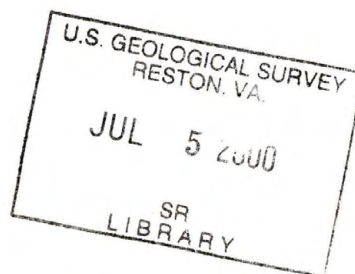
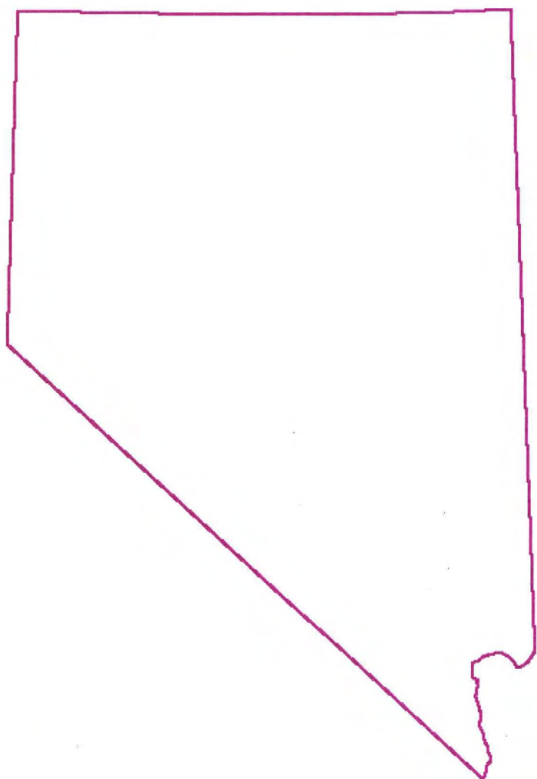


Water Resources Data Nevada Water Year 1999

Water-Data Report NV-99-1



U.S. Department of the Interior
U.S. Geological Survey



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

CALENDAR FOR WATER YEAR 1999

1998

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	4	4	5	6	7			1	2	3	4	5
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	15	17	18	19
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26
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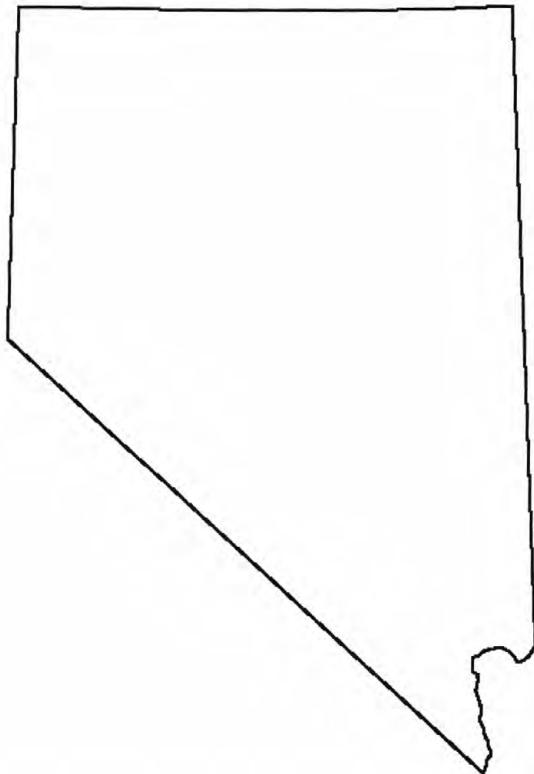
1999

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
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31																				
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18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
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							30	31												
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S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	9	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
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25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		

Water Resources Data Nevada Water Year 1999

By Clifford Z. Jones, Timothy G. Rowe, Robert J. Sexton, Daron J. Tanko

Water-Data Report NV-99-1



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



UNITED STATES DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

GORDON P. EATON, Director

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in Nevada, write to:
District Chief, Water Resources Division
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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 Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources.

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

In addition to the authors, U.S. Geological Survey personnel in Nevada who contributed significantly to the collection and preparation of the data in this report were: Kip K. Allander, David A. Beck, David L. Berger, Steven N. Berris, Laurie J. Bonner, Robert E. Bostic, Ronald P. Collins, Kenneth J. Covay, E. James Crompton, Peggy E. Elliott, Larry P. Etchemendy, Joseph M. Fenelon, Barbie J. Foster-Matsko, Kerry T. Garcia, Gary C. Gortsema, Glen W. Hess, Ray J. Hoffman, Douglas D. Hutchinson, Arthur W. Johnson, Joseph D. Joyner, Richard L. Kane, Richard A. LaCamera, Randell J. Laczniak, Michael S. Lico, Glenn L. Locke, Douglas K. Maurer, Rose L. Medina, Walter E. Nylund, Gary L. Otto, Michael T. Pavelko, Robert N. Pennington, Russell W. Plume, Alan M. Preissler, Steve R. Reiner, George A. Roach, Armando R. Robledo, Donald H. Schaefer, Ronald J. Spaulding, James Schwartzenberger, J. Christopher Stone, James R. Swartwood, Carl E. Thodal, Karen A. Thomas, Douglas A. Trudeau, Sonya L. Vasquez, Craig L. Westenburg, Rhea P. Williams, Jon W. Wilson, and David B. Wood.

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

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Rye Patch Reservoir near Rye Patch, NV (e)	10334500	356
Humboldt River near Rye Patch, NV (d,c,t)	10335000	357
Humboldt River near Lovelock, NV (d,c,t)	10336000	363
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Upper Truckee River at South Upper Truckee Road near Meyers, CA (d,c,t,s)	10336580	395
Grass Lake Creek near Meyers, CA (t)	10336593	399
Upper Truckee River at Highway 50 above Meyers, CA (d,c,t,s)	10336602	401
Upper Truckee River at South Lake Tahoe, CA (d,c,t,s)	10336610	405
Upper Truckee River at mouth near Venice Drive, CA (t)	10336612	409
General Creek near Meeks Bay, CA (d,c,t,s)	10336645	411
Blackwood Creek near Tahoe City, CA (d,c,t,s)	10336660	414
Ward Creek below confluence near Tahoe City, CA (d,c,t,s)	10336674	417
Ward Creek at Stanford Rock Trail Crossing near Tahoe City, CA (d,c,t,s)	10336675	419
Ward Creek at State Highway 89 near Tahoe Pines, CA (d,c,t,s)	10336676	421
Carnelian Creek at Carnelian Bay, CA (d)	10336686	424
First Creek near Crystal Bay, NV (c,t,s)	10336688	425
Second Creek at Lakeshore Drive near Crystal Bay, NV (c,t,s)	10336691	426
Wood Creek above Jennifer Street near Incline Village, NV (c,t,s)	10336692	427
Wood Creek at mouth near Crystal Bay, NV (c,t,s)	10336694	428
Third Creek below Unnamed Tributary near Incline Village, NV (c,t,s)	103366958	429
Third Creek at Village Boulevard at Incline Village, NV (c,t,s)	103366965	430
Third Creek near Crystal Bay, NV (d,c,t,s)	10336698	431
Incline Creek above Tyrol Village near Incline Village, NV (d,c,t,s)	103366993	434
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Incline Creek Tributary at Country Club Drive near Incline Village, NV (c,t,s)	103366997	438
Incline Creek near Crystal Bay, NV (d,c,t,s)	10336700	439
Marlette Lake near Carson City, NV (e)	10336710	444
Marlette Creek near Carson City, NV (d)	10336715	445
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Glenbrook Creek at Glenbrook, NV (d,c,t,s)	10336730	447
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Trout Creek near Tahoe Valley, CA (d,t)	10336780	476
Trout Creek at South Lake Tahoe, CA (c,t,s)	10336790	480
Trout Creek near mouth East near Bellevue/Eldorado Ave, CA (t)	10336795	483
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Independence Lake near Truckee, CA (e)	10342900	496
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Franktown Creek (head of Steamboat Creek) near Carson City, NV (d)	10348460	523
Steamboat Creek:		
Washoe Lake near Carson City, NV (e)	10348700	524
Little Washoe Lake near Steamboat, NV (e)	10348800	525
Galena Creek at Galena State Park, NV (d)	10348850	526
Steamboat Creek at Steamboat, NV (d)	10349300	527
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DISCONTINUED SURFACE-WATER STATIONS

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

Station name	Station number	Drainage area (mi ²)	Period of record
Mesquite Canal near Mesquite, NV	09415060	--	1951-55
Bunkerville Canal near Bunkerville, NV	09415080	--	1951-55
Virgin River above Halfway Wash near Riverside, NV	09415230	5,980	1978, 1980-83
White River near Preston, NV	09415500	--	1985
Preston Big Spring near Preston, NV	09415510	--	1914
Water Canyon Creek near Preston, NV	09415515	11.0	1983-85
White River near Lund, NV	09415550	703	1983-87
Pahrnagat Valley Trib near Hiko, NV	09415600	17.0	1990-94
White River above Upper Pahrnagat Lake near Alamo, NV	09415700	2,630	1990-94
Pahrnagat Wash near Moapa, NV	09415850	252	1988-93
Muddy River Power Diversion near Moapa, NV	09415950	--	1978-85
Muddy River above Moapa Indian Res near Moapa, NV	09416500	3,890	1914-18
Muddy River at Rr Pump Plant near Moapa, NV	09417000	3,900	1915-17
Muddy River at Weiser Ranch near Moapa, NV	09417400	4,360	1916-17
Meadow Valley Wash at Eagle Canyon, near Ursine, NV	09417500	293	1962-75
Meadow Valley Wash near Panaca, NV	09418000	450	1945-50
Mathews Canyon Wash near Caliente, NV	09418200	34.0	1958-84
Pine Canyon Wash near Caliente, NV	09418300	45.0	1958-84
Meadow Valley Wash near Rox, NV	09418700	2,384	1987-94
Muddy River near Overton, NV	09419500	8,180	1913-16, 1948-52
Muddy River above Lake Mead near Overton, NV	09419515	8,310	1979-93
Lee Canyon near Charleston Park, NV	09419610	9.20	1963-94
Las Vegas Wash above Detention Basin near North Las Vegas, NV	09419648	--	1988-93
Las Vegas Wash at North Las Vegas, NV	09419650	1,300	1962-78
Las Vegas Creek at Lamb Blvd near Las Vegas, NV	09419656	46.3	1988-92
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 Montello, NV	10172914	--	1985-90
Snake Creek near Baker, NV	10243230	30.0	1913-15, 1916-17
Baker Creek at Narrows near Baker, NV	10243240	16.4	1947-55
Baker Creek near Baker, NV	10243250	10.0	1993-97
Lehman Creek near Baker, NV	10243260	11.0	1913-16
Franklin River near Arthur, NV	10244720	10.3	1947-55
Overland Creek near Ruby Valley, NV	10244745	9.00	1993-97
Duck Creek near Cherry Creek, NV	10245005	--	1964-83
Currie Spring near Currie, NV	10245030	--	1960-67, 1977-82
Goshute Creek near Cherry Creek, NV	10245040	9.67	1986-88
Illipah Creek near Hamilton, NV	10245445	31.5	1983-86
Newark Valley Trib near Hamilton, NV	10245800	157	1983-87
Stoneberger Creek near Austin, NV	10245925	35.6	1990-94
Big Spring near Duckwater, NV	10246835	--	1962-86
Little Currant Creek near Currant, NV	10246846	12.9	1978-97
Currant Creek at Ranger Station near Currant, NV	10246850	--	1964-81
Currant Creek (at Cazier's Ranch) near Currant, NV	10246860	--	1983-86
Big Warm Spring near Duckwater, NV	10246890	--	1990-94
Duckwater Creek near Duckwater, NV	10246900	--	1913
Upper Hot Creek Ranch Springs near Warm Springs, NV	10246910	0.07	1913-17, 1923
Hot Creek Ranch Springs near Warm Springs, NV	10246920	--	1915-16
Six Mile Creek near Warm Springs, NV	10246930	19	1915-17
Moore's Station Springs at Moore's Station, NV	10246940	136	1967-72
Warm Springs at Warm Springs, NV	10246950	--	1967-73
Hot Creek near Warm Springs, NV	10247050	1,030	1967-73
Big Creek near Warm Springs, NV	10247200	12.0	1991-94
Penoyer Valley Trib near Tempiute, NV	10247860	1.48	1966-77
Eldorado Valley Trib near Nelson, NV	10248510	1.41	1966-77
Willow Creek near Warm Springs, NV	10249190	16.4	1978-92

