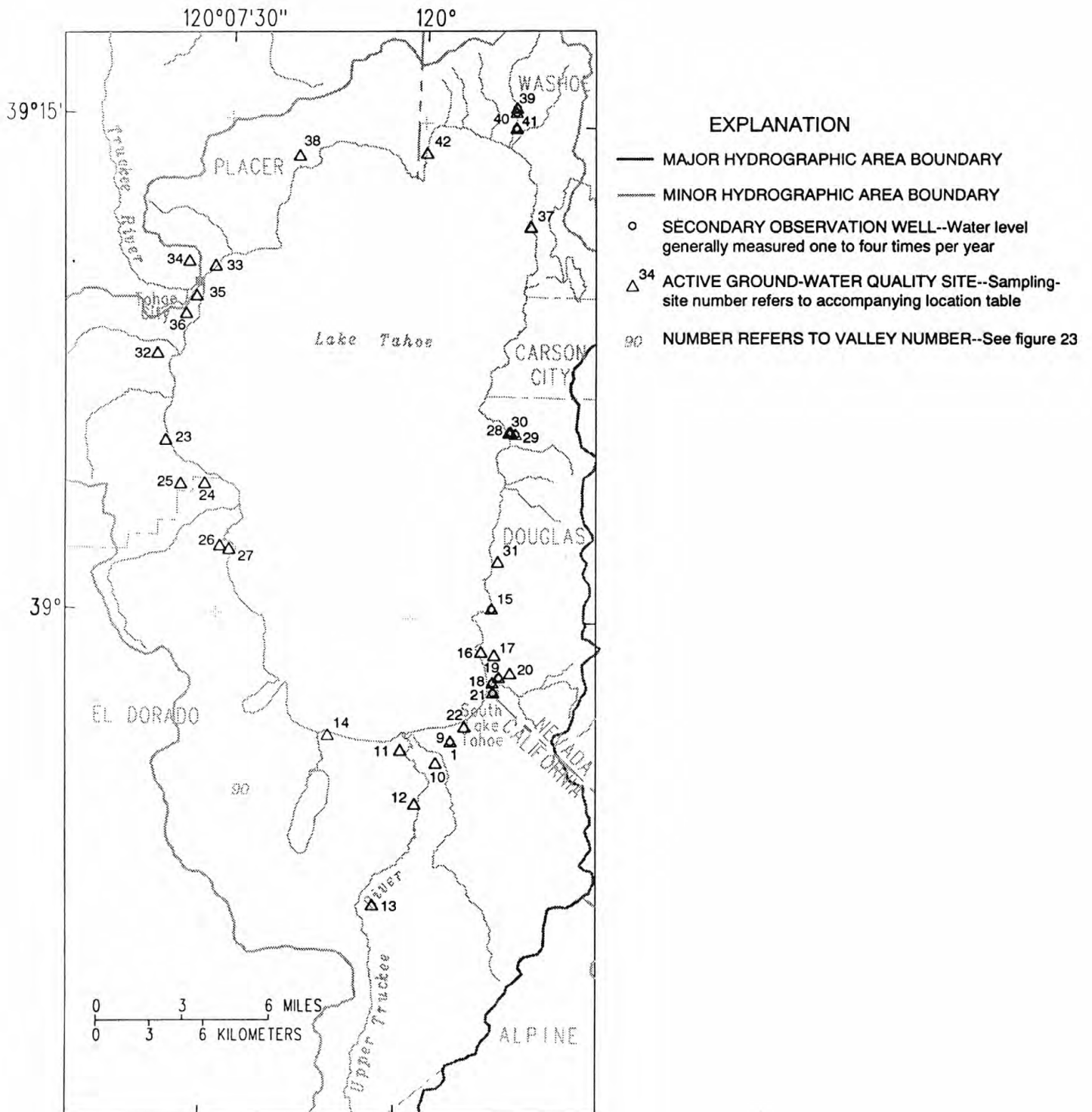


FIGURE 28.--Ground-water quality sites, Lake Tahoe basin.

QUALITY OF GROUND WATER

LAKE TAHOE BASIN

Water-quality measurements in the following table were made during a ground-water study throughout the Lake Tahoe Basin. Samples were analyzed by the University of California, Davis.

WATER-QUALITY DATA, WATER YEARS OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL WELL NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	DEPTH OF WELL, TOTAL (FEET)	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)
385651119581701	90	N12 E18 03ABA 1	03-18-92	1215	33.27	125	--	91	6.2
385538119585001	90	N12 E18 03BCC 1	03-18-92	1100	--	--	--	161	6.2
385559120001301	90	N12 E18 05AADD1	03-18-92	0945	--	318	--	108	6.8
385423119593601	90	N12 E18 09ABC 1	05-19-92	1030	--	380	--	108	9.0
385118120010601	90	N12 E18 29CBD 1	05-19-92	0930	--	268	--	155	8.6
385623120030201	90	N13 E17 25CDA 1	05-19-92	1400	--	80	--	97	7.1
390022119565201	90	N13 E18 10BDBD1	06-03-92	1315	19.60	31	--	386	6.4
385902119571301	90	N13 E18 16CCC 1	03-24-92	1045	--	58	--	161	7.1
385857119564201	90	N13 E18 22BAA 1	03-24-92	1200	--	200	--	301	6.7
385808119564201	90	N13 E18 22CDD 1	05-07-92	1600	1.89	8	--	313	6.2
385816119563001	90	N13 E18 22DCA 1	05-07-92	1515	15.77	24	--	195	6.3
385824119550401	90	N13 E18 23CBB 1	05-07-92	1230	--	--	0.20	139	7.1
385742119565701	90	N13 E18 27BDA 1	05-07-92	1345	14.16	23	--	305	6.6
385644119574601	90	N13 E18 33CAD 1	03-18-92	1400	--	76	--	282	6.8
			05-19-92	1200	--	76	--	247	6.9
390510120094101	90	N14 E16 01CADD1	05-05-92	1130	--	114	--	109	6.5
390354120080701	90	N14 E17 18AADB1	05-05-92	1000	--	--	--	105	7.0
390352120090201	90	N14 E17 18BBCA1	05-05-92	1100	--	323	--	108	6.8
390203120072701	90	N14 E17 29ACB 1	05-11-92	1030	--	365	--	109	7.6
390157120070501	90	N14 E17 29ADC 1	05-11-92	0915	--	320	--	106	7.0
390541119562501	90	N14 E18 10ABD 1	05-04-92	1300	20.61	28	--	237	6.3
390539119561001	90	N14 E18 10ADA 1	05-04-92	1030	11.11	27	--	252	6.8
390542119562101	90	N14 E18 10ADB 1	05-04-92	1130	22.51	31	--	326	6.5
390148119564101	90	N14 E18 34CDD 1	03-24-92	1320	--	180	--	229	6.6
390748120100701	90	N15 E16 24CBCD1	03-25-92	1115	--	--	--	169	7.0
390748120100701	90	N15 E16 24CBCD1	05-05-92	1230	--	--	--	162	7.7
391031120075901	90	N15 E17 05ABBC1	05-05-92	1500	--	160	--	157	7.2
391038120090001	90	N15 E17 06BCC 1	05-20-92	1100	--	223	--	117	7.6
390935120084001	90	N15 E17 07CADB1	05-05-92	1330	--	265	--	182	7.5
390902120090301	90	N15 E17 18BCB 1	05-11-92	1215	--	445	--	164	7.1
391158119555001	90	N15 E18 02BBDA1	06-23-92	0900	--	110	--	151	6.4
391552120045101	90	N16 E17 15CCAA1	03-19-92	1000	--	218	--	163	7.4
391533119563001	90	N16 E18 10DDC 1	06-24-92	1020	39.78	46	--	227	6.1
391525119563101	90	N16 E18 15AAB 1	06-22-92	1230	22.57	39	--	280	6.0
391456119563001	90	N16 E18 15DBD 1	06-22-92	1400	13.84	14	--	347	6.1
391406119595601	90	N16 E18 19BCA 1	03-31-92	1330	75.00	96	--	204	6.3

QUALITY OF GROUND WATER

491

LAKE TAHOE BASIN--Continued

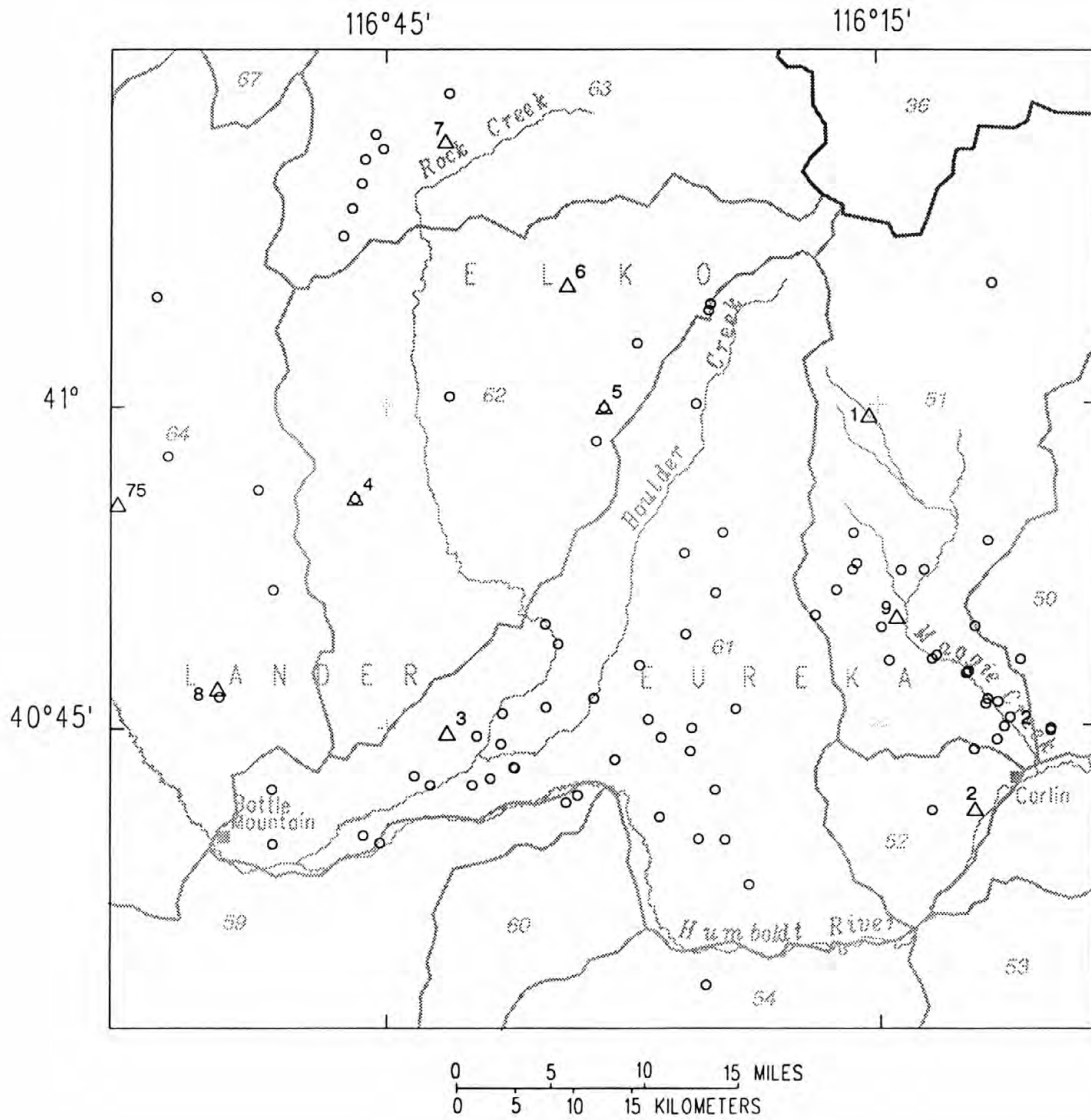
WATER-QUALITY DATA, WATER YEARS OCTOBER 1991 TO SEPTEMBER 1992

DATE	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS HYDRO. + ORTHO DIS- SOLVED (MG/L AS P)	IRON, BIO. REACTIVE DIS- SOLVED (UG/L AS FE)
03-18-92	8.0	9.0	<0.001	0.282	<0.004	<0.04	0.020	0.017	0.02	19
03-18-92	7.5	6.5	<0.001	1.99	<0.004	<0.04	0.020	0.013	0.01	22
03-18-92	8.5	10.0	<0.001	0.371	<0.004	<0.04	0.025	0.019	0.02	1.9
05-19-92	16.5	11.0	<0.001	0.008	0.011	<0.04	0.079	0.074	0.08	17
05-19-92	15.0	14.0	<0.001	0.094	<0.004	<0.04	0.022	0.018	0.01	2.3
05-19-92	17.5	8.0	<0.001	0.049	<0.004	<0.04	0.045	0.040	0.04	120
06-03-92	26.5	10.0	<0.001	7.90	<0.004	0.09	0.031	0.016	0.01	<1.0
03-24-92	9.0	10.0	<0.001	0.470	0.009	<0.04	0.013	0.007	<0.01	26
03-24-92	12.5	8.5	0.002	0.022	<0.004	<0.04	0.014	0.006	<0.01	7.7
05-07-92	20.0	11.0	<0.001	<0.004	<0.004	0.08	0.010	0.003	<0.01	200
05-07-92	24.5	11.0	<0.001	10.0	<0.004	0.08	0.015	0.009	0.01	4.7
05-07-92	19.0	9.0	<0.001	0.112	<0.004	<0.04	0.025	0.020	0.02	2.4
05-07-92	22.0	9.5	<0.001	<0.004	<0.004	0.07	0.026	0.018	0.02	5.0
03-18-92	12.0	15.5	<0.001	1.28	<0.004	<0.04	0.028	0.019	0.02	17
05-19-92	16.5	17.5	<0.001	0.931	<0.004	<0.04	0.032	0.022	0.02	5.8
05-05-92	16.0	7.0	<0.001	0.080	<0.004	<0.04	0.032	0.024	0.03	2.2
05-05-92	15.5	7.0	<0.001	0.066	<0.004	<0.04	0.040	0.031	0.03	5.0
05-05-92	17.5	6.5	<0.001	0.034	<0.004	<0.04	0.035	0.030	0.03	5.2
05-11-92	18.0	9.5	<0.001	0.004	0.104	0.12	0.381	0.364	0.37	110
05-11-92	18.0	7.5	<0.001	0.074	<0.004	<0.04	0.118	0.110	0.11	3.8
05-04-92	15.5	9.5	0.003	2.44	0.004	0.11	0.047	0.027	0.04	10
05-04-92	12.0	8.0	<0.001	0.009	0.008	0.04	0.080	0.073	0.08	16
05-04-92	14.5	9.0	0.001	0.062	0.011	0.05	0.052	0.040	0.04	32
03-24-92	11.0	8.5	<0.001	0.231	<0.004	<0.04	0.011	0.005	<0.01	25
03-25-92	10.0	6.5	<0.001	0.021	<0.004	<0.04	0.101	0.094	0.09	1.4
05-05-92	21.5	6.5	<0.001	0.017	<0.004	<0.04	0.104	0.095	0.09	3.4
05-05-92	25.5	10.0	0.001	0.041	<0.004	<0.04	0.060	0.054	0.05	19
05-20-92	10.0	6.5	<0.001	0.147	<0.004	<0.04	0.056	0.053	0.05	<1.0
05-05-92	22.5	10.5	0.001	0.013	0.050	0.08	0.108	0.099	0.10	6.8
05-11-92	20.5	6.0	<0.001	0.519	<0.004	<0.04	0.069	0.057	0.06	58
06-23-92	24.5	9.5	<0.001	0.015	<0.004	0.06	0.050	0.031	0.03	170
03-19-92	8.0	7.5	<0.001	0.039	<0.004	<0.04	0.033	0.025	0.02	1.9
06-24-92	23.5	11.0	0.005	1.90	<0.004	1.0	0.057	0.033	0.04	71
06-22-92	26.0	10.0	0.001	0.142	<0.004	0.15	0.057	0.023	0.02	14
06-22-92	30.5	9.5	0.003	0.007	0.043	0.29	0.036	0.005	<0.01	1500
03-31-92	10.0	9.0	<0.001	0.407	0.006	0.05	0.038	0.019	0.02	120

GROUND-WATER RECORDS

LOCATION OF GROUND-WATER QUALITY SAMPLING SITES (figure 29)

Site number	Local number				Latitude	Longitude	Site identification
9	51	N34	E51	15BDD 1	405010	1161341	405010116134101
1	51	N36	E51	20DDBA1	405929	1161532	405929116153201
2	52	N32	E52	05CDBA1	404104	1160914	404104116091401
3	61	N33	E47	09CBDC1	404445	1164119	404445116411901
4	62	N35	E46	10BACC1	405542	1164654	405542116465401
5	62	N36	E48	14BCCB1	405956	1163141	405956116314101
6	62	N37	E48	09CCBD1	410536	1163356	410536116335601
7	63	N38	E47	05ABBC1	411217	1164122	411217116412201
8	64	N34	E45	32ADDD1	404648	1165516	404648116551601
75	64	N35	E45	10BACD1	405543	1165341	405543116534101



EXPLANATION

- MAJOR HYDROGRAPHIC AREA BOUNDARY
- MINOR HYDROGRAPHIC AREA BOUNDARY
- ² SECONDARY OBSERVATION WELL--Water level generally measured one to four times per year. Number indicates more than one well at site
- △³ ACTIVE GROUND-WATER QUALITY SITE--Sampling number refers to accompanying table
- 50 NUMBER REFERS TO VALLEY NUMBER--See figure 23

FIGURE 29.--Observation wells and ground-water quality sites in Carlin area, northeastern Nevada.

MISCELLANEOUS SITES

CARLIN TREND

Discharge measurements in the following table were made at Carlin Trend Network sites in northeastern Nevada.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Humboldt River above Vivian Siding, near Carlin, Nev. (10321100)	--	Lat 40°43'40", long 116°02'20", in SE1/4SW1/4 sec.20, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, about 0.7 mi east of Vivian, and about 2.8 mi east of Carlin.	1991-92	7-29-92	12.5
Susie Creek near Huntsman Ranch near Carlin, Nev.	Humboldt River	Lat 40°48'32", long 116°02'46", in NE1/4NE1/4 sec.30, T.34 N., R.53 E., Elko County, Hydrologic Unit 16040101, about 2.6 mi downstream from Huntsman Ranch, and about 8.0 mi northeast of Carlin.	1992	4-16-92	3.0
Susie Creek at Carlin, Nev. (10321590)	Humboldt River	Lat 40°43'34", long 116°04'37", in SE1/4SW1/4 sec.24, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, at Old U.S. Highway 40, about 1.7 mi east of Carlin.	1989-92	10-24-91 4-16-92 4-29-92 7-29-92	0.36 1.40 .97 0
Humboldt River above Maggie Creek, near Carlin, Nev. (10321600)	--	Lat 40°42'53", long 116°04'54", in NW1/4SW1/4 sec.25, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, about 0.4 mi upstream from Maggie Creek, and about 1.4 mi east of Carlin.	1988-92	7-29-92	12.9
Beaver Creek above Maggie Creek, near Tuscarora, Nev.	Maggie Creek	Lat 41°02'08", long 116°07'23", in SW1/4SW1/4 sec.3, T.36 N., R.52 E., Elko County, Hydrologic Unit 16040101, about 200 ft upstream of Maggie Creek, and about 19.0 mi southeast of Tuscarora.	1991-92	10-24-91	0
Maggie Creek below Beaver Creek, near Tuscarora, Nev.	Humboldt River	Lat 41°01'11", long 116°07'34", in SW1/4SW1/4 sec.10, T.36 N., R.52 E., Elko County, Hydrologic Unit 16040101, about 1.1 mi downstream of confluence of Beaver Creek, about 1.8 mi northeast of Red House Ranch, and about 20.0 mi southeast of Tuscarora.	1991-92	10-24-91 8-01-92	.85 1.48
Maggie Creek tributary at Red House Ranch near Carlin, Nev.	Maggie Creek	Lat 41°00'12", long 116°09'27", in SW1/4 sec.17, T.36 N., R.52 E., Elko County, Hydrologic Unit 16040101, about 0.1 mi downstream from Red House Ranch, about 0.2 mi north of Elko-Eureka county line, and about 24.0 mi northeast of Carlin.	1992	10-24-91	.08
Haskell Creek at Maggie Creek Road Ranch near Tuscarora, Nev.	Maggie Creek	Lat 40°59'51", long 116°09'38", in SE1/4NE1/4 sec.19, T.36 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.5 mi southwest from Red House Ranch, and about 21.5 mi southwest of Tuscarora.	1991-92	10-24-91	.19
Maggie Creek tributary below Haskell Creek, near Carlin, Nev.	Maggie Creek	Lat 40°59'00", long 116°10'00", in SW1/4NE1/4 sec.30, T.36 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.2 mi upstream of Maggie Creek, about 1.4 mi southwest of Red House Ranch, and about 18.5 mi northwest of Carlin.	1991-92	10-24-91	.04
Maggie Creek above Coyote Creek, near Carlin, Nev. (1034790)	Humboldt River	Lat 40°58'01", long 116°10'08", in SW1/4NE1/4 sec.31, T.36 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 1.6 mi upstream of confluence of Coyote Creek, and about 17.4 mi northwest of Carlin.	1991-92	10-24-91 8-01-92	.58 .30
Spring Creek at Maggie Creek Road, near Carlin, Nev.	Maggie Creek	Lat 39°57'18", long 116°10'14", in SE1/4NW1/4 sec.6, T.35 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.5 mi upstream of confluence of Maggie Creek, and about 16.7 mi northwest of Carlin.	1991-92	10-24-91	.46