WATER RESOURCES DATA - NEVADA 1999
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
McClusky Creek near Austin, NV	10249200	11.6	1979, 1981-82
Campbell Creek Trib near Eastgate, NV	10249411	2.14	1964-82
Chiatovich Creek near Dyer, NV	10249900	37.3	1961-82
Beatty Wash near Beatty, NV	10251215	94.6	1989-95
Amargosa River at Highway 95 below Beatty, NV	10251218	470	1963-68 1991-95
Fortymile Wash above East Cat Canyon, Nevada Test Site, NV	10251242	40.8	1991-95
East Cat Canyon Wash at Fortymile Wash, Nevada Test Site, NV	10251243	13.3	1991-95
Unnamed Tributary to Stockade Wash near Rattlesnake Ridge Nevada Test Site, NV	10251248	3.9	1984-95
Stockade Wash near Fortymile Wash, Nevada Test Site, NV	10251249	68.2	1991-95
Fortymile Wash at Narrows, Nevada Test Site, NV	10251250	258	1983-97
Pagany Wash near the Prow, Nevada Test Site, NV	102512531	0.47	1994-95
Pagany Wash #1 near Well UZ-4, Nevada Test Site, NV	102512533	0.82	1992-95
Drillhole Wash above Well UZ-1, Nevada Test Site, NV	102512535	0.68	1994-95
Wren Wash at Yucca Mountain, Nevada Test Site, NV	1025125356	0.23	1994-95
Split Wash below Quac Canyon Wash, Nevada Test Site, NV	102512537	0.33	1993-95
Split Wash at Antler Ridge, Nevada Test Site, NV	1025125372	2.35	1993-95
Fortymile Wash near Well J-13, Nevada Test Site, NV	10251255	304	1983-97
Amargosa River at Highway 127, near CA-NV State Line	10251259	1,542	1993-95
Carson Slough at Ash meadows, NV	10251275	--	1993-97
Peak Spring Canyon Creek near Charleston Peak, NV	10251890	3.09	1977-83 1984-94
Lees Creek near Pahrump, NV	10251900	--	1916
Intermittent Springs near Pahrump, NV	10251950	--	1916
Lovell Wash near Blue Diamond, NV	10251980	52.8	1967-77
Virginia Creek near Bridgeport, CA	10289000	63.6	1954-75
Green Creek near Bridgeport, CA	10289500	19.5	1954-75
Summers Creek near Bridgeport, CA	10290000	8.26	1954-59
Robinson Creek near Bridgeport, CA	10291000	40.2	1911-12
Swauger Creek near Bridgeport, CA	10292000	52.8	1912-15, 1954-75
East Walker River below Sweetwater Creek near Bridgeport, CA	10293050	467	1974-82
East Walker River above Mason Valley near Mason, NV near Mason, NV	10294000	--	1916-18, 1921-24
East Walker River near Yerington, NV	10294500	--	1903-08
East Walker River near Mason, NV	10295000	1,230	1911-16
West Walker River at Leavitt Meadows, near Coleville, CA	10295200	73.0	1945-64
Saroni Canal near Wellington, NV	10298000	--	1920-23
West Walker River near Wellington, NV	10298500	521	1918-24
Desert Creek near Wellington, NV	10299100	50.4	1965-69
Walker River near Nordyke, NV	10300500	--	1895
Walker River near Mason, NV	10300600	2,400	1974-84
Walker River at Mason, NV	10301000	--	1911-16, 1921-23
Walker River at Shurz, NV	10302000	2,850	1914-33
East Fork Carson River above Soda Springs Ranger Station, near Markleeville, CA	10302500	30	1947-51
Silver King Creek near Coleville, CA	10303000	31.6	1947-51
East Fork Carson River at Silver King Valley, near Markleeville, CA	10303500	--	1911-12
Wolf Creek near Markleeville, CA	10304000	11.7	1947-51
Silver Creek below Pennsylvania Creek, near Markleeville, CA	10304500	19.6	1947-67
Silver Creek near Markleeville, CA	10305000	27.3	1911-12
East Fork Carson River near Markleeville, CA	10305500	208	1911-31
Hot Springs Creek near Markleeville, CA	10306000	14.3	1947-57
Hot Springs Creek at Markleeville, CA	10306500	26.7	1912-30
Pleasant Valley Creek above Raymond Canyon Creek near Markleeville, CA	10307000	14.6	1947-50
Pleasant Valley Creek near Markleeville, CA	10307500	25.2	1911-12
Markleeville Creek at Markleeville, CA	10308000	53.7	1911-31
East Fork Carson River at California-Nevada State Line, CA	10308500	300	1911-14
Indian Creek at Woodfords, CA	10309025	1.7	1987-91
Indian Creek at Diamond Valley near Paynesville, CA	10309030	16.15	1987-91
Indian Creek above Mouth near Gardnerville, NV	10309035	25.4	1994-98
Pine Nut Creek near Gardnerville, NV	10309050	10.14	1980-97
Buckeye Creek near Minden, NV	10309070	46.3	1980-97
East Fork Carson River at Minden, NV	10309100	392	1974-84 1994-98
West Fork Carson River above Woodfords, CA	10309500	53	1947-51
Miller Spring near Sheridan, NV	10310350	--	1989-97
West Fork Carson River at Muller Lane near Minden, NV	10310358	--	1994-98
East Branch Brockliss Slough at Muller Lane near Minden, NV	10310402	--	1994-98
West Branch Brockliss Slough at Muller Lane near Minden, NV	10310403	--	1994-98
Carson River at Genoa, NV	10310405	570	1974-82
Vicee Canyon Creek near Carson City, NV	10311250	1.30	1983-85
Vicee Canyon Creek near Sagebrush Ranch near Carson City, NV	10311260	1.83	1984-85 1989-97
Carson River near Empire, NV	10311500	988	1901-07, 1911-23
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

WATER RESOURCES DATA - NEVADA 1999
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
Indian Lakes Canal near Fallon, NV	10312260	--	1967-81
Indian Lakes Canal below East Lake near Stillwater, NV	10312265	--	1979-82
D-line Canal below East Lake near Stillwater, NV	10312267	--	1989
Paiute Drain at Wildlife Entrance near Stillwater, NV	10312270	--	1980-82
TJ Drain at Wildlife Entrance near Stillwater, NV	10312274	--	1989-90
Carson River below Fallon, NV	10312280	--	1967-85
Bishop Creek near Wells, NV	10312500	125	1910-11
Starr Creek near Deeth, NV	10313000	--	1913-24
Marys River at Marys River Cabin, near Deeth, NV	10313500	--	1913-14
Hanks Creek near Deeth, NV	10314000	--	1913-14
Marys River at Buena Vista Ranch, near Deeth, NV	10314500	--	1913-14
Marys River near Deeth, NV	10315000	355	1903, 1912-28
Secret Creek near Halleck, NV	10316000	35.0	1917-24
Lamoille Creek near Halleck, NV	10317000	245	1913-19
North Fork Humboldt River near North Fork, NV	10317400	11.0	1965-82
Mahala Creek near Tuscarora, NV	10317420	4.48	1980-85
Mahala Creek at State Hwy 225 near Tuscarora, NV	10317430	22.9	1980-82
Gance Creek near Tuscarora, NV	10317450	6.45	1980-87
Gance Creek at State Hwy 225 near Tuscarora, NV	10317460	20.2	1980-82
North Fork Humboldt River at Devils Gate near Halleck, NV	10317500	830	1914-22, 1944-82
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
Dixie Creek above South Fork Humboldt River near Elko, NV	10320100	159	1989-96
South Fork Humboldt River near Elko, NV	10320500	1,310	1896-1922, 1924-32, 1937-73
Susie Creek near Carlin, NV	10321500	82.5	1956-58
Jack Creek below Indian Creek near Carlin, NV	10321860	10.47	1991-93
Maggie Creek near Carlin, NV	10321970	--	1990-91
Pine Creek near Palisade, NV	10323000	999	1912-14, 1946-58
Humboldt River near Dunphy, NV	10323400	--	1981-83
Humboldt River near Argenta, NV	10323500	7,490	1946-83
Humboldt River below Slaven Ditch near Argenta, NV	10323600	--	1981-84
Rock Creek at Rock Creek Ranch near Battle Mountain, NV	10324000	--	1915, 1917
Reese River near Lone, NV	10325500	53.0	1951-80
Reese River near Berlin, NV	10326000	94.0	1913-16
Big Creek near Austin, NV	10326500	9.0	1914, 1916
Reese River near Austin, NV	10326700	1,130	1964-68
Fish Creek near Battle Mountain, NV	10326800	64.7	1977-85
Humboldt River near Valmy, NV	10327000	--	1950-58
Pole Creek near Golconda, NV	10328000	10.7	1961-74
North Fork Little Humboldt River near Paradise Valley, NV	10328450	210	1976-82
South Fork Little Humboldt River near Paradise Valley, NV	10328475	431	1976-83
Little Humboldt River below Chimney Dam near Paradise Valley, NV	10328500	780	1942-51, 1975-82
Cottonwood Creek near Paradise Valley, NV	10330000	--	1925-34
Cottonwood Creek at Paradise Valley, NV	10330500	57.4	1945-51
Humboldt River near Winnemucca, NV	10330900	14,600	1961-64
Humboldt River near Rose Creek, NV	10331500	15,200	1948-70
H L I L & P Company Feeder Canal near Mill City, NV	10332490	--	1914-31, 1937-38
H L I L & P Company Feeder Canal near Imlay, NV	10332500	--	1947-77
Humboldt River near Humboldt, NV	10333500	--	1933
H L I L & P Company Outlet Canal near Humboldt, NV	10334000	--	1914-20, 1922-41
Lower Humboldt Drain near Lovelock, NV	10336050	--	1965-66
Upper Truckee River near Meyers, CA	10336600	33.1	1961-86
Fallen Leaf Lake near Camp Richardson, CA	10336625	16.7	1969-92
Taylor Creek near Camp Richardson, CA	10336626	16.7	1969-92
Edgewood Creek Trib near Daggett Pass, NV	10336756	--	1981-83
Trib Of Edgewood Creek Trib near Tahoe Village, NV	10336757	--	1981-83
Edgewood Creek Trib at Highland Drive near Tahoe Village, NV	10336758	--	1981-83
Edgewood Creek near Stateline, CA	10336759	3.2	1983-87
Edgewood Creek at Lake Tahoe near Stateline, CA	10336765	5.50	1989-92
Summit Creek above Donnor Lake near Truckee, CA	10338100	4.96	1998
Donner Creek near Truckee, CA	10339000	29.4	1902-15, 1928-43
Truckee River above Prosser Creek near Truckee, CA	10339419	36.1	1993-98
South Fork Prosser Creek near Truckee, CA	10339500	6.37	1910
Prosser Creek at Hobart Mills, CA	10339700	27.4	1959-63
Alder Creek near Truckee, CA	10339900	7.47	1959-69, 1971-73
Prosser Creek near Truckee, CA	10340000	47.4	1904, 1908-12
Webber Creek near Truckee, CA	10341000	14.7	1910

WATER RESOURCES DATA - NEVADA 1999
DISCONTINUED SURFACE-WATER STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Period of record
Little Truckee River near Truckee, CA	10341500	32.3	1910
Little Truckee River below Diversion Dam near Sierraville, CA	10341950	36.1	1993-98
Dog Creek near Verdi, CA	10347300	16.2	1956-61
Little Truckee River near Hobart Mills, CA	10342000	37.1	1947-72
Little Truckee River at Highway 89 near Truckee, CA	10343200	59.0	1993-94
Bronco Creek at Floriston, CA	10345700	15.4	1993-98
Truckee River near Essex, NV	10347000	991	1889
Truckee River at Loughtons, CA	10347500	1,050	1890
Hunter Creek near Reno, NV	10347600	11.5	1962-72, 1978-81
Hunter Creek above Last Chance Ditch near Reno, NV	10347620	11.7	1993-95
Peavine Creek near Reno, NV	10347800	2.34	1963-74
Orr Ditch at Spanish Springs Valley near Sparks, NV	10348220	--	1992-95
North Truckee Drain at Spanish Springs Road near Sparks, NV	10348245	80.0	1992-95
Franktown Creek at Franktown, NV	10348500	14.0	1948-55, 1958
Galena Creek near Steamboat, NV	10348900	8.5	1961-94
Steamboat Creek at Steamboat Springs, NV	10349500	123	1900-01
Whites Creek near Steamboat, NV	10349700	8.02	1962-66
Truckee River below Tracy, NV	10350400	1,590	1972-97
Truckee River at Clarks, NV	10350500	--	1907-15
Fernley A-Drain near Fernley, NV	10351350	--	1969-80
'A' Drain at Powerline Crossing near Fernley, NV	10351356	--	1989-90
Truckee River near Wadsworth, NV	10351800	--	1902-05
East Fork Quinn River near McDermitt, NV	10353000	140	1949-82
Quinn River near McDermitt, NV	10353500	1,100	1949-85
Kings River near Orvada, NV	10353600	20.5	1962-68, 1976-95
Quinn River near Denio, NV	10353650	3,520	1964-67, 1978-81
Leonard Creek near Denio, NV	10353700	52.0	1961-83
Red Mountain Creek near Gerlach, NV	10353790	30.0	1967-68
Badger Creek Trib near Vya, NV	10361700	7.70	1964-72
Wildhorse Reservoir near Gold Creek, NV	13174000	209	1938-96
Owyhee River at Patsville, NV	13174900	305	1972-75
Owyhee River at Mountain City, NV	13175000	350	1913-14, 1927-49
Owyhee River near Owyhee, NV	13175500	380	1914-26
Owyhee River above China Diversion Dam near Owyhee, NV	13176000	458	1939-84
Jack Creek below Schoonover Creek near Tuscarora, NV	13176900	19.8	1962-69
Jack Creek near Tuscarora, NV	13177000	31.0	1913-25
South Fork Owyhee River at Spanish Ranch near Tuscarora, NV	13177200	330	1959-74
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 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS

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

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

WATER RESOURCES DATA - NEVADA 1999
DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Pine Creek near Belmont, NV	10245900	CH, TE	1969
Mosquito Creek near Belmont, NV	10245910	CH, TE	1979-84
Stoneberger Creek near Austin, NV	10245925	CH, TE	1979-84
Lower Currant Creek near Currant, NV	10246846	CH, TE	1977-81
Willow Creek near Warm Springs, NV	10249190	CH, TE	1979-84
McClusky Creek near Austin, NV	10249200	CH, TE	1978-81
Kingston Creek below Cougar Canyon near Austin, NV	10249280	CH, TE	1977-84
North Twin River near Round Mountain, NV	10249295	CH, TE, SE, BI	1986
South Twin River near Round Mountain, NV	10249300	CH, TE, SE, BI	1967-96
Chiatovich Creek near Dyer, NV	10249900	CH, TE, SE, BI	1974-82
			1987-88
			1990
Amargosa River at Highway 95 below Beatty, NV	10251218	CH, TE	1993
Amargosa River near Beatty, NV	10251220	CH	1993
Unnamed Tributary-Stockade Wash near Rattlesnake Ridge, NTS, NV	10251248	CH, TE	1992-93
Stockade Wash at Airport Road, NTS, NV	102512484	CH, TE	1993
Yucca Wash near Mouth, Nevada Test Site, NV	10251252	CH, TE	1993
Pagany Wash Number 1, NTS, NV	102512533	CH, TE	1993
Cane Spring Wash Tributary below Skull Mountain, NTS, NV	102512654	CH, TE	1993
Amargosa River near Eagle Mountain below Death Valley Junction, CA	10251280	CH, TE	1993
Robinson Creek at Twin Lakes Outlet near Bridgeport, CA	10290500	CH, TE	1994-95
Buckeye Creek near Bridgeport, CA	10291500	CH, TE, SE	1977-79
			1995
East Walker River near Bridgeport, CA	10293000	CH, TE, BI	1959-71
			1973-85
			1994-95
East Walker River above Strosnider Drive near Mason, NV	10293500	CH, TE	1977-80
			1994-95
West Walker River at Highway 108 Bridge below Pickel Meadow, CA	10295300	TE, SE	1995
Little Walker River near Bridgeport, CA	10295500	CH, TE, SE	1977-85
			1990
			1995
West Walker River below Little Walker River near Coleville, CA	10296000	CH, TE, SE	1961-66
			1969-71
			1973-80
			1987-88
			1990
			1994-95
West Walker River near Coleville, CA	10296500	CH, TE	1977-84
			1994-95
West Walker River above Topaz Lake at Topaz, CA	10296650	CH, TE	1990-96
Topaz Lake near Topaz, CA	10297000	CH, TE	1994
West Walker River at Hoye Bridge near Wellington, NV	10297500	CH, TE	1977-96
West Walker River near Hudson, NV	10300000	CH, TE	1977-80
			1982
			1994-95
Walker River near Mason, NV	10300600	CH, TE	1977-84
East Drain above Mason Valley Wildlife Management Area near Yerington, NV	10301180	CH, TE	1994
Perk Slough at Mason Valley Wildlife Management Area Boundary near Wabuska, NV	10301280	CH, TE	1994
West Branch Spragg-Alcorn-Bewley Ditch at Sierra Way near Wabuska, NV	10301470	CH, TE	1994
Wabuska Drain at Sierra Way near Wabuska, NV	10301480	CH, TE	1994
Wabuska Drain above Confluence Walker River near Parker Butte near Wabuska, NV	10301495	CH, TE	1994
Walker River near Wabuska, NV	10301500	CH, TE, SE, BI	1969-95
Walker River above Weber Reservoir near Schurz, NV	10301600	CH, TE	1976-81
			1994
Weber Reservoir near Schurz, NV	10301700	CH, TE	1994
Walker River below Weber Reservoir near Schurz, NV	10301710	CH, TE	1977-80
Walker River above Canal 1-2 Diversion Weir near Schurz, NV	10301740	CH, TE	1994
Walker River at Little Dam Weir above Schurz, NV	10301750	CH, TE	1977-81
Lateral 1A above Highway 95 at Schurz, NV	10301765	CH, TE	1994-95
Lateral 2A at Takeout near Schurz, NV	10301770	CH, TE	1994-95
Lateral 2D below Schurz, NV	10301780	CH, TE	1994
Walker River at Schurz, NV	10302000	CH, TE	1994-95
Walker River at Lateral 2-A Siphon near Schurz, NV	10302002	CH, TE, SE	1994-95
Walker River at Powerline Crossing near Schurz, NV	10302005	CH, TE, SE	1994-95
Walker River near Mouth at Walker Lake, NV	10302025	CH, TE	1994-95
East Fork Carson River Below Markleeville Creek near Markleeville, CA	10308200	CH, TE, SE, BI	1966-70
			1977-81
			1992, 1998
East Fork Carson River above above Bryant Creek near Gardnerville, NV	10308525	CH, TE, SE	1998
Leviathan Creek above Mine near Markleeville, CA	10308783	CH, TE	1980-82
Leviathan Mine Tunnel Spring near Markleeville, CA	10308784	CH, TE	1980-82
Leviathan Mine Pit Flow near Markleeville, CA	10308785	CH, TE	1980-82
Leviathan Mine Waste Flow near Markleeville, CA	10308786	CH, TE	1980-82
Leviathan Mine Seep below Crusher near Markleeville, CA	10308787	CH, TE	1981-82
Leviathan Creek below Delta near Markleeville, CA	10308788	CH, TE	1981-82
Leviathan Creek below Mine near Markleeville, CA	10308790	CH, TE	1980-82
Bryant Creek below Mountaineer Creek near Markleeville, CA	10308794	CH, TE, SE	1982, 1998

WATER RESOURCES DATA - NEVADA 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Bryant Creek near Gardnerville, NV	10308800	CH, TE, SE	1979, 1982-1998
Bryant Creek above East Fork Carson River near Gardnerville, NV	10308875	CH, TE, SE	1998
East Fork Carson River below Bryant Creek near Gardnerville, NV	10308900	CH, TE, SE	1998
East Fork Carson River near Gardnerville, NV	10309000	CH, TE, SE, BI	1977-84-1987-96
East Fork Carson River near Dresslerville, NV	10309010	CH, TE, SE	1993-98
East Fork Carson River at Riverview Drive Bridge near Dresslerville, NV	10309089	CH, TE, SE	1998
East Fork Carson River at Minden, NV	10309100	CH, TE, BI	1977-84-1994-95
West Fork Carson River above Woodfords, CA	10309500	BI	1994-95
West Fork Carson River at Woodfords, CA	10310000	CH, TE, SE, BI	1961-84-1987-88-1990
West Fork Carson River at Paynesville, CA	10310200	CH, TE, BI	1992-96
West Fork Carson River near Dresslerville, NV	10310355	CH, TE	1990-91
West Fork Carson River at Muller Lane near Minden, NV	10310358	BI	1994-95
Daggett Creek near Genoa, NV	10310400	TE	1981
Carson River at Genoa, NV	10310405	CH, TE	1977-81
Carson River at Cradlebaugh Bridge near Genoa, NV	10310450	TE, SE	1983, 1988
Clear Creek Near Carson City, NV	10310500	CH, TE	1987-89-1996-97
Carson River at McTarnahan Bridge near Carson City, NV	10310800	CH	1992
Carson River near Carson City, NV	10311000	CH, TE, SE, BI	1977-84-1990-96
North Fork Kings Canyon Creek near Carson City, NV	10311090	CH, TE	1996-97
Kings Canyon Creek near Carson City, NV	10311100	CH, TE	1977-84-1996-97
Ash Canyon Creek near Carson City, NV	10311200	CH, TE	1977-84-1996-97
Eagle Valley Creek at Carson City, NV	10311300	SE	1997
Gold Canyon Creek at Dayton, NV	10311710	CH, TE, SE	1998
Six Mile Canyon Creek at Highway 50 near Dayton, NV	10311725	CH, TE, SE	1998
Carson River near Silver Springs, NV	10312020	CH, TE, SE	1962-70-1993-95
Carson River 2.8 miles below Highway 95 near weeks, NV	10312025	CH, TE, SE	1998
Carson River near mouth at Lahontan Reservoir, NV	10312030	CH, TE, SE	1998
Carson River below Lahontan Reservoir near Fallon, NV	10312150	CH, TE, SE	1971-1977-84-1986-89-1994-98
Carson River Diversion Dam Outflow at V-Canal near Fallon, NV	10312155	CH, TE, SE	1998
Sheckler Reservoir at Outlet near Fallon, NV	10312165	CH, TE, SE	1986-88
Upper Westside Drain at Candee Lane near Fallon, NV	10312167	CH, TE	1988
Holmes Drain at Gage near Fallon, NV	10312170	CH, TE	1987-89-1994
G-line Extension on Drain at US 95 near Fallon, NV	10312171	CH, TE	1987-89
Sheckler Drain at St. Clair Road near Fallon, NV	10312172	CH, TE	1988
South Branch Carson River at St. Clair Road near Fallon, NV	10312173	CH, TE	1988
Harrigan Road Drain above Upper Diagonal Drain near Fallon, NV	10312176	CH, TE	1988
"L" Drain above Diagonal Drain near Fallon, NV	10312178	CH, TE	1988
Pasture Road Drain above Diagonal Drain near Fallon, NV	10312181	CH, TE	1988
Lower Diagonal Drain at Pasture Road near Fallon, NV	10312182	CH, TE, SE	1971, 1988-1994-96
"L" Drain above Lee Drain near Fallon, NV	10312183	CH, TE, SE	1987-88-1994-96
L 12 Canal above Macari Lane near Fallon, NV	1031218750	CH, TE, SE	1995-96
Lower Diagonal Drain at Highway 50 near Fallon, NV	10312190	CH, TE	1986-88-1995
Lower Diagonal Drain at Gage near Stillwater, NV	10312200	CH, TE	1988
S-Line Reservoir Outflow near Fallon, NV	1031220120	CH, TE, SE	1998
Harmon Reservoir Outflow near Fallon, NV	1031220130	CH, TE, SE	1998
New River Canal below New River Slough near Stillwater, NV	10312206	CH, TE	1988
Stillwater Point Diversion Drain near Stillwater, NV	10312215	CH, TE, SE	1986-90
Stillwater East-West Canal below Outlet near Stillwater, NV	10312216	CH, TE, SE	1988, 1998-1971
Stillwater Slough Cutoff Drain near Stillwater, NV	10312220	CH, TE, SE	1977-78-1986, 1996-1998
D-Line Canal at Sagouspe Dan near Fallon, NV	10312256	CH, TE, SE	1998
D-Line Canal below East Lake near Stillwater, NV	10312267	CH, TE, SE	1987-89
Carson River at Tarzyn Road near Fallon, NV	10312275	CH, TE, SE	1992-95-1998
Dixie Creek above South Fork Humboldt River near Elko, NV	10320100	SE	1990-96
Fish Creek near Battle Mountain, NV	10326800	CH, TE	1977-84
Humboldt River near Golconda, NV	10327800	CH, TE	1990-91
North Fork Little Humboldt River near Paradise Valley, NV	10328450	CH, TE	1977-82
South Fork Little Humboldt River near Paradise Valley, NV	10328475	CH, TE	1978-82
Little Humboldt River below Chimney Dam near Paradise Valley, NV	10328500	CH, TE	1978, 1980-82

WATER RESOURCES DATA - NEVADA 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Little Humboldt River near Paradise Valley, NV	10329000	CH, TE	1977-84
Martin Creek near Paradise Valley, NV	10329500	CH, TE	1977-84
Cottonwood Creek near Paradise Valley, NV	10330000	CH, TE, SE	1977
Humboldt River near Humboldt, NV	10333500	CH, TE	1971
Rye Patch Reservoir near Rye Patch, NV	10334500	CH, TE	1990-91
Lovelock Drain above Graveyard Drain near Lovelock, NV	10335750	CH, TE	1990-91
Bradys Hot Springs Creek at Road Crossing at Bradys Hot Springs, NV	10336150	CH, TE	1988
Big Meadow Creek above Highway 89, CA	103365932	CH, TE, SE	1996-97
Upper Truckee River at mouth - east channel	103366117	CH, TE, SE	1996-97
Taylor Creek at Highway 89 near Camp Richardson	10336628	CH, TE, SE	1998
Blackwood Creek below North Fork Blackwood Creek near Tahoe City, CA	103366594	CH, TE, SE	1989
Blackwood Creek at Blackwood Canyon Road near Tahoe City, CA	103366596	CH, TE, SE	1989
First Creek above Len Way near Incline Village, NV	10336683	CH	1980
First Creek above Dale Drive near Incline Village, NV	10336685	CH, TE, SE	1980-81
Dale Drive Ditch at First Creek near Incline Village, NV	10336686	CH, TE, SE	1980-81
Dale Drive Ditch near Incline Village, NV	10336687	CH, TE, SE	1980-81
Second Creek near Crystal Bay, NV	10336690	CH, TE, SE	1970-73
West Fork Second Creek at Lakeshore Drive near Crystal Bay	103366905	CH, TE, SE	1995-97
Wood Creek near Crystal Bay, NV	10336693	CH, TE, SE	1970-73
Third Creek at Incline Village, NV	10336696	CH, TE, SE	1970-73
Third Creek at Highway 28 at Incline Village, NV	10336697	CH, TE, SE	1989
Incline Creek Tributary at Highway 28 at Incline Village, NV	103366999	CH, TE, SE	1989, 1990
Marlette Creek near Carson City, NV	10336715	CH, TE	1977-84 1990-91
Glenbrook Creek at US 50 near Glenbrook, NV	10336720	CH, TE, SE	1989
Logan House Creek at Lake Tahoe near Glenbrook, NV	10336745	CH, TE, SE	1989
Tributary of Edgewood Creek Tributary near Tahoe Village, NV	10336757	CH, TE, SE	1982-83
Edgewood Creek Tributary at Highland Drive near Tahoe Village, NV	10336758	CH, TE, SE	1981-83
Sediment Catchment Basin near Tahoe Village, NV	103367595	CH, TE, SE	1985
Edgewood Creek below Highway 50 near Stateline, NV	10336761	CH, TE, SE	1984-85 1989, 1992
Truckee River at Tahoe City, CA	10337500	CH, TE	1991-93
Squaw Creek at Squaw Valley Road at Squaw Valley, CA	10337850	CH, TE	1980
Squaw Creek at Highway 89, near Squaw Valley, CA	10337855	CH, TE	1991-92
Truckee River Tributary near Truckee, CA	10337900	CH, TE	1991
Truckee River near Truckee, CA	10338000	CH, TE	1992
Truckee River above Donner Creek, near Truckee, CA	10338010	CH	1991
Donner Creek at Donner Lake near Truckee, CA	10338500	CH, TE	1980
Donner Creek near Truckee, CA	10339000	CH, SE	1980
Donner Creek at Mouth, near Truckee, CA	10339003	CH, TE	1991-92
Truckee River at Highway 267, at Truckee, CA	10339010	CH, TE	1980 1991-92
Martis Creek at Highway 267 near Truckee, CA	10339250	CH, TE, SE	1973-86
Martis Creek near Mouth, at Truckee River near Truckee, CA	10339405	CH, TE	1980 1991-92
Truckee River above Prosser Creek near Truckee, CA	10339419	CH, TE	1994-98
Truckee River at Old US 40 Bridge, below Truckee, CA	10339498	CH, TE	1980 1991-92
Prosser Creek below Prosser Creek Dam, CA	10340500	TE	1993-98
Little Truckee River below Boca Dam near Truckee, CA	10344500	TE	1993-98
Truckee River at Boca Bridge near Truckee, CA	10344505	CH, TE	1980
Truckee River near Hirschdale Dump near Hirschdale, CA	10344992	CH, SE	1980
Truckee River below Hirschdale Dump near Hirschdale, CA	10344993	CH, SE	1980
Truckee River at Floriston Dam, near Floriston, CA	10345909	CH, TE	1980 1991-92
Truckee River below Farad Powerhouse at Farad, CA	10345980	CH, TE	1992
Truckee River at Farad, CA	10346000	CH, TE, SE, BI	1960-61 1967-81 1992-96 1997-98 1994-95
Truckee River near Essex, NV	10347000	BI	1994-95
Truckee River at Crystal Peak Park at Verdi, NV	10347050	CH, TE, BI	1980
Dog Creek at Verdi, NV	10347310	CH, TE	1991
Truckee River at Bridge Street Bridge at Verdi, NV	10347320	CH, TE	1980, 1992
Truckee River below Viking Plant near Verdi, NV	10347335	CH, SE	1980
Truckee River near Verdi, NV	10347336	CH, TE, SE	1980
Truckee River Intragravel near Verdi, NV	10347337	CH, TE	1980
Truckee River near Mogul, NV	10347460	CH, TE	1992
Hunter Creek Reservoir Drain at Mayberry Drive at Reno, NV	10347615	CH, TE	1992
Truckee River at Circle Creek Ranch near Reno, NV	10347640	CH, TE	1992
Truckee River at Mayberry Drive below Lawton, NV	10347690	CH, TE, SE, BI	1979-80 1992
Truckee River at Idlewild Park at Reno, NV	10347705	CH, TE, BI	1992 1994-95
Peavine Creek near Reno, NV	10347800	CH, TE, SE	1967 1969-71 1973-74
Truckee River in Wingfield Park at Reno, NV	10347861	CH, SE	1980
Highland Plant Spill at Arlington Bridge at Reno, NV	10347870	CH, TE	1992