MISCELLANEOUS SITES
CARLIN TREND--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Coyote Creek at Maggie Creek Road, near Carlin, Nev.	Maggie Creek	Lat 39°57'09", long 116°10'19", in SE1/4NW1/4 sec.6, T.35 N., R.52 E., Eureka County, Hydrologic Unit 16040101, at Maggie Creek Road, about 0.7 mi upstream of Maggie Creek, and about 16.5 mi northwest of Carlin.	1991-92	10-24-91	0
Jack Creek above Maggie Creek, near Carlin, Nev.	Maggie Creek	Lat 40°55'01", long 116°10'48", in SE1/4SE1/4 sec.13, T.35 N., R.51 E., Eureka County, Hydrologic Unit 16040101, at Maggie Creek Road, about 0.7 mi upstream of Maggie Creek, and about 13.5 mi northwest of Carlin.	1991-92	10-24-91	0
Maggie Creek above Cottonwood Creek near Carlin, Nev.	Humboldt River	Lat 40°53'37", long 116°10'29", in SW1/4NW1/4 sec.30, T.35 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.3 mi upstream of confluence of Cottonwood Creek, and about 11.9 mi northwest of Carlin.	1991-92	10-24-91 8-01-92	3.18 .31
Cottonwood Creek above Maggie Creek, near Carlin, Nev.	Maggie Creek	Lat 40°53'33", long 116°10'40", in NW1/4SW1/4 sec.30, T.35 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 100 ft upstream of Maggie Creek, and about 11.8 mi northwest of Carlin.	1991-92	10-24-91	0
Simon Creek above Maggie Creek, near Carlin, Nev.	Maggie Creek	Lat 40°50'36", long 116°13'25", in SW1/4SE1/4 sec.10, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, about 0.4 mi upstream of Maggie Creek, and about 10.8 mi northwest of Carlin.	1991-92	10-24-91	.43
Maggie Creek above Maggie Canyon, near Carlin, Nev. (10321940)	Humboldt River	Lat 40°49'30", long 116°13'22", in SE1/4NE1/4 sec.22, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, about 1.0 mi south of confluence of Simon Creek, and about 9.8 mi northwest of Carlin.	1988-92	10-24-91 8-01-92	5.78 .56
Maggie Creek in Maggie Creek Canyon, near Carlin, Nev. (10321945)	Humboldt River	Lat 40°48'29", long 116°12'22", in SW1/4NE1/4 sec.26, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, in Maggie Creek Canyon along Maggie Creek Road, about 3.1 mi from Elko-Eureka County line, and about 8.4 mi northwest of Carlin.	1988-92	10-24-91	4.22
Maggie Creek at Maggie Creek Canyon, near Carlin, Nev. (10321950)	Humboldt River	Lat 40°48'08", long 116°11'53", in NE1/4SE1/4 sec.26, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, in Maggie Creek Canyon along Maggie Creek Road, about 2.6 mi from Elko-Eureka County line, and about 8.3 mi northwest of Carlin.	1988-92	10-24-91 8-01-92	2.06 0
Maggie Creek near Eureka-Elko County line near Carlin, Nev. (10321955)	Humboldt River	Lat 40°47'31", long 116°09'33", in SW1/4NW1/4 sec.32, T.34 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.1 mi west of Elko- Eureka County line, and about 5.8 mi northwest of Carlin.	1988-92	10-24-91	0
Maggie Creek at Huntsman Ranch Road, near Carlin, Nev. (10321965)	Humboldt River	Lat 40°46'10", long 116°08'13", in SW1/4SW1/4 sec.4, T.33 N., R.52 E., Eureka County, Hydrologic Unit 16040101, at Huntsman Ranch Road crossing, about 4.0 mi northwest of Carlin.	1988-92	10-24-91	0
Maggie Creek, near Carlin, Nev. (10321970)	Humboldt River	Lat 40°45'36", long 116°07'47", in NW1/4SE1/4 sec.9, T.33 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.8 mi southeast of Huntsman Ranch Road, and about 3.2 mi northwest of Carlin.	1988-92	10-24-91	1.02

MISCELLANEOUS SITES
CARLIN TREND--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Maggie Creek at Pipeline Road, near Carlin, Nev. (10321975)	Humboldt River	Lat 40°44'20", long 116°06'11", in NE1/4NE1/4 sec.22, T.33 N., R.52 E., Eureka County, Hydrologic Unit 16040101, at Pipeline Road, about 1.7 mi north of Carlin.	1988-92	10-24-91	0
Maggie Creek at Carlin, Nev. (10322000)	Humboldt River	Lat 40°43'10", long 116°05'40", in SW1/4NE1/4 sec.26, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, 100 ft upstream from highway bridge, 0.5 mi upstream from mouth, and 0.5 mi east of Carlin.	1992	4-28-92 8-01-92	.15 0
Humboldt River below Maggie Creek at Carlin, Nev. (10322100)	--	Lat 40°42'37", long 116°05'41", in SW1/4SE1/4 sec.26, T.33 N., R.52 E., Eureka County, Hydrologic Unit 16040101, about 0.4 mi downstream from Maggie Creek, and about 0.6 mi southeast of Carlin.	1989-92	7-29-92	12.0
Humboldt River at Palisades, Nev. (10322500)	--	Lat 40°36'25", long 116°12'05", in SE1/4SE1/4 sec.35, T.32 N., R.51 E., Eureka County, Hydrologic Unit 16040101, about 0.5 mi downstream from Palisades, and about 0.8 mi upstream of Pine Creek. Drainage area 5010 mi ² , approximately.	1903-06, ⁺ 1912-92 ⁺	7-29-92 7-30-92	17.3 16.6
Pine Creek near Palisade, Nev. (10323000)	Humboldt River	Lat 40°35'45", long 116°10'25", in NW1/4SE1/4 sec.1, T.31 N., R.51 E., Eureka County, Hydrologic Unit 16040104, about 1.6 mi southeast of Palisade, and about 9.1 mi southwest of Carlin.	1913-14, ⁺ 1947-58, ⁺ 1992	7-29-92	1.40
Humboldt River at Rose Ranch near Beowawe, Nev. (10323080)	--	Lat 40°34'14", long 116°21'40", in SE1/4SW1/4 sec.8, T.31 N., R.50 E., in Eureka County, Hydrologic Unit 16040105, about 0.5 mi below confluence of Emigrant Canyon, and about 9.1 mi southwest of Palisade.	1991-92	7-30-92	12.1
Rose Canal near Dunphy, Nev. (10323375)	--	Lat 40°41'57", long 116°30'00", in SE1/4SE1/4 sec.25, T.33 N., R.48 E., Eureka County, Hydrologic Unit 16040105, about 300 ft south of Old U.S. Highway 40, and about 1.4 mi southeast of Dunphy.	1991-92	10-15-91 11-19-91 1-10-92 2-25-92 4-07-92 5-20-92 7-28-92 8-12-92 9-22-92	0 0 0 0 0 .15 0 0 0
Whitehouse Canal near Dunphy, Nev. (10323410)	--	Lat 40°42'16", long 116°31'08", in NE1/4SE1/4 sec.26, T.33 N., R.48 E., Eureka County, Hydrologic Unit 16040105, about 100 ft north of Humboldt River, and about 0.3 mi southeast of Dunphy.	1991-92	10-15-91 11-19-91 1-10-92 2-25-92 4-07-92 5-20-92 7-28-92 8-12-92 9-22-92	12.6 12.1 0 5.6 .07 0 0 0 0
Humboldt River at Old U.S. Highway 40 Bridge at Dunphy, Nev. (10323425)	--	Lat 40°42'20", long 116°31'48", in SE1/4SE1/4 sec.26, T.33 N., R.48 E., Eureka County, Hydrologic Unit 16040105, at Old U.S. Highway 40 Bridge, about 0.4 mi southwest of Dunphy.	1991-92 ⁺	7-30-92	2.72
Humboldt River near Argenta, Nev. (10323500)	--	Lat 40°40'45", long 116°38'45", in SE1/4NW1/4 sec.2, T.32 N., R.47 E., Lander County, Hydrologic Unit 16040105, about 3.0 mi east of Argenta, and about 15.5 mi east of Battle Mountain. Drainage area is 7490 mi ² , approximately.	1946-82, ⁺ 1990-92	7-30-92	0
Humboldt River below Slaven Ditch, near Argenta, Nev. (10323600)	--	Lat 40°39'19", long 116°45'17", in NW1/4SE1/4 sec.11, T.32 N., R.46 E., Lander County, Hydrologic Unit 16040105, about 2.3 mi southwest of Argenta, and about 7.6 mi northeast of Battle Mountain.	1980-83, ⁺ 1990-92	7-30-92	2.38

⁺ Operated as a continuous record station.

MISCELLANEOUS SITES
CARLIN TREND--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Rock Creek at State Highway 18 near Midas, Nev.	Humboldt River	Lat 41°12'41", long 116°41'02", in NE1/4SE1/4 sec.32, T.39 N., R.47 E., Elko County, Hydrologic Unit 16040106, about 6.3 mi southeast of Midas, and about 7.8 mi west of Willow Creek Reservoir.	1992	7-31-92	0
Willow Creek below Willow Creek Reservoir near Tuscarora, Nev.	Rock Creek	Lat 41°13'47", long 116°34'11", in SE1/4NE1/4 sec.29, T.39 N., R.48 E., Elko County, Hydrologic Unit 16040106, about 1.6 mi downstream from Willow Creek Reservoir, and about 19.5 mi west of Tuscarora.	1992	10-23-91	5.35
Rock Creek below Willow Creek near Midas, Nev.	Humboldt River	Lat 41°08'33", long 116°42'57", in SW1/4NW1/4 sec.30, T.38 N., R.47 E., Elko County, Hydrologic Unit 16040106, about 1.6 mi downstream of Willow Creek, and about 7.9 mi southeast of Midas.	1992	10-23-91	0
Rock Creek Irrigation Diversion above Rock Creek Ranch, near Midas, Nev.	--	Lat 41°04'44", long 116°43'08", in SW1/4SW1/4 sec.18, T.37 N., R.47 E., Elko County, Hydrologic Unit 16040106, about 0.7 mi northeast of Rock Creek Ranch, and about 12.2 mi southeast of Midas.	1991-92	8-02-92	.02
Rock Creek above Rock Creek Ranch, near Midas, Nev. (10324000)	Humboldt River	Lat 41°04'41", long 116°43'10", in SW1/4SW1/4 sec.18, T.37 N., R.47 E., Elko County, Hydrologic Unit 16040106, about 0.6 mi northeast of Rock Creek Ranch, and about 12.2 mi southeast of Midas.	1915-17 1991-92	8-02-92	3.51
Rock Creek below Rock Creek Ranch near Midas, Nev.	Humboldt River	Lat 41°02'52", long 116°43'21", in NE1/4NE1/4 sec.36, T.37 N., R.46 E., Elko County, Hydrologic Unit 16040106, about 1.6 mi southeast from Rock Creek Ranch, and about 16 mi southeast of Midas.	1991-92	10-23-91 8-02-92	3.56 3.53
Antelope Creek above Little Antelope Creek near Midas, Nev.	Rock Creek	Lat 41°03'41", long 116°27'34", in SE1/4SE1/4 sec.25, T.37 N., R.48 E., Elko County, Hydrologic Unit 16040106, about 5 mi upstream from Little Antelope Creek, and about 20.6 mi southeast of Midas.	1991-92	10-23-91 8-02-92	E.01 0
Antelope Creek above Rock Creek near Battle Mountain, Nev.	Rock Creek	Lat 40°59'54", long 116°39'30", in SW1/4NW1/4 sec.15, T.36 N., R.47 E., Lander County, Hydrologic Unit 16040106, at Wire Corral Ranch, about 3.7 mi upstream from Rock Creek, and about 27 mi northeast of Battle Mountain.	1991-92	10-23-91 8-02-92	.10 0
Rock Creek below Antelope Creek near Battle Mountain, Nev.	Humboldt River	Lat 40°57'32", long 116°42'40", in NW1/4NE1/4 sec.31, T.36 N., R.47 E., Lander County, Hydrologic Unit 16040106, at road crossing, about 0.6 mi downstream of confluence of Antelope Creek, about 12.4 mi northeast of Izzenhood Ranch, and about 24 mi northeast of Battle Mountain.	1991-92	10-23-91 8-02-92	.80 0
Rock Creek above the lower narrows near Battle Mountain, Nev.	Humboldt River	Lat 40°53'08", long 116°40'50", in NW1/4NE1/4 sec.28, T.35 N., R.57 E., Lander County, Hydrologic Unit 16040106, about 6.2 mi downstream of confluence of Antelope Creek, and about 21 mi northeast of Battle Mountain.	1991-92	10-23-91 8-03-92	1.35 .08
Rock Creek above Rock Creek gage, near Battle Mountain, Nev.	Humboldt River	Lat 40°50'05", long 116°35'26", in NE1/4SW1/4 sec.8, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, about 0.4 mi upstream of of Rock Creek gage, and about 22.0 mi northeast of Battle Mountain.	1991-92	10-23-91 8-02-92	1.27 0

E Estimated.