WATER RESOURCES DATA - NEVADA 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Truckee River at Reno, NV	10348000	CH, TE, SE, BI	1977-84, 1989-94, 1996-98
Truckee River near Sparks, NV	10348200	CH, TE, SE, BI	1979-80 1992-95
Truckee River Intragravel near Sparks, NV	10348201	CH, TE	1980
Orr Ditch above Spanish Springs Valley near Sparks, NV	10348215	CH, TE	1980
Orr Ditch at Spanish Springs Valley near Sparks, NV	10348220	CH, TE	1995, 1998
North Truckee Drain at Spanish Springs Road near Sparks, NV	10348245	CH, TE	1980, 1995
Franktown Creek near Carson City, NV	10348460	CH, TE	1977-84
Washoe Lake near Carson City, NV	10349980	CH, TE	1980-84
Little Washoe Lake near Steamboat, NV	10348800	CH, TE	1980-83
Galena Creek near Steamboat, NV	10348900	CH, TE	1977-1984
Steamboat Creek at Steamboat, NV	10349300	CH, TE	1971, 1977-80 1982-83
Steamboat Creek below Steamboat Ditch at Steamboat, NV	10349490	CH, TE	1980
Boynton Slough above Boynton Lane near Reno, NV	10349880	CH, TE	1980
Dry Creek above Steamboat Ditch near Reno, NV	10349910	CH, TE, SE	1995
Dry Creek at Huffaker Lane near Reno, NV	10349920	CH, TE	1980
Dry Creek at Boynton Slough near Reno, NV	10349960	CH, TE	1980
Pioneer Ditch at University Farms near Reno, NV	10349975	CH, TE	1980
FWM 31: Pioneer Ditch at Jones Ranch near Sparks, NV	10349979	CH, TE	1980
Steamboat Creek at Cleanwater Way near Reno, NV	10349980	CH, TE	1994-97, 1998
Pioneer Ditch Return No. 2 below Kimlick Lane near Reno, NV	10349986	CH	1980
Reno-Sparks STP Outfall near Reno, NV	10349989	CH, TE	1979-80
Reno-Sparks STP Outfall at Reno, NV	10349995	CH, TE	1994-1998
Truckee River at Vista, NV	10350000	CH, TE, SE, BI	1969 1977-80 1982-84 1992-94
Truckee River at Rest Area near Vista, NV	10350010	CH, TE	1992
Truckee River at Lockwood, NV	10350050	CH, TE, SE, BI	1974-81, 1984, 1992, 1994-95
Diversion to Grass Field at Lockwood, NV	10350145	CH	1980
Return from Grass Field at Lockwood, NV	10350146	CH	1980
Truckee River at Mustang Bridge No. 1 near Hafed, NV	10350153	CH, TE	1984, 1991
Truckee River at Patrick, NV	10350200	CH, TE, BI	1979-80 1984, 1992
Diversion to Grass Pasture below Patrick, NV	10350325	CH	1980
Return from Grass Pasture below Patrick, NV	10350326	CH	1980
Truckee River below Tracy, NV	10350400	CH, TE, BI	1979-80 1982-84 1992
Truckee River at Derby Dam, NV	10351000	CH, TE, BI	1979-80
Truckee Canal at US 95 alternate near Fernley, NV	10351320	CH, TE, BI	1979-80 1988-89
Fernley Check Dam near Fernley, NV	10351322	CH, SE	1980
Fernley Drain at US 95-alternate near Fernley, NV	10351335	CH, TE	1988-89
"A" Drain at US 50-alternate near Fernley, NV	10351345	CH, TE	1988-89
Streiff Drain at US 50-alternate near Fernley, NV	10351353	CH, TE	1988-89
'A' Drain at Powerline Crossing near Fernley, NV	10351356	CH, TE, SE	1988-90
Truckee Canal at Allendale Check Dam near Hazen, NV	10351367	CH, TE, BI	1980
Truckee Canal near Hazen, NV	10351400	CH, TE, SE, BI	1979
Truckee Canal at US 50 above Lahontan Reservoir, NV	10351590	CH, TE, SE, BI	1979-81
Truckee River below Derby Dam near Wadsworth, NV	10351600	CH, TE, SE, BI	1978-80 1983, 1992-95
Truckee River at Painted Rock Bridge, NV	10351619	CH, TE, BI	1980, 1992
Diversion to Alfalfa Field at Wadsworth, NV	10351643	CH, SE	1980
Return from Alfalfa Field at Wadsworth, NV	10351644	CH, SE	1980
Herman Return near Wadsworth, NV	10351646	CH, TE, BI	1980
Truckee River at Old US 40 Bridge at Wadsworth, NV	10351648	CH, TE, SE, BI	1979-80, 1992
Truckee River below S-S Ranch near Wadsworth, NV	10351684	CH, TE	1980, 1992
Truckee River Intragravel below S-S Ranch near Nixon, NV	10351685	CH, TE	1980
Truckee River at Dead OX Wash near Nixon, NV	10351690	CH, TE, SE, BI	1979-80 1991-95
Truckee River Intragravel at Dead Ox near Nixon, NV	10351691	CH, TE	1980
Truckee River near Nixon, NV	10351700	CH, TE, SE, BI	1960-98
Truckee River at Numana Dam near Nixon, NV	10351725	CH, SE	1980
Truckee River at Highway 447 at Nixon, NV	10351750	CH, TE, SE, BI	1964, 1968 1978-80 1988 1991-95
Truckee River at Marble Bluff Dam near Nixon, NV	10351775	CH, TE, BI	1979-80, 1992
Truckee River Fishway at Marble Bluff Dam near Nixon, NV	10351778	CH, TE, BI	1979

WATER RESOURCES DATA - NEVADA 1999
DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Truckee River below Marble Bluff Dam near Nixon, NV	10351780	CH, TE, SE	1979
Truckee River Delta at Pyramid Lake, NV	10351793	CH, SE	1980
Truckee River Delta at Pyramid Lake, NV	10351795	SE	1979
McDermitt Creek near McDermitt, NV	10352500	CH, TE, SE, BI	1975-84
East Fork Quinn River near McDermitt, NV	10353000	CH, TE	1977-81
Quinn River near McDermitt, NV	10353500	CH, TE, SE, BI	1977-86
Kings River near Orovada, NV	10353600	CH, TE	1977-84
Quinn River near Denio, NV	10353650	CH, TE	1978
Leonard Creek near Denio, NV	10353700	CH, TE	1977-83
			1987-88
Mahogany Creek near Summit Lake, NV	10353750	CH, TE	1987-88, 1990
Smoke Creek at BM 4044 near Gerlach, NV	10353799	CH, TE	1990
Cottonwood Creek near Flanigan, NV	10353970	CH, TE	1988
Willow Spring Creek near Flanigan, NV	10353975	CH, TE	1988
Mullen Creek near Flanigan, NV	10353978	CH, TE	1988
Owyhee River near Gold Creek, NV	13174500	CH, TE	1977-84
Owyhee River at Mountain City, NV	13175000	CH, TE	1985
Owyhee River above China Diversion Dam near Owyhee, NV	13176000	CH, TE	1977-85
South Fork Owyhee River near Whiterock, NV	13177800	CH, TE	1977-81
Las Vegas Bay Sample Site above Gypsum Wash	360748114520301	CH, TE, SE	1992
Amargosa River near Evelyn, CA	361012116192801	CH	1988
Carpenter Canyon Creek	361440115430901	CH, TE	1987-89
Carson Slough at Stateline Road near Death Valley Junction	361910116224201	CH, TE	1988, 1993
Carson Slough at Spring Meadow Road at Ash Meadows, NV	362453116214501	CH	1988
212 S17 E60 05	362957115172001	CH, SE	1986
212 S16 E59 15	363406115213401	CH, SE	1986
219 S14 E64 12	364357114460501	CH, SE	1986
40-mile Wash at J-12	364551116233700	CH	1984
Busted Butte Wash	364749116235100	CH	1984
40-mile Wash at Road H	364904116234700	CH, TE	1984
40-mile Wash above Drill Hole Wash	364908116234600	CH	1984
Drill Hole Wash at Mouth	364911116235200	CH	1984
222 S12 E69 32	365105114180701	CH, SE	1986
Delirium Canal at Mouth	365513116222901	CH	1993, 1995
Yucca Lake	365600116010000	CH, TE	1978
Pah Canyon above Mouth	365634116221501	CH	1993, 1995
Whiterock Creek	371209116075201	CH	1973
Meadow Valley Wash above Delmues Spring	375140114191801	TE	1985
Kawich Creek near Antler	375731116253800	CH, TE	1985-86
Kawich Creek above Weir	375736116252900	CH, TE	1985-92
Kawich Creek near Big Seep	375736116255201	CH, TE	1985-92
Lost Hammer	375739116253100	CH, TE	1985
MVW above Eagle Canyon River	380140114110901	CH	1985
Stream-Reveille V Ertec	380630116201901	CH	1981
Camp Creek	381437114150801	CH, TE	1985
Wilson Creek	381905114241201	CH, TE	1985
Creek near Upper Pony Spring	381917114383501	CH, TE	1985
B6-VFT-1/Ertec Big Sand	383131116022401	CH, TE	1981
Leviathan Creek 1200 Feet Upstream Site 10308783 above Leviathan Mine	384157119391301	CH, TE	1998
Aspen Creek above Leviathan Mine near Markleeville, CA	384235119385001	CH, TE	1998
Desert Creek at State Highway 22, NV	384250119190000	CH, TE	1973
Aspen Creek above Leviathan Creek near Markleeville, CA	384301119393001	CH, TE	1998
Leviathan Creek above Aspen Creek near Markleeville, CA	384303119393901	CH, TE	1998
Mountaineer Creek above Leviathan Creek near Markleeville, CA	384407119384101	CH, TE	1998
Leviathan Creek above Mountaineer Creek near Markleeville, CA	384407119384201	CH, TE	1998
Bryant Creek above Barney Riley Creek near Markleeville, CA	384505119384001	CH, TE	1998
Fredricksburg Canyon	384941119485101	TE	1981
Fredricksburg Canyon	384941119485102	TE	1981
Little Currant Creek	385004115212901	CH, TE	1983
Swallow Canyon, below	385030114205901	CH	1983
Swallow Canyon, above	385033114205201	CH	1983
Luther Canyon	385133119483001	CH	1981
Upper Angora Lake Sample Point near Angora Peak, CA	385145120040301	CH, TE	1997-98
Fallen Leaf Lake Site 2 at Fallen Leaf, CA	385256120040501	CH, TE	1998
East Stewart Creek at Trail	385318117213300	CH, TE	1984-87
East Stewart Creek above Weir	385323117213701	CH, TE	1986-92
Jobs Canyon	385327119502301	CH	1981
Monument Creek	385503119504501	TE	1981
Monument Creek	385503119504502	TE	1981
Culvert-Highway 50 Runoff into Upper Truckee-rb, downstream Highway 50, NV	385521119592201	CH, TE	1995
Mott Canyon	385545119505701	TE	1981
Cascade Lake Sample Site near Center	385618120053101	CH, TE	1997
Edgewood Creek Tributary above Edgewood Clubhouse near Stateline	385758119564401	CH, TE, SE	1992, 1994
Edgewood Creek	385803119560901	CH, TE	1987
Minden Sewage Effluent Discharge to East Fork Carson River	385814119475101	CH, TE, BI	1980
Round Hill Sewage Effluent Discharge to East Fork Carson River	385815119475401	BI	1980
Burke Creek	385816119560001	CH, TE	1987
Round Hill Sewage Effluent Discharge to Williams Slough	385824119480301	CH, TE	1980

WATER RESOURCES DATA - NEVADA 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Kahle Creek	385833119565901	CH, TE	1987
Water Canyon	385902114572401	CH, TE	1983
Genoa Creek at Genoa, NV	390002119505401	CH	1957, 1976
Genoa Canyon	390003119505801	TE	1981
Genoa Canyon	390003119505802	TE	1981
Zephyr Creek	390028119565101	CH, TE	1987
90 N13 E18 03cac 1	390100119564701	CH, TE	1987
Sierra Canyon	390101119505701	CH	1981
Willow Creek	390223114514801	CH, TE	1983-84
Incline Sewage Effluent Discharge to Carson River	390426119460401	CH, TE, BI	1980
Lake Tahoe Sample Point near Chambers Lodge, CA	390427120082201	CH, TE	1998
Lake Tahoe Sample Point at Homewood, CA	390444120090901	CH, TE	1997
Incline Sewage Effluent Discharge near Snyder's Ranch	390523119493101	CH, TE	1980
Lake Tahoe Sample Point - Mid Lake	390618120021101	CH, TE	1997-98
Slaughterhouse Creek	390644119563101	CH, TE	1987
Skunk Creek	390744119563201	CH, TE	1987
Bliss Creek	390835119554801	CH, TE	1987
Carson City STP Discharge	390950119435201	CH, TE	1980
Truckee River at Rampart, near Tahoe City, CA	390954120103700	CH, TE	1991-92
Marlette Lake Sample Site near Center	391033119540301	CH, TE	1997
Carson City Sewage Effluent Discharge to Carson R	391036119422401	CH, TE, BI	1980
Truckee River above Bear Creek, near Alpine Meadows, CA	391108120113900	CH, TE	1991-92
Bear Creek at Mouth, near Alpine Meadows, CA	391125120114900	CH, TE	1991-92
Steptoe Creek	391135114414401	CH, TE	1983
Truckee River at Highway 89 Bridge, near Squaw Valley, CA	391146120115000	CH, TE	1991-92
Truckee River above Squaw Creek, near Squaw Valley, CA	391240120115000	CH, TE	1991-92
Truckee River below Squaw Creek near Squaw Valley, CA	391252120120000	CH, TE	1992
Deer Creek 200 feet above Mouth, near Squaw Valley, CA	391319120115500	CH, TE	1991-92
Silver Creek at Highway 89, near Squaw Valley, CA	391326120120900	CH, TE	1991
Truckee River Tributary 4 Miles Upstream Pole Creek near Squaw Valley, CA	391352120121300	CH, TE	1991
Lake Tahoe Sample Point at Kings Beach, CA	391359120012701	CH, TE	1997
Pole Creek at Mouth, near Squaw Valley, CA	391402120122100	CH, TE	1991-92
Campbell Creek, Smith Creek Valley	391426117394601	CH, TE	1982
Peterson Creek, Smith Creek Valley	391430117313801	CH, TE	1982
Cleve Creek	391446114285801	CH, TE	1983
Unnamed Tributary RB Upstream Deep Creek, near Truckee, CA	391513120123400	CH	1991
Deep Creek above Mouth, near Truckee, CA	391529120123300	CH, TE	1991-92
Truckee River above Rocky Wash, near Truckee, CA	391551120123200	CH, TE	1991
Rocky Wash at Mouth, near Truckee, CA	391557120123200	CH	1991
Cabin Creek at Highway 89, near Truckee, CA	391642120122100	CH, TE	1991-92
Upper Illipah Creek	391654115232401	CH, TE	1983
Carson River at Weeks, NV	391735119150200	CH, TE, SE	1973
Truckee River below Donner Creek near Truckee, CA	391859120115600	CH, TE	1993-94
Truckee River above Trout Creek, near Truckee, CA	391950120100200	CH, TE	1992
Trout Creek at Mouth, near Truckee, CA	391956120095200	CH, TE	1991-1992
Truckee River at Polaris, near Truckee, CA	392018120080300	CH, TE	1991
Carson Lake 1 on Pasture Road near Carson Lake, NV	392106118455601	CH, TE	1991-92
Lower Illipah Creek	392118115201201	CH, TE	1995
Union Valley Creek at Mouth, near Truckee, CA	392133120064000	CH, TE	1983
Juniper Creek at Mouth, near Hirschdale, CA	392152120041700	CH, TE	1991
Truckee River below Juniper Creek, near Hirschdale, CA	392156120041400	CH, TE	1991
DR-SG-NE, Fallon Arsenic	392210118463301	CH, TE	1991-92
Prosser Creek at Mouth, near Truckee, CA	392213120065800	CH	1985
Truckee River below Prosser Creek, near Truckee, CA	392215120065600	CH, TE	1991
Gray Creek at Mouth, near Floriston, CA	392224120014600	CH, TE	1991-92
Truckee River above Bronco Creek, near Floriston, CA	392257120011100	CH, TE	1991-92
Bronco Creek at Mouth, near Floriston, CA	392303120011000	CH, TE	1991-92
Truckee River below Little Truckee River, near Truckee, CA	392304120053400	CH, TE	1991-92
Smith Creek, Smith Creek Valley	392310117390401	CH, TE	1982
L-drain at Pasture Road near Depp Lane near Fallon, NV	392310118432601	CH, TE	1995
Unnamed Drain at Berney and Pasture Roads near Fallon	392410118432801	CH, TE	1995
Steamboat Ditch above Thomas Creek near Reno, NV	392537119474701	CH, TE, SE, BI	1993-95
Upper West Side Drain at Solias Road near Fallon, NV	392552118501101	CH, TE	1995
Lower Diagonal Drain No 1 at US 50 near Fallon, NV	392553118394901	CH, TE	1995
Canyon 24 at Mouth, near Floriston, CA	392555120014800	CH, TE	1991
Mystic Canyon Creek at Mouth, near Floriston, CA	392556120013000	CH, TE	1991
Last Chance Ditch at Thomas Creek Road near Reno, NV	392612119471801	CH, TE, SE, BI	1993-95
Lake Ditch at Holcomb Lane near Reno, NV	392637119465601	CH, TE, SE, BI	1993-95
Puny Dip Canyon at Mouth, near Floriston, CA	392639120002600	CH, TE	1991
Sheckler Drain at St. Clair Road near Fallon, NV	392643118501201	CH, TE	1995
New River Drain at US 50 near Fallon, NV	392646118401601	CH, TE	1995
Truckee River above Fleish Power Diversion, near Verdi, NV	392706120001500	CH, TE	1991
Dry Creek Diversion above Huffaker Lane near Reno, NV	392717119470301	CH, TE, SE, BI	1993-95
Dry Creek below Huffaker Lane near Reno, NV	392720119470101	CH, TE, SE, BI	1993-95
Deep Canyon Creek at Mouth, near Verdi, NV	392724120002300	CH	1991
Steamboat Ditch near Farretto Lane near Reno, NV	392729119485901	CH, TE, SE, BI	1993-95
Last Chance Ditch at Davis Lane near Reno, NV	392737119480801	CH, TE, SE, BI	1993-95
Lake Ditch at Del Monte Lane near Reno, NV	392744119480201	CH, TE, SE, BI	1993-95
New River Drain at Harrigan Road near Fallon, NV	392801118454001	CH, TE	1995

WATER RESOURCES DATA - NEVADA 1999

DISCONTINUED SURFACE WATER-QUALITY STATIONS--Continued

Station name	Station number	Type of data	Period of record
Unnamed Drain at Stuart Road near Harmon Reservoir	392831118385801	CH, TE	1995
Harmon Drain at Ditch House Road near Fallon, NV	392856118363801	CH, TE	1995
Harmon Drain at NV 116 near Fallon, NV	392857118400101	CH, TE	1995
14N43E28ACD	392900117030000	CH, TE	1967
Water from Surface of Carson River	392940118460000	CH	1969
Hunter Creek below Steamboat Ditch near Reno, NV	392942119533700	CH, TE	1992
Truckee River Tributary at Chalk Bluff near Reno, NV	393040119521200	CH, TE	1992
Pioneer Ditch above McCarren Boulevard near Sparks, NV	393055119442800	CH, TE	1992
S2 Canal X Fitz & Swope	393121118342701	CH, TE	1978
SSA Drain at Austin Road near Fallon, NV	393134118371401	CH, TE	1995
T-Line Canal	393143118533301	CH, TE	1984
A Drain above TJ-1 Drain near Stillwater, NV	393201118364901	CH, TE	1995
TJ-1 Drain below A Drain near Stillwater, NV	393202118364701	CH, TE	1995
Swope Drain at Freeman Lane near Stillwater, NV	393256118330201	CH, TE	1995
Paiute Diversion Drain near Fallon Indian Reservation	393331118341801	CH, TE	1995
Kalamazoo Creek	393417114314101	CH, TE	1983
101 N20 E27 19CCBA1	393448119001001	CH, TE	1988-89
Truckee River above Derby Dam near Wadsworth, NV	393520119270700	CH, TE	1992
Inflow to White Lake from Peavine Peak Area	393852119581501	CH, TE	1982
179 N23 E62 13b 1 Egan Creek	395152114552601	CH, TE	1983-84
Minden-Gardnerville STP Discharge	395756119464401	CH, TE	1980
Goshute Creek	400054114480001	CH, TE	1983
Snow Creek	400243114580301	CH, TE	1983
Clear Creek at Diversion Dam South of Winnemucca, NV	404355117392101	CH, TE	1979
Creek at Wheeler Ranch	410651119080001	CH, TE	1980
Louise Creek	411308118293501	CH, TE	1990
Big Creek	411559118215201	CH, TE	1990
Bottle Creek	411919118195701	CH, TE	1990

DISCONTINUED SURFACE-WATER-QUALITY CONTINUOUS RECORD STATIONS

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

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
Virgin River at Littlefield, AZ	09415000	5,090	WT, SC	1950-60, 1965-88
Virgin River above Halfway Wash near Riverside, NV	09415230	5,980	WT, SC	1978-82
Las Vegas Wasteway near East Las Vegas, NV	09419679	--	WT, SC	1980-87, 1979-87
Pahrnagat Valley Wash near Moapa, NV	09415850	252	WT, SC	1988-93
Muddy River near Moapa, NV	09416000	--	WT, SC	1988-93
Meadow Valley Wash near Rox, NV	09418700	2,384	WT, SC	1988-93
Las Vegas Wash above detention basin near North Las Vegas, NV	09419648	--	WT, SC	1989-93
Las Vegas Wash near Henderson, NV	09419700	2,125	WT, SC	1986-87
Las Vegas Wash at powerline crossing below Henderson, NV	09419755	--	WT, SC	1986-87
Las Vegas Wash near Boulder City, NV	09419800	2,193	WT, SC	1979-86 1976-77, 1979-86
Colorado River below Hoover Dam, AZ-NV	09421500	171,700	WT, SC	1980, 1986-87 1986-87
Steptoe Creek near Ely, NV	10244950	11.1	WT	1967-83
South Twin River near Round Mountain, NV	10249300	20.0	WT	1966-68, 1970-83
Chiatovich Creek near Dyer, NV	10249900	37.3	WT	1975-82
Leviathan Creek above mine near Markleeville, CA	10308783	--	WT, SC	1981-82
Leviathan Mine tunnel spring near Markleeville, CA	10308784	--	WT, SC	1981-82
Leviathan Mine pit flow near Markleeville, CA	10308785	--	WT, SC	1982
Leviathan Mine waste flow near Markleeville, CA	10308786	--	WT, SC	1981
Leviathan Mine seep below crusher near Markleeville, CA	10308787	--	WT, SC	1982
Leviathan Creek below delta near Markleeville, CA	10308788	--	WT, SC	1982
Leviathan Creek below mine near Markleeville, CA	10308790	--	WT, SC	1981-82
Bryant Creek below Mountaineer Creek near Markleeville, CA	10308794	--	WT, SC	1982
Bryant Creek near Gardnerville, NV	10308800	31.5	WT, SC	1982-83
East Fork Carson River near Gardnerville, NV	10309000	356	WT, SC	1955-66 1967-72, 1993-96
Carson River near Fort Churchill, NV	10312000	1,302	WT, SC	1962-70, 1972-82, 1994-97
Carson River near Silver Springs, NV	10312020	1,450	WT, SC	1963-71
Carson River below Lahontan Reservoir near Fallon, NV	10312150	1,801	WT	1981-83
Carson Lake Drain above Carson Lake near Fallon, NV	10312180	--	WT, SC	1994-97
Rice Ditch at Gage near Fallon, NV	10312185	--	WT, SC	1994-97
Stillwater Point Diversion Drain near Stillwater, NV	10312215	--	WT, SC, pH, DO	1988-90
Stillwater Slough at Stillwater, NV	10312218	--	WT, SC	1994-97
Paiute Drain above D-line Canal near Stillwater, NV	10312250	--	WT, SC, pH, DO	1988-90 1988-89
D-line Canal below East Lake near Stillwater, NV	10312267	--	WT, SC, pH, DO	1989
TJ Drain at wildlife entrance near Stillwater, NV	10312274	--	WT, SC, pH, DO	1988-90
Humboldt River near Carlin, NV	10321000	4,310	WT	1966-68, 1981-83
Humboldt River at Palisade, NV	10322500	5,010	WT	1962-65
Reese River near Lone, NV	10325500	53	WT	1962
Humboldt River near Rye Patch, NV	10335000	16,100	WT, SC	1952-58, 1960-81 1965-81
Third Creek near Crystal Bay, NV	10336698	6.05	WT, SC	1980-85 1980-84
Truckee River at Tahoe City, CA	10337500	507	WT	1993-94
Truckee River near Truckee, CA	10338000	553	WT	1977-82, 1993-94
Donner Creek at Highway 89 near Truckee, CA	10338700	29.1	WT	1993-1994
Martis Creek at Highway 267 near Truckee, CA	10339250	25.8	WT	1975-88
Little Truckee River below Diversion Dam near Sierraville, CA	10341950	36.1	WT	1994
Little Truckee River at Highway 89 near Truckee, CA	10343200	59.0	WT	1994
Bronco Creek at Floriston, CA	10345700	15.4	WT	1993-94
Truckee River at Floriston, CA	10345900	932	WT, SC	1964-71
Truckee River at Farad, CA	10346000	932	WT, SC	1972-81 1972-80
Dog Creek at Verdi, NV	10347310	--	WT	1993-94
Truckee River near Verdi, NV	10347336	--	WT	1980
Truckee River at Mogul, NV	10347460	1,035	WT	1994
Hunter Creek above Last Chance Ditch near Reno, NV	10347620	11.7	WT	1993-94
Truckee River at Reno, NV	10348000	1,067	WT	1989-94

WATER RESOURCES DATA FOR NEVADA, 1999

DISCONTINUED SURFACE-WATER-QUALITY CONTINUOUS STATIONS--Continued

Station name	Station number	Drainage area (mi ²)	Type of record	Period of record (water years)
				1995-98
Truckee River nr Sparks, NV	10348200	1,070	WT, SC	1988-96
North Truckee Drain at Kleppe Lane nr Sparks, NV	10348300	--	WT, SC	1993-98
Reno-Sparks Sewer Treatment Plant Outfall at Reno, NV	10349995	--	WT, SC	1994-98
Truckee River at Vista, NV	10350000	1,430	WT, SC	1988-94
Truckee River at Lockwood, NV	10350050	1,433	WT	1980-81
Truckee River above Tracy, NV	10350390	1,590	WT	1972-82
Truckee River below Tracy, NV	10350400	1,590	WT	1972-82
Truckee River right bank below Tracy, NV	10350405	1,590	WT	1972-82
Truckee River at Clark, NV	10350500	1,600	WT, SC	1972-77
				1978-98
Truckee River at Derby Dam, NV	10351000	1,676	WT	1980-81, 1988-95
"A" Drain at powerline crossing near Fernley, NV	10351356	--	WT, SC, pH, DO	1988-90
Truckee Canal at U.S. 50 above Lahontan Reservoir, NV	10351590		WT	1980
Truckee River below Derby Dam near Wadsworth, NV	10351600	1,676	WT	1988-95
Truckee River near Nixon, NV	10351700	1,827	WT, SC	1988-98
McDermitt Creek near McDermitt, NV	10352500	225	WT	1975-78
Quinn River near McDermitt, NV	10353500	1,100	WT, SC	1980-83
South Lead Lake-Southwest landing	393652118311201	--	WT, pH, SC, DO	1988-90
				1988-89

WATER RESOURCES DATA - NEVADA, 1999

INTRODUCTION

Water-resources data published herein for the 1999 water year comprise the following records:

- Water discharge for 167 gaging stations on streams, canals, and drains.
- Discharge data for 190 partial record stations and miscellaneous sites, and 45 springs.
- Stage and contents for 21 lakes and reservoirs.
- Water levels for 161 primary observation wells, and 444 secondary observation wells.
- Water-quality data for 107 stream, canal, spring and drain sites and 78 wells.
- Precipitation totals for 33 stations.
- Water withdrawals for 14 wells.