MISCELLANEOUS SITES
CARLIN TREND--Continued

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Boulder Creek above Boot Strap Mine near Tuscarora, Nev.	Rock Creek	Lat 41°04'34", long 116°23'19", in SE1/4SW1/4 sec.13, T.37 N., R.49 E., Elko County, Hydrologic Unit 16040105, about 4.4 mi northeast of Boot Strap Mine, and about 19.01 mi southwest of Tuscarora.	1991-92	8-02-92	0
Humboldt River at Battle Mountain, Nev. (10325000)	--	Lat 40°40'00", long 116°55'50", in NE1/4NW1/4 sec.8, T.32 N., R.45 E., Lander County, Hydrologic Unit 16040105, at State Highway Bridge 18A, about 2.0 mi north of Battle Mountain. Drainage area 8,870 mi ² , approximately.	1897, 1922-23, 1946-81, 1991-92 ⁺	7-30-92	0
Izzenhood Ranch Spring near Oriface, near Battle Mountain, Nev. (405543116534101)	--	Lat 40°55'43", long 116°53'41", in SW1/4NE1/4 sec.10, T.35 N., R.45 E. Lander County, Hydrologic Unit 16040105, about 0.5 mi northeast of Izzenhood Ranch, and about 17 mi northeast of Battle Mountain.	1992	10/23/91 1/08/92 1/29/92 4/16/92 5/21/92 7/06/92 7/30/92 8/13/92 9/24/92	2.98 3.32 3.53 3.51 3.93 4.05 4.42 3.82 4.02

⁺ Operated as a continuous record station.

GROUND-WATER LEVELS

499

CARLIN TREND

Water-Use: H, domestic; I, irrigation; N, industrial; S, stock; U, unused.

Water-Level Status: R, the same site had been pumped recently; S, a nearby site that taps the same aquifer was being pumped.

Water-Level Method: R, reported; S, steel tape; T, electric tape.

Locations of following sites are shown in figure 29.

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
50 N33 E52 13BD 1	GRAVEL PIT NO 2 (G67)	404452116043701	U	--	4960	11/10/91 04/28/92 07/29/92	17.52 17.40 17.92	- - -	S S S
50 N33 E52 13CABA1	GRAVEL PIT NO 1 (G66)	404445116043801	U	294	4960	11/10/91 04/28/92 07/29/92	14.51 14.18 14.90	- - -	S S S
51 N33 E52 04CCB 1	STRACHEN (G57)	404613116082601	U	100	5010	11/11/91 04/28/92	47.6 19.65	- -	T S
51 N33 E52 04DCCD1	USGS 5	404605116074901	U	175	4995	11/10/91 04/28/92 08/01/92	66.6 67.94 68.99	- - -	T S S
51 N33 E52 09BBB 2	GRUBE (G58)	404600116083301	H	--	5030	11/11/91 04/28/92	66.62 67.95	- -	S S
51 N33 E52 10CCAD1	USGS 4	404522116070501	U	97	4985	11/10/91 04/28/92	40.00 41.22	- -	S S
51 N33 E52 16ADD 1	USGS-1A (G63)	404457116072601	U	100	4970	11/11/91 04/28/92	37.8 39.04	- -	T S
51 N33 E52 16ADD 2	USGS-1B (G62)	404457116072602	U	63	4970	11/11/91 04/28/92	37.8 39.04	- -	T S
51 N33 E52 16DCCC1	USGS 2 DUMP WELL (G85)	404421116075301	U	160	5020	11/11/91 04/28/92 08/01/92	101.7 101.68 103.25	- - -	T S S
51 N34 E50 10DAB 1	RICHMOND SUMMIT (G25)	405010116185001	S	250	5710	11/11/91	163.0	-	T
51 N34 E51 03ABBB1	REBHOLTZ NO 2 (G26)	405215116133701	S	69	5340	11/11/91	14.7	-	T
51 N34 E51 07BBB 1	RICHMOND NORTH WINDMILL (G24)	405120116173301	S	301	5510	11/11/91 04/28/92 08/03/92	214.1 213.5 215.77	- - -	T T S
51 N34 E51 21BAA 1	ANOTHER DRILL HOLE (G46)	404936116145001	U	--	5240	11/11/91 04/28/92 08/03/92	46.4 45.7 44.38	- - -	T T S
51 N34 E51 25BCAB1	MAGGIE CREEK RANCH (G51)	404806116114601	U	14	5100	04/28/92	9.44	-	S
51 N34 E51 25CAA 1	SHROEDR MTN DRILL HOLE (G49)	404816116111601	U	--	5140	01/28/92 04/28/92	161.9 166.9	- -	T T
51 N34 E51 28DD 1	COPPER KNG DRILL HOLE (G48)	404802116142201	U	--	5600	11/11/91 04/28/92 09/03/92	498.2 488.3 510.7	- - -	T T T
51 N34 E52 20BAA 1	HADLEY RANCH (G53)	404937116091001	S	92	5420	11/11/91 04/28/92	48.13 50.38	- R	S S
51 N34 E52 27DCA 1	MAGGIE SUSIE DIVIDE (G55)	404803116062601	U	295	5200	11/10/91 04/28/92 08/05/92	186.81 186.5 186.71	- - -	S T S
51 N34 E52 31ADD 1	ENTRANCE (G56)	404725116094301	U	245	5050	10/23/91 11/11/91 04/28/92	14.09 11.62 10.39	- - -	S S S
51 N34 E52 31ADD 2	MAGGIE CREEK RANCH MCP-4A2	404727116094001	U	14	5045	10/24/91 11/11/91	13.22 10.6	- -	S T
51 N34 E52 32BCC 1	MAGGIE CREEK RANCH MCP-4A1	404731116093401	U	12	5040	10/23/91 11/11/91 04/28/92	11.11 8.49 8.09	- - -	S S S
51 N35 E51 30AAAA1	TS RANCH SIMON WELL (G21)	405400116163001	S	--	5519	11/11/91 04/28/92 08/03/92	187.3 187.1 189.89	- - -	T T S
51 N35 E51 31DDD 2	DH-1 WINDMILL (G23)	405217116163402	S	300	5380	11/11/91 04/28/92 08/03/92	56.1 56.12 58.73	- - -	T S S

GROUND-WATER LEVELS
CARLIN TREND--Continued

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
51 N35 E51 32CB 1	DRILL HOLE DH-1 (G22)	405234116161901	U	--	5380	11/11/91 04/28/92 08/03/92	22.3 22.38 22.88	- - -	T S S
51 N35 E51 35DCD 1	UPPER MAGGIE CREEK N01 (G27)	405216116121301	U	--	5215	11/11/91 04/28/92 08/11/92	15.66 15.22 15.45	- - -	S S S
51 N35 E52 28BCC 1	PETRO CHEM (G30)	405336116082101	U	187	5480	11/11/91 04/28/92 08/01/92	46.5 45.39 46.56	- - -	T S S
51 N37 E52 16DCBC1	RED HOUSE WINDMILL	410536116080101	S	321	5765	08/01/92	73.6	-	T
52 N32 E51 01CBB 1	FREEWAY WELL (G78)	404103116114901	U	--	5220	11/11/91 04/30/92	149.0 149.1	- -	T T
52 N33 E52 20CABA1	MARYS CREEK PIEZO	404354116091601	U	--	5035	11/11/91 04/30/92	102.1 96.76	- -	T S
61 N32 E46 10ABDC1	MULESHOE RANCH (G100)	404000116462501	S	--	4534	11/13/91 03/05/92	8.69 6.53	- -	S S
61 N32 E46 11DAAD1	MULESHOE RANCH (G99)	403939116452501	S	30	4541	11/13/91 03/05/92	7.55 7.96	- -	S S
61 N32 E49 05BADB1	BEOWAWE REST STOP (B83)	404049116282301	U	187	4770	11/12/91	115.7	-	T
61 N32 E49 10BDDA1	BEOWAWE OVERLOOK (G82)	403947116260101	U	400	5040	11/10/91	366.69	-	S
61 N32 E49 11ADAC1	TS RANCH - BOBS FLAT (G81)	403945116242101	S	350	5074	11/10/91 04/30/92	215.85 215.86	- -	S S
61 N32 E49 22ADDB1	HORSESHOE RANCH (G80)	403802116253401	S	203	4902	11/12/91	110.82	-	S
61 N32 E50 19CBAC1	HORSESHOE RANCH (G79)	403740116230301	S	402	5100	11/12/91 04/30/92	267.9 267.8	- -	T T
61 N33 E45 26DAC 1	STONY POINT (G101)	404210116515901	U	403	4718	11/12/91 03/04/92 07/30/92	198.3 197.4 198.07	- - -	T T S
61 N33 E47 01CBCC1	TS RANCH 22 (G32)	404540116375601	U	72	4598	03/05/92	13.32	-	S
61 N33 E47 10DCAC1	TS RANCH SECTION 10 (G91)	404438116393001	U	66	4589	03/05/92	11.29	-	S
61 N33 E47 14ADAB1	TS RANCH SECTION 14 (G92)	404416116380201	S	13	4591	11/13/91 03/05/92	9.75 9.20	- -	S S
61 N33 E47 19CDCD1	TS RANCH SECTION 19 (G98)	404247116431901	S	19	4561	03/05/92	5.62	-	S
61 N33 E47 24DBAD1	TS RANCH IRRIGATION (G94)	404309116371201	U	326	4590	03/05/92	8.31	-	S
61 N33 E47 24DBBA1	TS RANCH SECTION 24 (G93)	404311116371601	U	--	4589	11/13/91 03/05/92	6.89 6.27	- -	S S
61 N33 E47 26BADB1	TS RANCH SECTION 26 (G95)	404239116384101	S	11	4581	11/13/91 03/05/92	5.64 4.70	- -	S S
61 N33 E47 27CBBA1	TS RANCH SECTION 27 (G96)	404221116394701	S	33	4575	11/13/91 03/05/92	4.98 4.26	- -	S S
61 N33 E47 29CBAA1	TS RANCH SECTION 29 (G97)	404221116422101	S	27	4563	03/05/92	5.12	-	S
61 N33 E48 05BBD 1	COUNTY LINE STOCK (G33)	404557116351701	U	--	4612	03/05/92	15.17	-	S
61 N33 E48 24BBCB1	TS RANCH DUNPHY 10 (G36)	404331116310601	U	400	4628	11/12/91 03/05/92 07/28/92	14.81 16.53 15.67	- - -	S S S
61 N33 E48 27CCCC1	DUNPHY EXIT (G85)	404151116332301	U	50	4631	11/12/91 03/05/92 07/28/92	26.69 26.01 26.70	- - -	S S S
61 N33 E48 33BDD1	DUNPHY WINDMILL (G84)	404131116340501	U	--	4617	11/10/91 03/05/92 07/28/92	21.45 21.00 19.75	- - -	S S S
61 N33 E49 01BDDD1	TS RANCH 4 (G45)	404550116234301	U	--	4755	11/12/91 03/05/92	120.7 117.50	- -	T S

GROUND-WATER LEVELS
CARLIN TREND--Continued

501

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
61 N33 E49 07AABA1	USGS ET WELL (G87)	404522116290301	U	29	4644	03/03/92	18.	-	R
						03/05/92	17.88	-	S
						05/20/92	18.09	-	S
						06/04/92	18.50	-	S
						06/20/92	18.30	-	S
						08/18/92	18.20	-	S
						09/03/92	18.30	-	S
						09/16/92	18.40	-	S
61 N33 E49 08DCCC1	TS RANCH 7 (G41)	404432116281601	S	--	4662	11/12/91	29.5	-	T
						07/28/92	30.05	-	S
61 N33 E49 10BCDC1	TS RANCH 6 (G42)	404458116262401	U	--	4685	11/12/91	53.6	-	T
						03/05/92	50.19	-	S
						07/28/92	53.62	-	S
61 N33 E49 15CBCC1	MACK CREEK STOCK (G68)	404354116263001	S	130	4696	03/05/92	57.49	-	S
						07/28/92	57.06	-	S
61 N33 E49 26CDBA1	TS RANCH 3 (G69)	404205116250001	U	376	4873	11/12/91	218.4	-	T
61 N34 E48 08CDD1	NEWMONT GOLD CO (G88)	404949116351801	U	293	4679	11/12/91	68.8	-	T
61 N34 E48 21BBBB1	LWR ROCK CREEK WINDMILL (G34)	404853116343201	S	137	4655	11/12/91	43.1	-	T
						03/05/92	42.80	-	S
61 N34 E48 34DDDB1	FEEDLOT WINDMILL (G35)	404621116322201	S	83	4626	11/12/91	19.29	-	S
61 N34 E49 02BCAD1	TS RANCH SAND DUNE (G17)	405114116245401	S	134	4694	11/12/91	25.76	-	S
						03/05/92	25.19	-	S
61 N34 E49 16DABA1	TS RANCH ALKALI (G38)	404919116264401	S	130	4668	11/12/91	17.49	-	S
						03/05/92	17.29	-	S
61 N34 E49 30BADB1	GRAVEL PIT (G37)	404752116293401	S	83	4652	11/12/91	22.4	-	T
						03/05/92	22.40	-	S
61 N35 E49 23ACA1	SHEEP CRK WINDMILL (G18)	405403116242701	S	154	4814	11/12/91	91.7	-	T
61 N35 E49 28AAC 1	SHEEP CRK SW WNDMLL (G16)	405306116264801	S	233	4750	11/12/91	37.9	-	T
61 N36 E49 16AADD1	BARRICK GOLD STRIKE (NA12)	410005116260301	U	--	5305	11/12/91	284.6	-	T
						05/20/92	415.9	-	S
61 N37 E49 15DDBA1	ROSSI MINES SOUTH (G89)	410443116251001	U	492	5880	11/12/91	196.7	-	T
						08/02/92	212.55	-	S
61 N37 E49 22AB 1	ROSSI MINES NORTH (G90)	410425116251601	U	398	5732	11/12/91	145.48	-	S
						08/02/92	150.22	-	S
62 N35 E46 10BACC1	USBLM SHEER WELL (G107)	405542116465401	S	148	4961	11/12/91	120.4	-	T
						03/05/92	113.11	-	S
						08/02/92	113.15	-	S
62 N36 E47 08DBAB1	USBLM ANTELOPE WELL (G108)	410028116410701	S	160	4996	11/13/91	105.57	-	S
						03/04/92	105.98	-	S
						08/02/92	105.89	-	S
62 N36 E48 14BCCB1	SHEEP CRK 25 RANCH (G110)	405956116314101	S	490	5455	05/20/92	399.4	-	T
						07/29/92	399.7	-	T
62 N36 E48 27ABCD1	USBLM (G109)	405822116320901	S	698	5356	07/29/92	626.8	-	T
62 N37 E48 25DDCA1	ROCK CRK SECTION 25 (G111)	410254116293901	U	--	5225	10/23/91	34.99	-	S
						03/04/92	31.46	-	S
						05/20/92	31.15	-	S
						08/02/92	33.10	-	S
63 N38 E46 02BCDD1	SQUAW VLY IRRIGATION (G113)	411157116451001	I	500	5195	03/04/92	85.69	-	S
63 N38 E46 10BABB1	SQUAW VALLEY RANCH (G115)	411128116461701	S	180	5214	11/13/91	108.2	R	T
						03/04/92	107.4	-	T
						07/31/92	108.39	-	S
63 N38 E46 15BCBA1	SQUAW VALLEY RANCH (G116)	411021116462901	S	100	5151	03/04/92	60.5	-	T
						07/31/92	61.62	-	S
63 N38 E46 21DB 1	SQUAW VALLEY RANCH (G117)	410912116470401	S	93	5120	03/04/92	33.3	-	T
						07/31/92	34.35	-	S
63 N38 E46 33BDDC1	SQUAW VALLEY RANCH (G118)	410755116473601	S	105	5158	03/04/92	60.42	-	S

GROUND-WATER LEVELS
CARLIN TREND--Continued

LOCAL WELL NO.	STATION NAME	SITE ID	WATER USE	WELL DEPTH (FEET)	ELEVATION (FEET ABOVE SEA LEVEL)	WATER LEVEL (BELOW LAND SURFACE)			
						DATE	(FEET)	STATUS	METHOD
63 N39 E46 34DACD1	GOLD CIRCLE MINES (G114)	411238116453801	N	345	5262	11/13/91	25.1	-	T
						03/04/92	27.3	-	T
						07/31/92	28.05	-	S
63 N39 E47 20DBAA1	SQUAW VALLEY RANCH (G112)	411433116410701	S	85	5225	11/13/91	16.96	-	S
						03/04/92	17.26	-	S
						07/31/92	17.01	-	S
64 N34 E45 02AAAD1	25 RANCH SHEEP CRK (G103)	405126116515301	U	370	4980	03/04/92	320.05	-	S
64 N34 E45 33CCB 1	IZZENHOOD S (G102)	404627116551001	S	200	4620	03/04/92	135.0	-	T
						07/30/92	149.71	-	S
64 N35 E45 02CBCD1	IZZY WELL (G104)	405606116524801	S	--	4770	11/12/91	58.1	-	T
						03/04/92	53.72	-	S
						05/21/92	53.9	-	T
						07/30/92	53.97	-	S
						08/13/92	53.97	-	S
						09/24/92	53.96	-	S
64 N36 E44 26DDDA1	ROOSTER COMB (G105)	405742116581701	U	187	4635	03/04/92	124.9	-	T
						05/21/92	125.2	-	T
						07/31/92	130.75	-	S
64 N37 E44 14BDCC1	CLOVERS NORTH (G106)	410507116590001	S	161	4608	05/21/92	116.8	-	T
						07/31/92	119.70	-	S

QUALITY OF GROUND WATER AND SPRINGS

503

CARLIN TREND

Water-quality measurements in the following table were made as part of a water-resources investigation in six basins north of the Humboldt River in northeastern Nevada, along the Carlin Trend. Locations of following sites are shown in figure 29.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

STATION	NUMBER	LOCAL WELL NUMBER	DATE	TIME	DEPTH OF WELL, TOTAL (FEET)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)		
							WATER WHOLE FIELD (STAND-ARD UNITS)					
405010116134101		51 N34 E51 15BDD 1	09-03-92	1700	1000	--	--	--	--	--		
405929116153201		51 N36 E51 20DDBA1	01-27-92	1400	--	--	--	--	--	--		
*404104116091401		52 N32 E52 05CDBA1	01-27-92	1600	--	--	--	--	--	--		
*404445116411901		61 N33 E47 09CBDC1	01-29-92	1030	--	--	--	--	--	--		
			09-03-92	1130	--	418	7.6	24.0	0.30	6.1		
405542116465401		62 N35 E46 10BACC1	08-31-92	1200	148.00	405	7.3	21.0	4.7	4.2		
405956116314101		62 N36 E48 14BCCB1	08-31-92	1700	490.00	418	6.9	20.0	2.8	3.1		
410536116335601		62 N37 E48 09CCBD1	01-30-92	1000	340.00	--	--	--	--	--		
			09-02-92	1200	340.00	682	6.7	28.5	440	--		
411217116412201		63 N38 E47 05ABBC1	09-01-92	1430	--	259	7.2	10.0	0.60	3.9		
404648116551601		64 N34 E45 32ADDD1	09-01-92	1000	--	419	7.9	19.0	3.0	5.6		
*405543116534101		64 N35 E45 10BACD1	01-30-92	0800	--	--	--	--	--	--		
			09-02-92	1600	--	363	7.3	28.5	0.40	5.5		
DATE	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
09-03-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-29-92	--	--	--	--	--	--	--	--	--	--	--	--
09-03-92	66	130	33	12	38	1	5.0	152	125	33	31	1.0
08-31-92	57	110	33	5.9	38	2	7.1	143	117	28	36	0.50
08-31-92	42	110	39	4.0	32	1	12	150	123	21	38	0.40
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	--	270	83	14	37	1	5.3	95	78	230	16	1.9
09-01-92	42	75	22	4.9	22	1	3.9	107	88	26	15	0.30
09-01-92	71	94	27	6.4	43	2	8.9	152	124	34	30	1.5
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	85	100	35	4.2	36	2	5.4	132	108	37	24	2.0
DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
09-03-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-29-92	--	--	--	--	--	--	--	--	--	--	--	--
09-03-92	52	277	289	0.38	<0.010	2.10	<0.010	<0.20	<0.010	20	4	13
08-31-92	54	273	281	0.37	0.020	1.50	0.530	0.70	<0.010	<10	3	53
08-31-92	73	310	309	0.42	0.010	3.30	0.020	<0.20	0.010	20	2	100
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	14	447	452	0.61	0.010	<0.050	0.580	0.50	0.020	10	110	33
09-01-92	52	200	201	0.27	<0.010	0.360	<0.010	<0.20	0.050	<10	6	75
09-01-92	63	292	295	0.40	<0.010	1.30	0.010	<0.20	<0.010	20	16	74
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	48	237	260	0.32	<0.010	0.660	<0.010	<0.20	<0.010	40	5	17