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

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

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

Beginning with the 1975 water year, surface-water, ground-water, and water-quality data have been published annually as official Geological Survey reports on a state basis. These reports carry an identification number consisting of the two-letter state abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water Data Report NV-99-1." For archiving and general distribution, the reports for water years 1971-74 are identified also as official water-data reports. The water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. For further ordering information, the Customer Inquiries telephone number is (703) 487-4650, between 8:30 am and 5:30 pm EST.

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

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

<http://nevada.usgs.gov/>

COOPERATION

The U.S. Geological Survey and organizations of the State of Nevada have had cooperative agreements for the systematic collection of streamflow records since 1909, and for water-quality records since 1951. Organizations that assisted in collecting data or funding through cooperative agreement with the Survey during 1999 are:

Bureau of Mines and Geology
California Department of Water Resources
Carson City Public Works Department
Carson-Truckee Water Conservancy District
Carson Water Sub-Conservancy District
Churchill County
City of Carson City
City of Henderson
City of Las Vegas
City of North Las Vegas
City of Reno
City of Sparks
Clark County Flood Control District
Clark County Sanitation District
Desert Research Institute
Douglas County
Duck Valley Reservation Shoshone-Paiute Tribes
Las Vegas Valley Water District

Nevada Department of Conservation and Natural Resources
Nevada Division of Water Resources
Nevada Department of Transportation
Nevada Department of Water Planning
Nevada Department of Water Resources
Nevada Department of Wildlife
Carson City Public Works Department
Pyramid Lake Paiute Tribe
Southern Nevada Water Authority
Summit Lake Paiute Tribe
Tahoe Regional Planning Agency
Truckee-Carson Irrigation District
Walker River Irrigation District
Walker River Paiute Tribe
Washoe County Department of Comprehensive Planning
Washoe County Public Works Department
Washoe Indian Tribe of Nevada and California

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

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

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 Sonya L. Vasquez

Surface Water

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

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

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

Most streams and rivers in Nevada drainages experienced near or above normal runoff for the fifth consecutive year. Runoff peaks on the Carson, Truckee and Walker were more typical this year, occurring in late May or early June. Significant peaks occurred on lower sites on Las Vegas Wash, July 8 due to heavy rains from localized thunderstorms in the Las Vegas area. Generally streams in southern Nevada were below normal runoff.

The Humboldt River begins in northeastern Nevada and terminates in northwestern Nevada. For water year 1999, the discharge at Palisade (station 10322500) was 113 percent of the 92-year mean. Monthly and annual mean discharges for water year 1999 and for the period of record (water years 1903-06, 1912-99) at the Palisade station are shown in figure 1. Rye Patch Reservoir (station 10334500), the last impoundment on the Humboldt River, at its highest level was 84 percent of full capacity in early July, from a low of 66 percent in November and December.

The Truckee River is a major western Nevada stream for which discharge is largely controlled by reservoirs and regulated lakes in the Sierra Nevada of California and Nevada. The Truckee River begins at Lake Tahoe (station 10337000) which is regulated above its natural rim (6,223 feet above sea level). Lake Tahoe during water year 1999 remained above its rim, with the water surface ranging between 6,227.49 January 12 to 6,228.93 feet above sea level July 13. The 1999 discharge at Reno (station 10348000) was 170 percent of the 72-year mean (water years 1907-21, 1926, 1931-34, 1947-99). The river terminates in Pyramid Lake (station 10336500), a closed-basin water body which is a saline remnant of Pleistocene Lake Lahontan. Water-surface elevations, in figure 2, illustrate a decline from 1975 through 1981, an increase during 1982-84, a steady decline from 1986 through 1994 with slight increases over the last five years. The high discharge in the Truckee River from 1982 through 1984 dramatically raised the lake level, by about 25 feet. The lake-surface elevation increased 5.3 feet during the 1999 water year, from 3,812.6 in October to 3,817.9 feet above sea level in July.

The Carson River is formed in Carson Valley by the confluence of the East Fork and West Fork Carson Rivers, with its headwaters in the Sierra Nevada of California. The 1999 discharge at Carson City (station 10311000) was 134 percent of the 60-year mean. Monthly and annual mean discharges for water year 1999 and for the period of record (water years 1940-99) at the Carson City station are shown in figure 1. Lahontan Reservoir (station 10312100), the major impoundment on the Carson River, at its highest level was 108 percent of full capacity near the end of June, and a low of 60 percent the end of September.

The Walker River is formed in Mason Valley by the confluence of the East and West Walker Rivers; both rivers originate in the Sierra Nevada of California. The East Walker River discharge is controlled by Bridgeport Reservoir and the West Walker River by Topaz Lake. The 1999 discharge of the Walker River at Wabuska (station 10301500) was 132 percent of the 74-year mean (water years 1904, 1921-35, 1940-41, 1943, 1945-99). The river terminates in Walker Lake (station 10288500) north of Hawthorne, which is also a saline remnant of ancient Lake Lahontan similar to Pyramid Lake. Water-surface elevations for the lake are shown in figure 2 and illustrate a steady decline from 1969 through 1981 like that of Pyramid Lake. In contrast, the high discharges in the Walker River from 1982 through 1984 raised the lake level by about 14 feet. Lake levels have steadily declined since 1986 until May 1995, and have since increased slightly. The lake-surface elevation increased only 1.3 feet during the 1999 water year, from 3,954.2 in October to 3,955.5 feet above sea level the end of June. The elevation at the end of September was the same it started in October, at 3,954.2 feet.

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 13,940 cubic feet per second. Mean annual discharge fluctuates on the basis of upstream supply and downstream hydroelectric-power and irrigation requirements. The 1999 discharge of the Colorado River below Hoover Dam was 113 percent of the 65-year mean (water years 1935-99).

The Virgin River is one of the major tributaries to Lake Mead on the Colorado River and has most of its drainage area in Utah and Arizona. The discharge at Littlefield, Arizona (station 09415000), was 79 percent of the 70-year mean (water years 1930-99).

The Muddy River is another tributary to Lake Mead. The discharge at Glendale (station 09419000) was 86 percent of the 48-year mean (water years 1951-1983, 1985-99).

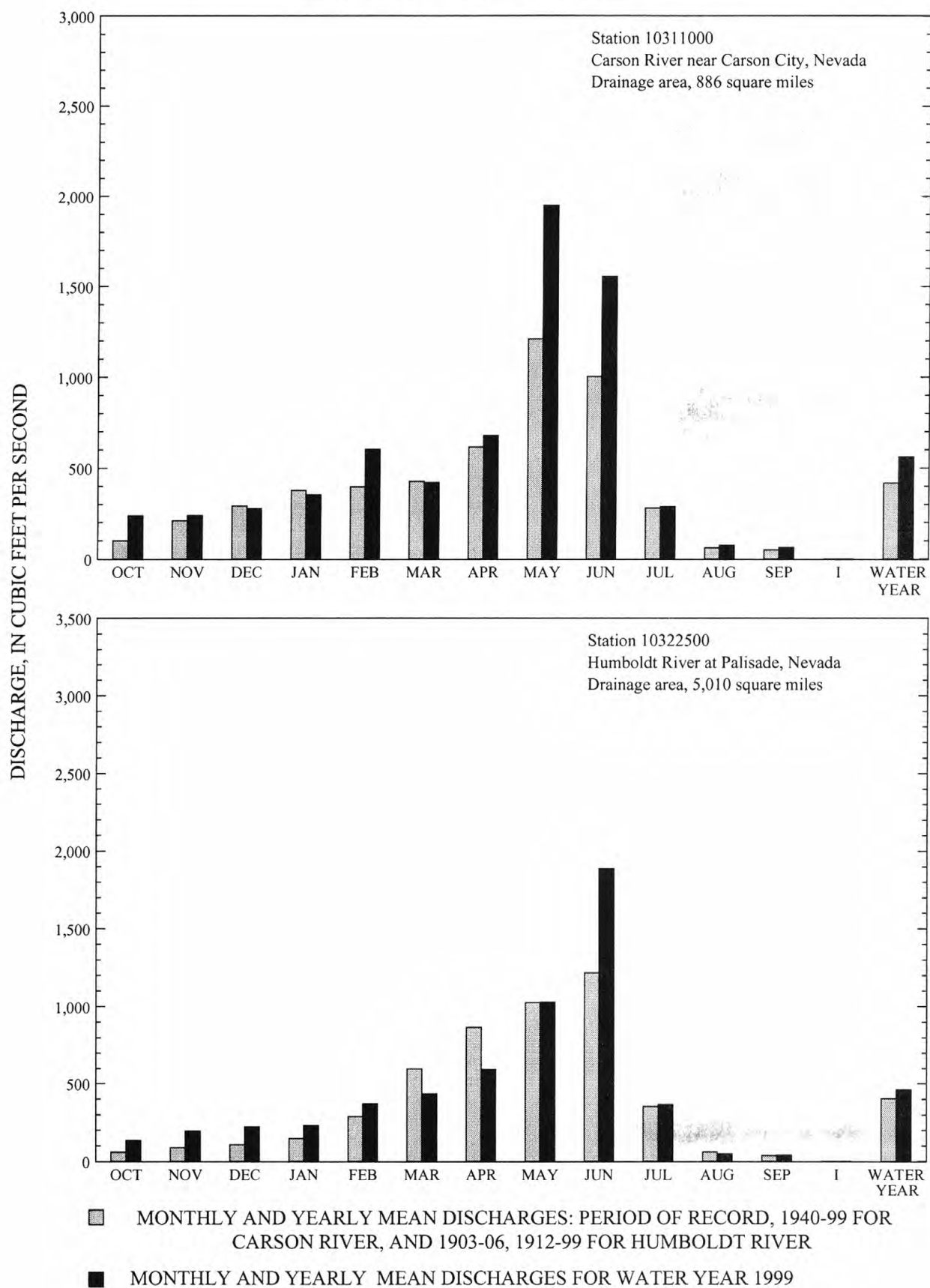


Figure 1. Comparison of discharge during water year 1999 with the long-term mean discharge at two representative gaging stations.

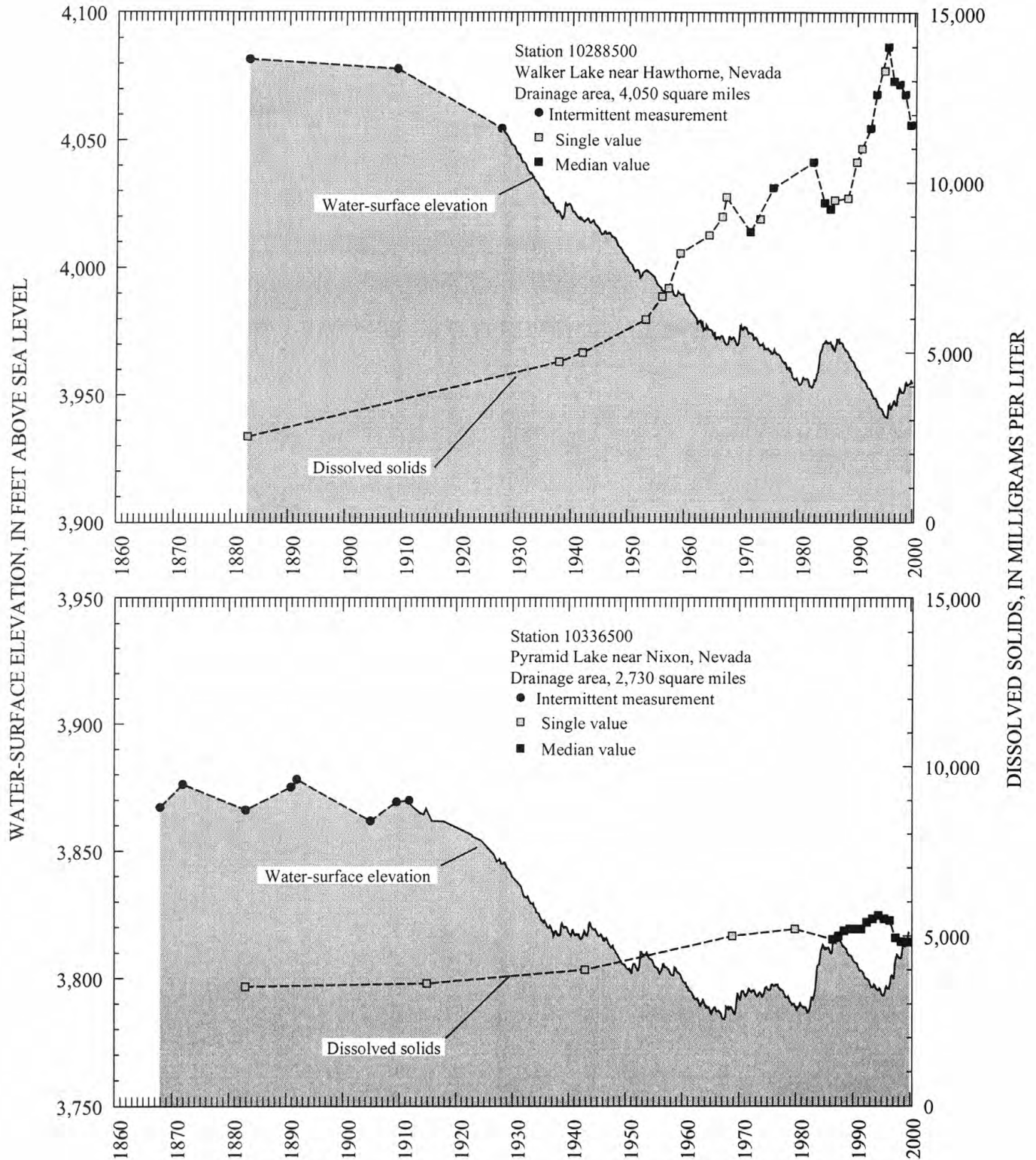


Figure 2. Water-surface elevation and dissolved-solids concentration at Walker and Pyramid Lakes (data from Desert Research Institute, Nevada Division of Wildlife, Pyramid Lake Fisheries, and U.S. Geological Survey).