QUALITY OF GROUND WATER AND SPRINGS

CARLIN TREND--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992

DATE	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)
09-03-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	--	--	--	--	--
01-29-92	--	--	--	--	--	--	--	--	--	--	--	--
09-03-92	<0.5	<1.0	<1	<3	<1	8	<1	38	<1	<0.1	<10	<1
08-31-92	<0.5	<1.0	<1	<3	<1	540	<1	29	140	<0.1	<10	3
08-31-92	<0.5	<1.0	2	<3	<1	140	2	24	40	<0.1	<10	3
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	0.5	<1.0	<1	<3	<1	2000	<1	100	340	<0.1	<10	3
09-01-92	<0.5	<1.0	<1	<3	<1	7	<1	16	<1	<0.1	<10	<1
09-01-92	<0.5	<1.0	<1	<3	<1	12	<1	89	<1	<0.1	<10	<1
01-30-92	--	--	--	--	--	--	--	--	--	--	--	--
09-02-92	<0.5	<1.0	<1	<3	<1	4	<1	60	<1	<0.1	<10	1
DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)	C-13 / C-12 STABLE ISOTOPE RATIO PER MIL	CARBON 14 PERCENT MODERN	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL	TRITIUM TOTAL (PCI/L)	TRITIUM 2 SIGMA WATER, WHOLE, TOTAL (PCI/L)	CYANIDE TOTAL (MG/L AS CN)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL
09-03-92	--	--	--	--	--	-8.80	4.3	--	--	--	--	--
01-27-92	--	--	--	--	--	--	--	-17.20	<0.3	0.60	--	-132.0
01-27-92	--	--	--	--	--	--	--	-16.45	--	--	--	-128.0
01-29-92	--	--	--	--	--	--	--	-15.60	<0.3	0.60	--	-125.0
09-03-92	<1	<1.0	280	8	14	-12.80	61.3	--	--	--	<0.010	--
08-31-92	<1	<1.0	250	<6	16	--	--	-15.75	<0.3	0.60	<0.010	-125.0
08-31-92	<1	<1.0	260	<6	900	--	--	-15.55	0.4	0.60	<0.010	-126.0
01-30-92	--	--	--	--	--	--	--	-16.70	<0.3	0.60	--	-132.0
09-02-92	<1	<1.0	360	<6	490	-10.30	--	--	--	--	<0.010	--
09-01-92	<1	<1.0	190	7	<3	--	--	-16.45	7.6	0.80	<0.010	-127.0
09-01-92	<1	<1.0	280	23	30	--	--	-15.80	0.9	0.60	<0.010	-125.0
01-30-92	--	--	--	--	--	--	--	-16.20	<0.3	0.60	--	-127.0
09-02-92	<1	<1.0	160	<6	19	-10.30	42.5	--	--	--	<0.010	--

* DENOTES A SPRING

HIGH-ELEVATION PRECIPITATION NETWORK

High-elevation precipitation data are collected at sites in eastern and southeastern Nevada. Locations of the following sites are shown in figure 19.

STATION NAME	SITE ID	LATITUDE	LONGITUDE	ELEVATION (FEET)	PERIOD	PRECIPITATION (INCHES)
CAVE MOUNTAIN	390946114364901	390946	1143649	10,650	10/17/91 TO 05/19/92 05/19/92 TO 10/22/92	12.44 3.98
CHERRY CREEK RANGE	400726114524701	400726	1145247	9,700	10/17/91 TO 05/19/92 05/19/92 TO 10/22/92	9.62 2.89
HAYFORD PEAK	363929115115801	363929	1151158	9,840	10/21/91 TO 05/13/92 05/13/92 TO 10/20/92	18.25 2.00
KYLE CANYON	361457115373301	361457	1153733	7,760	10/23/91 TO 05/14/92 05/14/92 TO 10/19/92	24.25 2.50
LEE CANYON	361822115402501	361822	1154025	8,510	10/23/91 TO 05/14/92 05/14/92 TO 10/19/92	22.00 3.50
MT. HAMILTON	391436115323901	391436	1153239	10,600	10/17/91 TO 10/22/92	15.51
MT. WASHINGTON	385409114185401	385409	1141854	10,440	10/23/91 TO 05/20/92 05/20/92 TO 10/15/92	18.32 5.50
MT. WILSON	381438114233301	381438	1142333	9,200	10/17/91 TO 05/19/92 05/19/92 TO 10/22/92	18.81 ---
NW OF MT. MORIAH	391913114143101	391913	1141431	9,300	10/17/91 TO 05/19/92 05/19/92 TO 10/22/92	9.81 2.62
POTOSI PEAK	355641115294601	355641	1152946	8,080	10/21/91 TO 05/13/92 05/13/92 TO 10/20/92	20.75 ---
SHEEP PEAK	363500115144301	363500	1151443	9,600	10/21/91 TO 05/13/92 05/13/92 TO 10/20/92	40.50 ---
TROUGH SPRING	362240115462101	362240	1154621	8,240	10/22/91 TO 05/14/92 05/14/92 TO 10/19/92	19.50 ---

THIS IS A
BLANK PAGE

Page	Page
Access to WATSTORE data	24
Accuracy of records	20
Acree-foot, definition of	25
Adenosine triphosphate, definition of	25
Alamo, White River above Upper Pahranagat Lake near	55
Algae, definition of	25
Algal growth potential, definition of	25
Aquifer, definition of	25
Arrangement of records	20
Artesian, definition of	25
Artificial substrate, definition of	29
Ash Canyon Creek near Carson City	155
Ash mass, definition of	25
Austin, Kingston Creek below Cougar Canyon near	112
Stoneberger Creek near	108
Bacteria, definition of	25
Battle Mountain, Rock Creek near	208-210
Humboldt River at	212-214
Bed load, definition of	28
Bed-load discharge, definition of	28
Bed material, definition of	25
Belmont, Mosquito Creek near	107
Pine Creek near	106
Big Creek near Warm Springs	110
Big Smoky Valley (Northern Part), gaging-station records in	112-115
Biochemical oxygen demand, definition of	25
Biomass, definition of	25
Black Rock Desert basin, crest-stage partial-record stations in	388
gaging station records in	365,366
Blackwood Creek, near Tahoe City	240-244
Blue-green algae, definition of	27
Boca Reservoir near Truckee	329
Bottom material, definition of	25
Boulder Creek near Dunphy	211
Bridgeport, Bridgeport Reservoir near	121
East Walker River near	122
Lower Twin Lake near	119
Robinson Creek at Twin Lakes outlet near	120
Upper Twin Lake near	118
Bridgeport Reservoir near Bridgeport	121
Bruneau River at Rowland	371
Bruneau River basin, gaging-station records in	371
Buckeye Creek near Minden	142
Caliente, Meadow Valley Wash near	67
Camp Richardson, Fallen Leaf Lake near	233
Taylor Creek near	234
Carlin, Humboldt River near	192-194
Jack Creek below Indian Creek near	196,197
Maggie Creek at	201
Maggie Creek at Maggie Creek Canyon, near	198,199
Maggie Creek, near	200
Marys Creek at	202,203
Susie Creek at	195
Carlin Trend, discharge measurements in	494-498
ground-water levels in	499-502
quality of ground water in	503,504
Carson City, Ash Canyon Creek near	155
Carson River near	150,151
Clear Creek near	149
Deer Run Road near	158
Eagle Valley Creek at	157
Franktown Creek near	340
Kings Canyon Creek near	154
Marlette Creek near	272
Marlette Lake near	271
North Fork Kings Canyon near	153
North Fork Kings Canyon Diversion near	152
Vicee Canyon Creek, near Sagebrush Ranch near	156
Washoe Lake near	341
Carson River, at Deer Run Road	158
at Tarzyn Road near Fallon	173
below Lahontan Reservoir near Fallon	164
Carson City near	150,151
East Fork below Markleeville Creek near	137
Markleeville	137
near Fort Churchill	159-162
West Fork at Paynesville	145
at Woodfords	143,144
Carson River basin, crest-stage partial-record stations in	387,388
discharge measurements at miscellaneous sites	404,405
gaging-station records in	137-178
Cells/volume, definition of	25
Central Region, crest-stage partial-record stations in	387
discharge measurements at miscellaneous sites in	389,390
Charleston, Marys River below Orange Bridge near	179-181
Charleston Park, Lee Canyon near	79
Charleston Peak, Peak Spring Canyon Creek near	116
Chemical oxygen demand, definition of	25
Chlorophyll, definition of	26
Clark, Truckee River at	351,352
Classification of records	20
Clear Creek, near Carson City	149
Cleve Creek near Ely	100,101
Coleville, West Walker River below Little Walker River near	124,125
West Walker River near	126,127
Color unit, definition of	26
Colorado River, below Hoover Dam	97-99
Colorado River basin, crest-stage partial-record stations in	386,387
gaging-station records in	48-99
quality of groundwater in	472,473
Colorado River main stem, gaging-station records in	95-99
Comus, Humboldt River at	215
Contents, definition of	26
Control, definition of	26
Control structure, definition of	26
Conversion factors, U.S. customary units to International System (SI) units	Back cover
Cooperation	1
Corn Creek Spring at National Fish & Wildlife Headquarters	80
Crest-stage partial-record stations: Adrian Valley Tributary near Wabuska	387
Adrian Valley Tributary near Weeks	388
Bird Springs Wash near Arden	387
Brunswick Canyon near New Empire	387
California Wash near Moapa	386
Cole Creek near Palisade	388
Cottonwood Valley near Blue Diamond	387
Dixie Valley Tributary near Eastgate	387
Eagle Creek near Orovida	388
Humboldt River Tributary near Bliss	388
Humboldt SL Tributary near Bradys Hot Springs	388
Illipah Creek Tributary near Hamilton	387
Kyle Canyon near Charlston Park	386
Lahontan Reservoir Tributary near Silver Springs	388
Las Vegas Wash at North Las Vegas	386
Las Vegas Wash Tributary near Nellis Air Force Base	386
Las Vegas Wash Tributary South of Nellis Air Force Base	386
Mormon Wells Wash near Las Vegas	386
Nelson Creek Tributary near Currie	387
Oak Creek near Blue Diamond	387
Pyramid Lake Tributary near Nixon	388
Red Rock Wash near Blue Diamond	386
Saulsbury Wash near Tonopah	387
Telephone Canyon near Charleston Park	386
Valley of Fire Wash near Overton	386
Willow Creek Tributary near Jiggs	388
Crest-stage partial-record stations, discharge at	386-388
Crystal Bay, First Creek near	252
Incline Creek near	268-270
Second Creek at Lakeshore Drive near	253
Third Creek near	258-260
Wood Creek at mouth near	255
Crystal Spring near Hiko	54
Cubic foot per second, definition of	26
Cubic foot per second per day, definition of	26
Cubic foot per second per square mile, definition of	26
Currant, Little Currant Creek near	109
Daggett Creek, near Genoa	148
Daggett Pass, Edgewood Creek below South Benjamin Drive near	281
Edgewood Creek Tributary near	282
Data collection and computation	16,23,24
Data presentation	17,22,23,24
Deer Run Road near Carson City	158
Deeth, Marys River above Hot Springs Creek near	182
Marys River below Twin Buttes near	183,184
Definition of terms	25-30

	Page		Page
Diatoms, definitions of	27	Great Basin, gaging-station records in	100-369
Discharge at partial-record stations and miscellaneous sites	389-391	Great Basin National Park Seepage Investigation	392,393
Discharge, definition of	26	Great Salt Lake basin, discharge measurements at miscellaneous sites	389,392,393
Discontinued Surface-Water Quality Stations	xvii	Green algae, definition of	28
Discontinued Surface-Water Stations	xi-xvi	Ground water	8
Dissolved, definition of	26	Ground-water levels	23
Dissolved-solids concentration, definition of	26	Ground-water quality	24
Dissolved trace-element concentration	22	Ground-water records	420-441
Dixie Creek above South Fork Humboldt River near Elko	190,191	Ground-water levels, data in Carlin Trend	499-502
Donner Creek, at Donner Lake near Truckee	310,311	in Douglas County	474-479
Donner Lake near Truckee	309	Primary observation wells	420-441
Douglas County, ground water	15	Secondary observation wells	442-471
ground-water records in	474-479	Ground-water quality, data	472,473
quality of ground water in	480-486	in Carlin Trend	503,504
Downstream order system	15	in Douglas County	480-486
Drainage area, definition of	26	in Lake Tahoe Basin	490,491
Drainage basin, definition of	26	in Laughlin	472,473
Dry Lake Canal below West Canal Diversion near Stillwater	170	Hamilton, Illipah Creek near	105
Dry mass, definition of	25	Hardness, definition of	26
Dunphy, Boulder Creek near	211	Hawthorne, Walker Lake near	117
Humboldt River at Old U. S. Highway 40 Bridge at	206,207	Hazen, Truckee Canal near	354
Eagle Rock Creek near Stateline	286-288	Henderson, Las Vegas wash below Lake Las Vegas below	94
Eagle Valley Creek at Carson City	157	Las Vegas Wash above Three Kids Wash below	91-92
East Fork Carson River, below Markleeville Creek, near Markleeville	137	Las Vegas Wash near	89,90
near Gardnerville	138-140	High-Elevation Precipitation Network	15,505
East Las Vegas, Las Vegas Wasteway near	88	Hiko, Crystal Spring near	54
East Walker River, above Strosnider ditch, near Mason	123	Hoover Dam, Colorado River below	97-99
near Bridgeport	122	Lake Mead at	95,96
Edgewood Creek, at Lake Tahoe, near Stateline	292-294	Hot Creek and Railroad (Northern Part) Valleys, gaging-station records in	109,110
at Palisades Drive, near Kingsbury	283-285	Hualapai Flat, gaging-station records in	368
at Stateline	289	Hudson, West Walker River near	132
below Highway 50 near Stateline	290	Humboldt River, at Battle Mountain	212-214
below South Benjamin Drive, near Daggett Pass	281	at Comus	215
Tributary above Edgewood Clubhouse near Stateline	291	at Old U.S. Highway 40 Bridge at Dunphy	206,207
Tributary near Daggett Pass	282	at Palisade	204,205
Elko, Dixie Creek above South Fork Humboldt River near	190,191	near Carlin	192-194
Humboldt River near	186	near Elko	186
South Fork Humboldt River above Dixie Creek near	189	near Imlay	218
South Fork Humboldt River above Tenmile Creek near	187,188	near Rye Patch	220
Ely, Cleve Creek near	100,101	Humboldt River basin, crest-stage partial-record stations in	388
Steptoe Creek near	102-104	discharge measurements at miscellaneous sites	391,494-498
Explanation of records	15	gaging-station records in	179-220
Fallen Leaf Lake near Camp Richardson	233	Hydrographic areas, list of	412
Fallon, Carson River at Tarzyn Road near	173	Hydrologic Bench-Mark Network	15
Carson River below Lahontan Reservoir near	164	Hydrologic conditions during current year	2-14
Lahontan Reservoir near	163	Hydrologic unit, definition of	26
Stillwater Diversion Canal near	165-169	Identifying estimated daily discharges	20
Farad, Truckee River at	332,333	Illipah Creek near Hamilton	105
Fecal coliform bacteria, definition of	25	Imlay, Humboldt River near	218
Fecal streptococcal bacteria, definition of	25	Incline Creek, above Tyrol Village near Incline Village	261-263
First Creek near Crystal Bay	252	at Highway 28, at Incline Village	264-266
Flamingo Wash at Nellis Blvd	87	near Crystal Bay	268-270
near Torrey Pines Drive near Las Vegas	86	Incline Creek Tributary at Country Club Drive near Incline Village	267
Fort Churchill, Carson River near	159-162	Incline Village, Incline Creek above Tyrol Village, near	261-263
Franktown Creek near Carson City	340	Incline Creek at Highway 28, at	264-266
Fredericksburg, Fredericksburg Canyon Creek near	146	Incline Creek Tributary at Country Club Drive near	267
Fredericksburg Canyon Creek, near Fredericksburg	146	Third Creek at Village Boulevard at	257
Gage height, definition of	26	Third Creek below Unnamed Tributary near	256
Gaging station, definition of	26	Wood Creek above Jennifer Street near	254
records are published	vii-ix	Independence Creek near Truckee	321
Gaging-station records	48-374	Independence Lake near Truckee	320
Galena Creek, at Galena Creek State Park	343	Instantaneous discharge, definition of	26
near Steamboat	344	Introduction	1
Gardnerville, East Fork Carson River near	138-140	Jack Creek below Indian Creek near Carlin	196,197
Pine Nut Creek near	141	Jakes Valley, gaging stations in	105
General Creek near Meeks Bay	235-239	Kingsbury, Edgewood Creek at Palisades Drive near	283-285
Genoa, Daggett Creek near	148	Kings Canyon Creek near Carson City	154
Gerlach, South Willow Creek near	368	North Fork near Carson City	153
Glenbrook, Glenbrook Creek at	274-276	North Fork Diversion near Carson City	152
Glenbrook Creek at Old Highway 50 near	273	Kings River near Orovida	366
North Logan House at Highway 50 near	277	Kingston Creek below Cougar Canyon, near Austin	112
Glenbrook Creek, at Glenbrook	274-276	Laboratory measurements	21
at Old Highway 50 near Glenbrook	273	Lahontan Reservoir near Fallon	163
Logan House Creek near	278-280	Lake Las Vegas Inlet, Las Vegas Wash overflow at	93
North Logan House Creek at Highway 50 near	277	Lake Mead, at Hoover Dam	95,96
Glendale, Muddy River near	73,74	Lake Tahoe at Tahoe City	306
Gold Creek, Owyhee River near	373	Lake Tahoe Basin Study	15
Wild Horse Reservoir near	372		

Page	Page
Lake Tahoe basin, gaging station records in	222-306
quality of ground water in	490,491
Lakes and reservoirs:	
Boca Reservoir near Truckee	329
Bridgeport Reservoir near Bridgeport	121
Donner Lake near Truckee	309
Fallen Leaf Lake near Camp Richardson	233
Independence Lake near Truckee	320
Lahontan Reservoir near Fallon	163
Lake Mead, at Hoover Dam	95,96
Lake Tahoe at Tahoe City	306
Little Washoe Lake near Steamboat	342
Lower Twin Lake near Bridgeport	119
Marlette Lake near Carson City	271
Martis Creek Lake near Truckee	313
Prosser Creek Reservoir near Truckee	317
Pyramid Lake near Nixon	221
Rye Patch Reservoir near Rye Patch	219
Stampede Reservoir near Truckee	326
Topaz Lake near Topaz	129
Upper Twin Lake near Bridgeport	118
Walker Lake near Hawthorne	117
Washoe Lake near Carson City	341
Wild Horse Reservoir near Gold Creek	372
Lamoille, Lamoille Creek near	185
Lamoille Creek near Lamoille	185
Land-surface datum, definition of	26
Las Vegas, Flamingo Wash at Nellis Blvd, near	87
Flamingo Wash near Torrey Pines Drive near	86
Las Vegas Creek at Lamb Boulevard near	83
Las Vegas Wash near Sahara Avenue near	84
Sloan Channel at Charleston Boulevard near	85
Las Vegas Creek at Lamb Boulevard near Las Vegas	83
Las Vegas Valley, gaging station records in	79-94
Las Vegas Wash, above Detention Basin	
near North Las Vegas	81,82
above Three Kids Wash below	91,92
below Lake Las Vegas below Henderson	94
near Henderson	89,90
near Sahara Avenue near Las Vegas	84
Las Vegas Wash Overflow at Lake Las Vegas Inlet	93
Las Vegas Wasteway near East Las Vegas	88
Latitude-longitude system	16
Laughlin ground-water quality data	472,473
Lee Canyon near Charleston Park	79
Little Currant Creek near Currant	109
Little Humboldt River near Paradise Valley	216
Little Truckee River, above Boca Reservoir,	
near Truckee	327,328
below Boca Dam near Truckee	330,331
Little Washoe Lake near Steamboat	342
Littlefield, Virgin River at	48-51
Local site numbers	16
Logan House Creek near Glenbrook	278-280
Lower Twin Lake near Bridgeport	119
Lund, White River near	53
McDermitt, McDermitt Creek near	365
McDermitt Creek near McDermitt	365
Maggie Creek,	
at Carlin	201
at Maggie Creek Canyon near Carlin	198,199
near Carlin	200
Mahogany Creek near Summit Lake	367
Marble Bluff Dam, Truckee River at	363,364
Markleeville, East Fork Carson River below	
Markleeville Creek near	137
Marlette Creek near Carson City	272
Marlette Lake near Carson City	271
Martin Creek near Paradise Valley	217
Martis Creek,	
at State Highway 267, near Truckee	312
near Truckee	314-316
Martis Creek Lake near Truckee	313
Marys Creek at Carlin	202,203
Marys River, above Hot Springs Creek near Deeth	182
below Orange Bridge near Charleston	179-181
below Twin Buttes near Deeth	183,184
Mason, East Walker River above Strosnider	
Ditch near	123
Meadow Valley Wash, near Caliente	67
near Rox	68-72
Mean concentration, definition of	28
Mean discharge, definition of	26
Measuring point, definition of	26
Meeks Bay, General Creek near	235-239
Metamorphic stage, definition	26
Methylene blue active substances, definition of	26
Meyers,	
Trout Creek at U. S. Forest Service	
Road 12 N01, near	295-297
Upper Truckee River at Highway 50, above	225-227
Upper Truckee River at	
South Upper Truckee Road, near	222-224
Micrograms per gram, definition of	27
Micrograms per liter, definition of	27
Miller Spring, near Sheridan	147
Milligrams of carbon per area or volume per unit	
time [mg C/(m ² .time)] for periphyton and	
macrophytes and [mg C/(m ² .time)] for	
phytoplankton	28
Milligrams of oxygen per area or volume per	
unit time [mgO/(m ² .time)] for periphyton	
and macrophytes and [mgO/(m ² .time)] for	
phytoplankton	28
Milligrams per liter, definition of	27
Minden, Buckeye Creek near	142
Miscellaneous data:	
Crest-stage partial-record stations	386-388
Discharge measurements at	
miscellaneous sites	389-391
in Carlin Trend	494-498
Water-quality partial-record stations	
and miscellaneous sites	409
Moapa, Muddy River near	61-66
Muddy Spring at L.D.S. Farm near	58
Pahrnagat Wash near	56,57
Pederson Spring near	59
Warm Springs West near	60
Monitor Valley-Diamond Valley system,	
gaging station records in	106-108
Mosquito Creek near Belmont	107
Mountain City, Owyhee River near	374
Muddy River, above Lake Mead near Overton	
near Glendale	73,74
near Moapa	61-66
Muddy Spring at LDS Farm, near Moapa	58
National Fish & Wildlife Headquarters,	
Corn Creek Spring at	80
National Geodetic Vertical Datum, definition of	27
National Stream-Quality Accounting Network	15
National Trends Network	15
Natural substrate, definition of	29
Nixon, Pyramid Lake near	221
Truckee River near	358-362
North Las Vegas, Las Vegas Wash	
above Detention Basin, near	81,82
North Logan House Creek	
at Highway 50 near Glenbrook	277
Numbers, station identification	15
On-site measurements and sample collection	21
Organic mass, definition of	25
Organism count/area, definition of	27
Organism count/volume, definition of	27
Organism, definition of	27
Orovada, Kings River near	366
Other records available	20
Overton, Muddy River above Lake Mead near	75-77
Overton Beach, Rogers Spring near	78
Owyhee River basin,	
gaging-station records in	372-374
Owyhee River near Gold Creek	373
near Mountain City	374
Pahrnagat Wash near Moapa	56,57
Pahrump Valley, gaging station records in	116
Paiute Drain below TJ Drain near Stillwater	174-178
Palisade, Humboldt River at	204,205
Paradise Valley, Little Humboldt River near	216
Martin Creek near	217
Parameter code, definition of	27
Partial-record station, definition of	27
Particle-size classification, definition of	27
Particle size, definition of	27
Paynesville, West Fork Carson River at	145
Peak Spring Canyon Creek near Charleston Peak	116
Pederson Spring near Moapa	59
Percent composition, definition of	27
Periphyton, definition of	27
Pesticides, definition of	27
Phytoplankton, definition of	27
Picocurie, definition of	27
Pine Creek near Belmont	106
Pine Nut Creek near Gardnerville	141