Surface-Water Quality

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

Measured concentrations of dissolved solids for period of record range from 61 to 9,730 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. At Truckee River at Clark (station 10350500) mean dissolved-solids concentration for the period of record was 169 mg/L and for water year 1999 the mean concentration was 121 mg/L. Mean concentrations in water year 1999 were 72 percent of the long-term mean. During the 1999 water year at Truckee River at Vista (station 10350000), 12.8 mi upstream from Clark, the discharge for period of record and for the water year were 1,339 ft³/s and 1,837 ft³/s, respectively. During the 1999 water year, discharge was 160 percent of the long-term mean.

At two southern Nevada stations, Virgin River at Littlefield (station 09415000) and Colorado River below Hoover Dam (station 09421500), mean dissolved-solids concentrations for period of record were 1,990 mg/L and 695 mg/L, respectively. Mean dissolved-solids concentrations in the 1999 water year were 1,750 mg/L and 576 mg/L, respectively. Mean dissolved-solids concentrations in the 1999 water year were 88 and 83 percent, respectively, of the means for the period of record. For the Virgin River at Littlefield station, the mean discharge for the 1999 water year was 192 ft³/s and 244 ft³/s for the period of record. For the Colorado River below Hoover Dam station, the mean discharge for the 1999 water year was 15,750 ft³/s and 13,940 ft³/s for the period of record. Figure 3 shows the dissolved-solids concentrations measured at the Colorado River station since the 1970 water year. The downward trend in concentration during 1983-85 and again in 1997-99 probably was the result of dilution by consecutive years of greater than average inflow to Lake Mead. During 1988-96, in contrast, the concentration increased, presumably because the amount of runoff from the upper basin was less than the long-term mean.

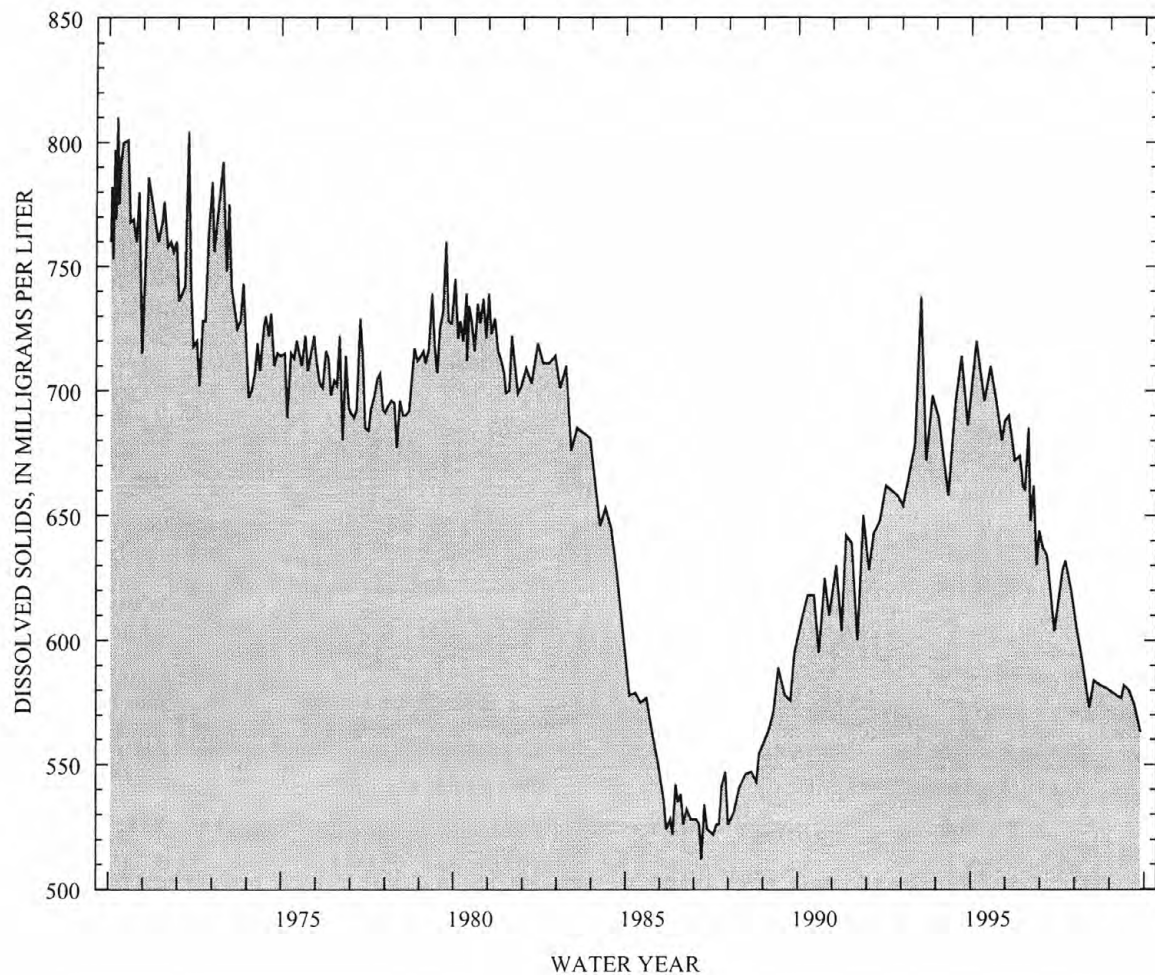


Figure 3. Dissolved-solids concentrations in the Colorado River below Hoover Dam (station 09421500) for water years 1970-99.

Ground Water

Development of ground-water supplies in Nevada continued during water year 1999 and 3,723 Well Driller's Reports (well logs) were submitted to the State Engineer's office. During 1999, 2,847 new wells were drilled and 876 existing wells were reworked or abandoned. The number of new wells drilled during water years 1971-99 are shown on figure 4. New wells are grouped into 4 categories of proposed water use; domestic, irrigation, public supply and industrial, and other (which includes all other proposed uses). More than half of the new wells were drilled for domestic use (figure 5). Most of the new wells represented in the other category were wells used for monitoring. The other category also includes wells drilled for artificial recharge, dewatering, livestock, and mining (figure 5).

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

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

The depths of the wells drilled in 1999 are shown in figure 6. Domestic wells were most commonly drilled to depths between 125 and 250 feet below land surface. Wells drilled for irrigation use were most commonly drilled to depths between 125 and 500 feet. Public supply and industrial wells were most commonly drilled to depths between 375 and 625 feet. Wells in the other category, primarily test holes, were most commonly drilled to depths between 0 and 125 feet.

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

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

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

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

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

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

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

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

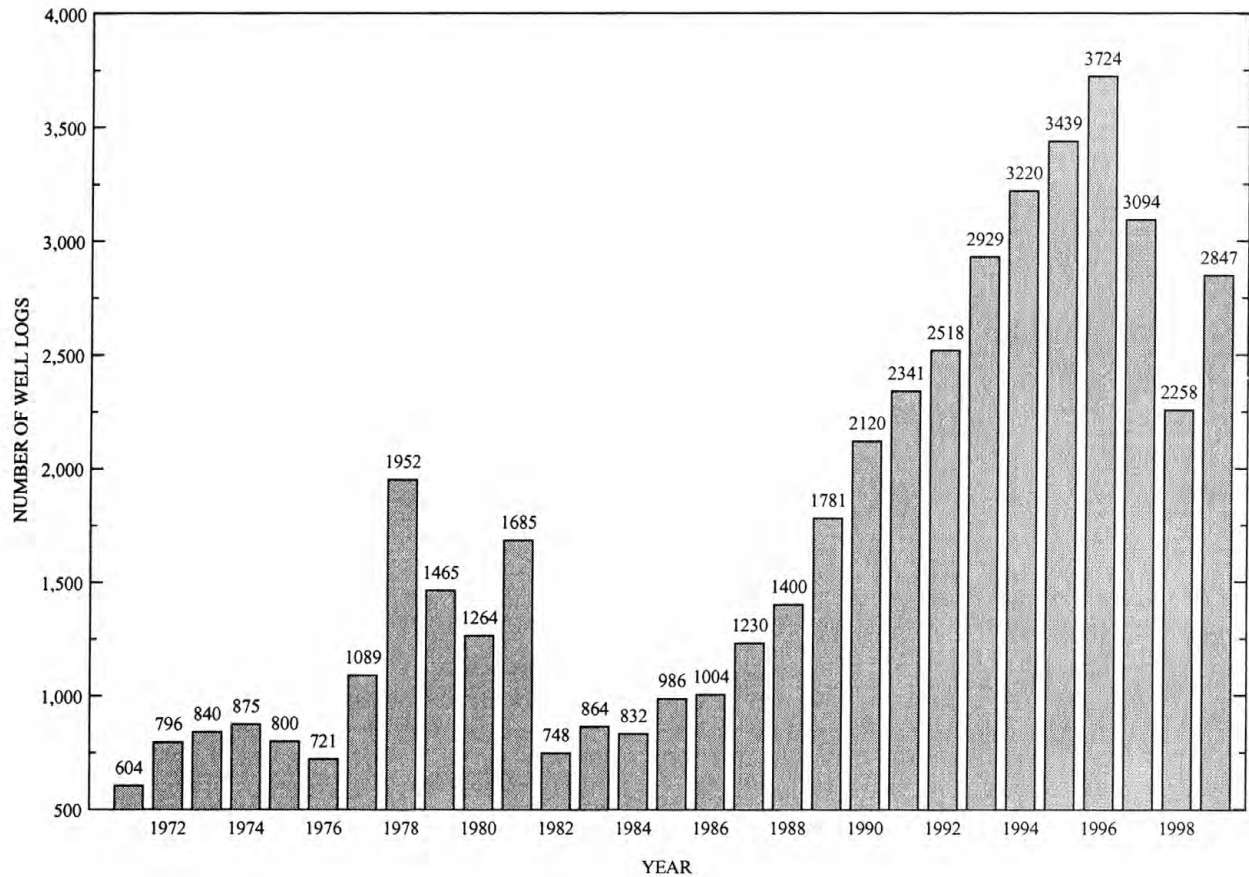


Figure 4. Number of new wells drilled based on number submitted to the Nevada State Engineer's Office during water years 1971-99.

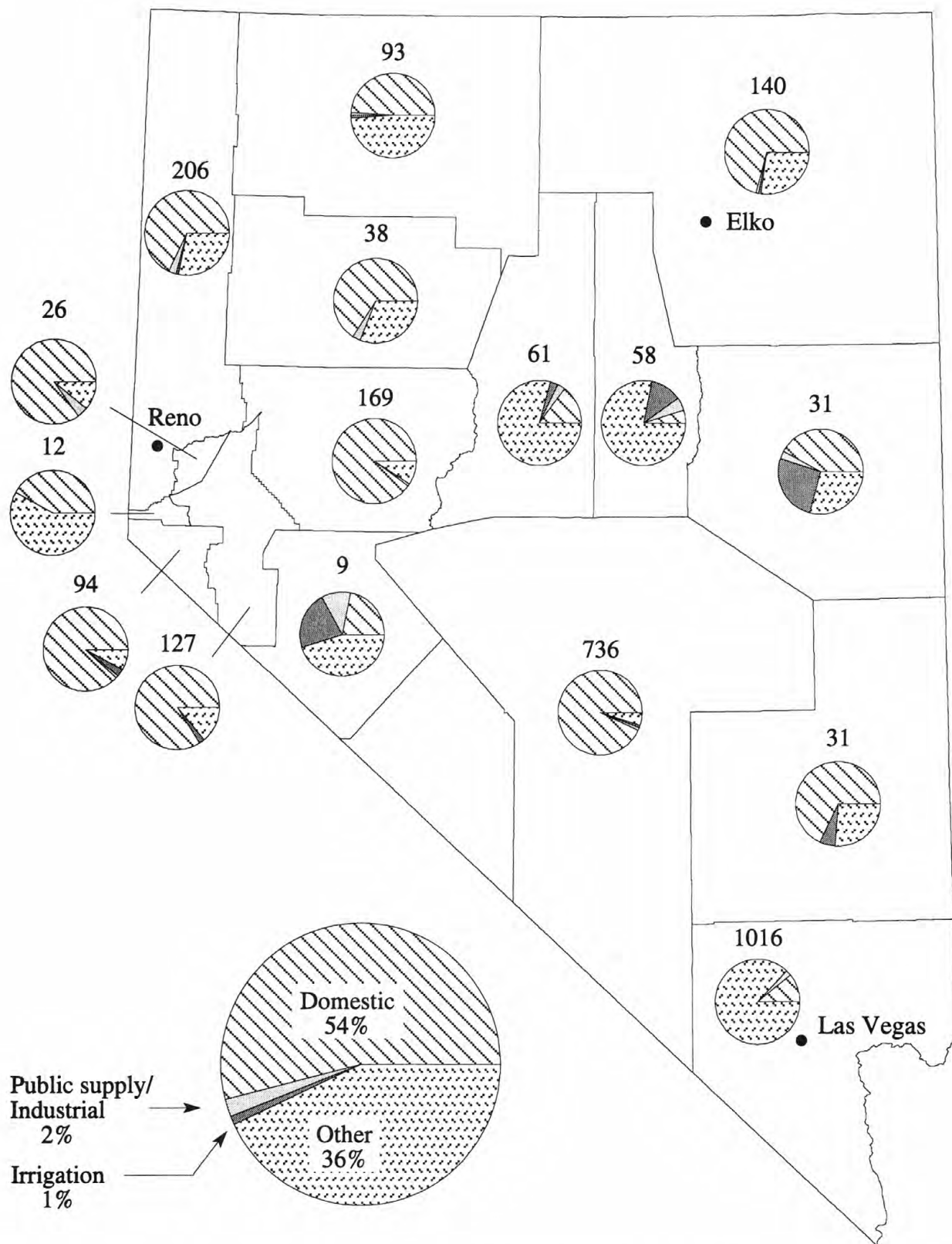


Figure 5. Distribution, by county, of the number of wells drilled during the water year 1999, on the basis of 2,847 logs submitted to the Nevada State Engineer's office. The category 'other' includes mostly exploration wells. Above each county symbol is the number of logs submitted during 1999.