Page	Page
Plankton, definition of	27
Precipitation network, Nevada	
high-elevation	505
Cave Mountain	505
Cherry Creek Range	505
Hayford Peak	505
Kyle Canyon	505
Lee Canyon	505
Mt. Hamilton	505
Mt. Washington	505
Mt. Wilson	505
NW of Mt. Moriah	505
Potosi Peak	505
Sheep Peak	505
Trough Spring	505
Preston, Water Canyon Creek near	52
Primary productivity, definition of	28
Prosser Creek below Prosser Creek Dam	
near Truckee	318,319
Prosser Creek Reservoir near Truckee	317
Publications, techniques of water-resources	
investigations	34-36
water-related reports for Nevada	
completed by the Geological Survey	
during calendar year 1992	31-33
Pyramid Lake near Nixon	221
Pyramid and Winnemucca Lakes basin,	
crest stage gages	388
discharge measurements at	
miscellaneous sites	394-403
gaging-station records in	221-364
Records of ground-water levels	23
Records of ground-water quality	24
Records of stage and water discharge	16
Records of surface-water quality	20
Recoverable from bottom material, definition of	28
References Cited	30
Remarks code	22
Reno, Truckee River at	334-336
Reservoirs. See Lakes and reservoirs	
Return period, definition of	28
Robinson Creek at Twin Lakes outlet	
near Bridgeport	120
Rock Creek near Battle Mountain	208-210
Rogers Spring, near Overton Beach	78
Round Mountain, South Twin River near	113-115
Rowland, Bruneau River at	371
Rox, Meadow Valley Wash near	68-72
Runoff, in inches, definition of	28
Rye Patch, Humboldt River near	220
Rye Patch Reservoir near	219
Rye Patch Reservoir near Rye Patch	219
S-Line Diversion Canal near Stillwater	171,172
Sagehen Creek near Truckee	322-325
Salmon Falls Creek basin,	
gaging station records in	370
Salmon Falls Creek near San Jacinto	370
San Jacinto, Salmon Falls Creek near	370
Sea level	28
Second Creek at Lakeshore Drive	
near Crystal Bay	253
Sediment	21
Sediment, definition of	28
Seven-day 10-year low flow, definition of	28
Sheridan, Miller Spring near	147
Sloan Channel at Charleston Boulevard	
near Las Vegas	85
Smoke Creek below Reservoir near Smoke Creek	369
Smoke Creek Desert,	
gaging station records in	369
Smoke Creek Desert, Precipitation Network	382
Sodium-adsorption-ratio, definition of	29
Solute, definition of	29
South Fork Humboldt River above	
Dixie Creek near Elko	189
above Tenmile Creek near Elko	187,188
South Lake Tahoe, Trout Creek at	303-305
Trout Creek at Pioneer Trail, near	298-300
Upper Truckee River at	228-232
South Twin River near Round Mountain	113-115
South Willow Creek near Gerlach	368
Spanish Springs Valley Precipitation Network	382
Sparks, Truckee River near	337-339
Special networks and programs	15
Specific conductance, definition of	29
Spring discharge	378-380
Spring Valley, gaging stations in	100,101
Stage and water discharge data,	
explanation of	16-20
Stage-discharge relation, definition of	29
Stampede Reservoir near Truckee	326
Stateline, Eagle Rock Creek, near	286-288
Edgewood Creek at	289
Edgewood Creek at Lake Tahoe, near	292-294
Edgewood Creek below Highway 50 near	290
Edgewood Creek Tributary above	
Edgewood Clubhouse near	291
Station identification numbers	15
Steamboat, Galena Creek near	344
Little Washoe Lake near	342
Steamboat Creek at	345
Steptoe Creek near Ely	102-104
Steptoe Valley, gaging-station records in	102-104
Stillwater, Diversion Canal near Fallon	165-169
Dry Lake Canal below West Canal	
Diverson near	170
Palute Drain below TJ Drain near	174-178
S-Line Diversion Canal near	171,172
Stone Cabin Valley, gaging-station records in	111
Stoneberger Creek near Austin	108
Streamflow, definition of	29
Substrate, definition of	29
Summary of hydrologic conditions	2-14
Summit Lake, Mahogany Creek near	367
Summit Lake Valley, gaging-station	
records in	367
Surface area, definition of	29
Surface water	2
Surface-water quality	5
Surficial bed material, definition of	29
Susie Creek at Carlin	195
Suspended, definition of	29
Suspended, recoverable, definition of	29
Suspended sediment, definition of	28
Suspended-sediment concentration, definition of	28
Suspended-sediment discharge, definition of	28
Suspended-sediment load, definition of	28
Suspended, total, definition of	29
Tahoe City, Blackwood Creek near	240-244
Lake Tahoe at	306
Truckee River at	307,308
Ward Creek above Stanford Rock Trail	
crossing near	246
Ward Creek below confluence near	245
Tahoe Pines, Ward Creek at State Highway 89,	
near	247-251
Tahoe Valley, Trout Creek near	301,302
Taxonomy, definition of	29
Taylor Creek, near Camp Richardson	234
Terms, definition of	25-30
Thermograph, definition of	29
Third Creek,	
at Village Boulevard at Incline Village	257
below Unnamed Tributary near Incline Village	256
near Crystal Bay	258-260
Time-weighted average, definition of	30
Tons per acre-foot, definition of	30
Tons per day, definition of	30
Topaz Lake near Topaz	129
Topaz, Topaz Lake near	129
West Walker River above Topaz Lake at	128
Total coliform bacteria, definition of	25
Total, definition of	30
Total discharge, definition of	30
Total organism count, definition of	27
Total, recoverable, definition of	30
Total-sediment discharge, definition of	28
Total-sediment load, definition of	28
Tracy, Truckee River below	350
Trout Creek,	
at Pioneer Trail, near South Lake Tahoe	298-300
at South Lake Tahoe	303-305
at U. S. Forest Service Road 12 N01,	
near Meyers	295-297
near Tahoe Valley	301,302
Truckee, Boca Reservoir near	329
Donner Creek at Donner Lake near	310,311
Donner Lake near	309
Independence Creek near	321
Independence Lake near	320
Little Truckee River, above Boca	
Reservoir, near	327,328
Little Truckee River, below	
Boca Dam near	330,331
Martis Creek at State Highway 267	312
Martis Creek near	314-316
Martis Creek Lake near	313
Prosser Creek below Prosser Creek Dam,	
near	318,319
Prosser Creek Reservoir, near	317
Sagehen Creek, near	322-325
Stampede Reservoir, near	326

Page	Page
Truckee Canal, near Hazen	354
near Wadsworth	353
Truckee River, at Clark	351,352
at Farad	332,333
at Marble Bluff Dam	363,364
at Reno	334-336
at Tahoe City	307,308
at Vista	346-349
below Derby Dam near Wadsworth	355-357
below Tracy	350
near Nixon	358-362
near Sparks	337-339
Upper Truckee River, at Hwy 50 above Meyers	225-227
at South Lake Tahoe	228-232
at South Upper Truckee Road near Meyers	222-224
Truckee Carson River	
Low Flow Investigation	15,394-405
Upper Twin Lake near Bridgeport	118
Vicee Canyon Creek,	
near Sagebrush Ranch near Carson City	156
Virgin River, at Littlefield	48-51
Virgin River basin, gaging-station records in	48-78
Vista, Truckee River at	346-349
WATSTORE data, access to	24
WDR, definition of	30
WSP, definition of	30
Wabuska, Walker River near	133-136
Wadsworth, Truckee Canal near	353
Truckee River below Derby Dam near	355-357
Walker Lake near Hawthorne	117
Walker Lake Basin,	
gaging-station records in	117-136
Walker River near Wabuska	133-136
Ward Creek, at Stanford Rock Trail	
crossing near Tahoe City	246
at State Highway 89, near Tahoe Pines	247-251
below confluence near Tahoe City	245
Warm Springs, Big Creek near	110
West near Moapa	60
Willow Creek near	111
Washoe Lake near Carson City	341
Water Canyon Creek near Preston	52
Water-quality data, explanation of	20-22
Water-quality, ground water	472,473
in Carlin Trend	503,504
Water-quality, partial-record stations	
and miscellaneous sites, analyses of	
samples	406-409
in Carlin Trend	503,504
Water-related reports for Nevada completed	
by the Geological Survey during calendar	
year 1992	31-33
Water temperature	21
Water Use	12
Water year, definition of	30
Weighted average, definition of	30
Wellington, West Walker River	
at Hoyer bridge near	130,131
West Fork Carson River, at Paynesville	145
at Woodfords	143,144
West Walker River, above Topaz Lake	128
at Hoyer bridge, near Wellington	130,131
below Little Walker River near Coleville	124,125
near Coleville	126,127
near Hudson	132
Wet mass, definition of	25
White River, above	
Upper Pahranagat Lake near Alamo	55
near Lund	53
Wild Horse Reservoir near Gold Creek	372
Willow Creek near Warm Springs	111
Winnemucca Lake basin. See Pyramid and	
Winnemucca Lakes basin.	
Woodfords, West Fork Carson River at	143,144
Wood Creek above Jennifer Street near	
Incline Village	254
Wood Creek at mouth near Crystal Bay	255
Zooplankton, definition of	28

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

USGS LIBRARY - RESTON



3 1818 00151187 0

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
333 West Nye Lane
Carson City, NV 89706