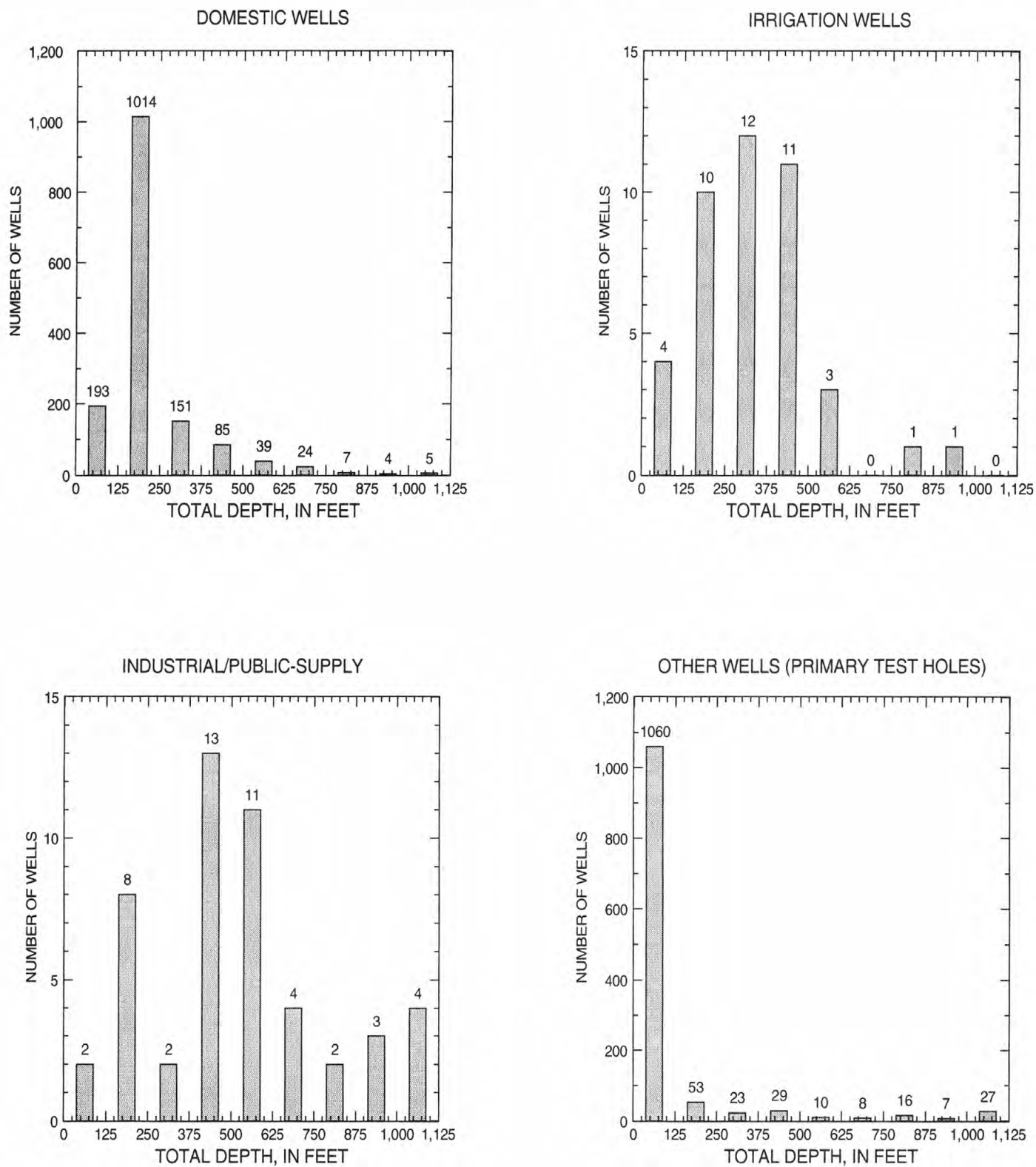


Figure 6. Depths of wells drilled during the 1999 water year for domestic, irrigation, public-supply and industrial, and other uses. The category 'other' does not include test holes drilled for geothermal exploration.

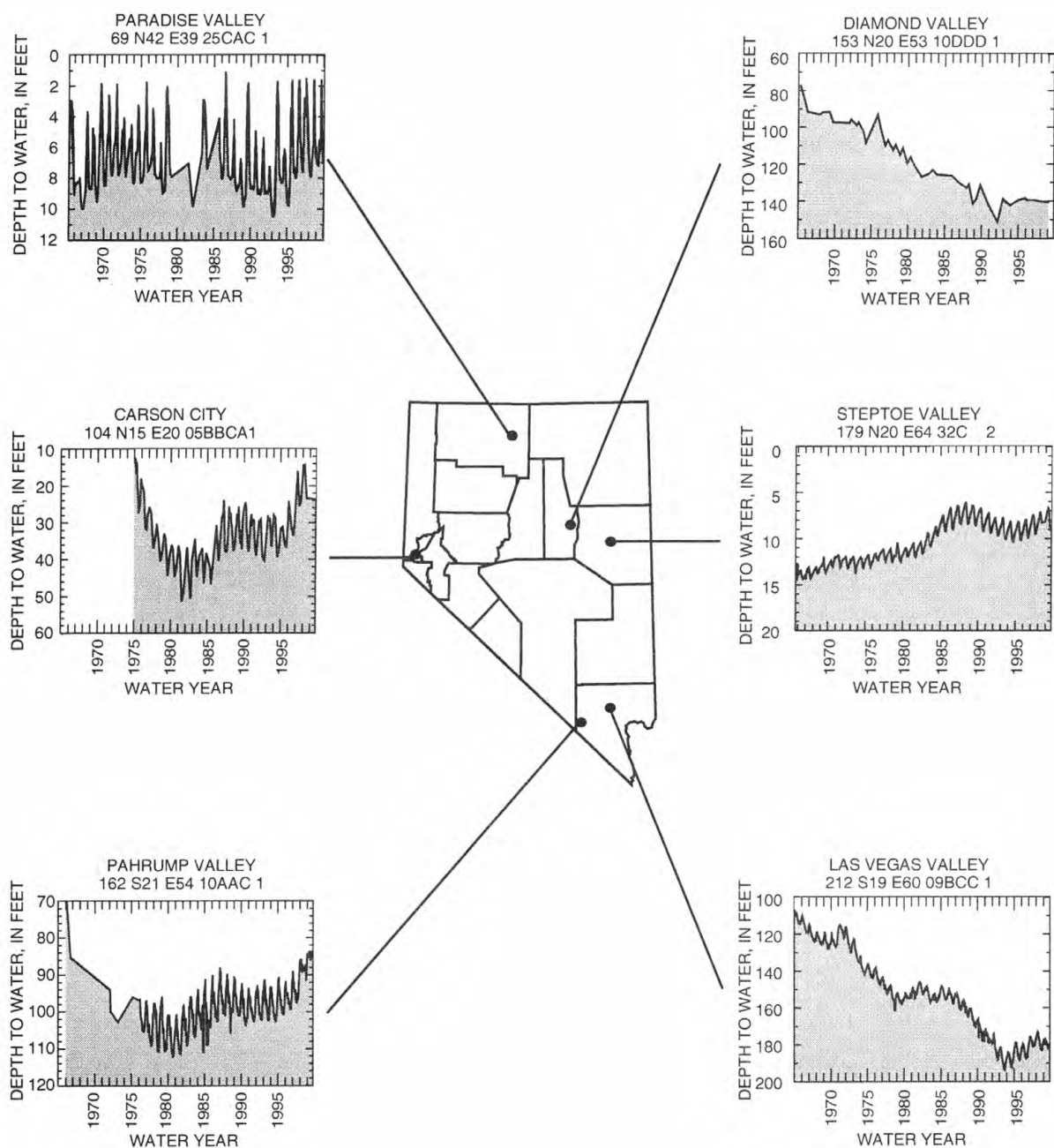


Figure 7. Long-term water-level depths below land surface in six selected observation wells.

Water Use

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

Water year 1999 (October 1, 1998-September 30, 1999) was a near normal year for precipitation for Nevada. Precipitation at six selected sites in Nevada during water year 1999, as reported by the National Weather Service, ranged from 89 percent to 118 percent of the median value. This is the fifth consecutive year that precipitation has been at or above normal for most of the State. The following table summarizes the data.

Weather station	Water year 1999 (inches)	Median, water years 1962-92 (inches)	Precipitation	
			Water year 1999, as:	
			Departure from median (inches)	Percentage of median
Elko	8.92	9.43	-0.51	95
Ely	10.15	9.83	+0.32	103
Las Vegas	4.80	4.07	+0.73	118
Reno	5.22	6.84	-0.62	89
Tonopah	6.62	5.62	+1.00	118
Winnemucca	8.40	8.15	+0.25	103

In a normal year, surface water is the source for about 60 percent of Nevada's water withdrawals. Some surface water right holders also have supplemental ground water rights, which can be used when surface water is not available for their use.

Irrigation is the largest use of water in Nevada. In 1995, 1,843,000 acre-feet was withdrawn for irrigation, this accounted for about 71 percent of all offstream withdrawals. In 1999, streamflows were above or near normal, in the major irrigation areas that rely on surface water. In 1998, 694,930 acres were irrigated (National Agricultural Statistics Service, 1999a), with 507,935 acres being irrigated by gravity flow systems (National Agricultural Statistics Service, 1999b). The major irrigated crops in 1998 were alfalfa (277,208 acres harvested with an application rate of 3.4 acre-feet per acre), native hay (199,770 acres harvested with an application rate of 2.2 acre-ft per acre), and pasture land (160,110 acres with an application rate of 2.3 acre-feet per acre) (National Agricultural Statistics Service, 1999c).

Public supply is the second largest use of water in Nevada. In 1995, public supply accounted for about 20 percent of all offstream withdrawals. In July 1999, Nevada's population was estimated to be 1,961,670 people (Nevada State Demographer, 1999).

Since 1986, Nevada has been the nation's fastest growing state (U.S. Bureau of the Census, 1999a). From April 1990 to April 1999, Nevada's population has increased by more than 50 percent (U.S. Bureau of the Census, 1999a). In second place was Arizona with a 30 percent increase in population during this same period, and the United States population increased by 10 percent (U.S. Bureau of the Census, 1999b). The fastest growing U.S. city, in 1998, with population between 10,000 and 50,000 people was Mesquite, Nevada, which grew from 1,871 people in 1990 to 10,125 people in 1998 (U.S. Bureau of the Census, 1999c). The fastest growing metropolitan area in 1998, by rate of growth, was the Las Vegas area (Clark County, Nevada and Mohave County, Arizona), which has grown by 55 percent between 1990 and 1998 to 1,321,546 people (U.S. Bureau of the Census, 1999d).

Public supply is a rapidly growing use of water in the State. The rate of increase in public-supply withdrawals nearly parallels the rapid growth in the State's population. In 1998, over 85 percent of Nevadans lived in urban areas (2,500 people or more). The three largest population centers in the State are the Las Vegas, Reno, and Carson City areas; in 1999, about 80 percent of the State's population lived in these three areas (Nevada State Demographer, 1999). The amount of water withdrawn by the principal public-supply utilities servicing each of these areas for the period from October 1989 (water year 1990) to September 1999 (water year 1999) is shown in figure 8. In 1995, these three areas accounted for about 80 percent of all the water withdrawn by public-supply utilities in the State. The small peak for the January billing period, seen on the plots for Reno and Carson City for some years, indicates, in part, increased water use by tourists during the Christmas and New Year's holidays. The lower Spring and Summer water use seen in the Reno and Carson City areas during the early 1990's was due in large part to regional drought conditions and the heightened awareness and enforcement of water conservation.

The primary source of public-supply water for Las Vegas and Reno is surface water; for Carson City, it is ground water.

In the Las Vegas area (which encompasses the cities of Las Vegas, North Las Vegas, and Henderson and Nellis Air Force Base), the Colorado River is the principal source of public-supply water. The Las Vegas area 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 1998, surface-water was the source for nearly 88 percent of the area's public-supply withdrawals. About 65 percent of the water used in Las Vegas is for residential use, and about 7 percent is used by hotels and motels (Southern Nevada Water Authority, 1999a). Of the total residential use, outdoor watering accounts for 60 percent, toilets 15 percent and showers 13 percent (Southern Nevada Water Authority, 1999b). Among the water-conservation measures taken in the Las Vegas area: No outside watering is permitted from Noon to 7 p.m., and some communities prohibit the enacting of covenants, conditions, and restrictions on a property which require the use of turf or prevent the use of xeriscape landscaping (Southern Nevada Water Authority, 1999c). Clark County now requires all new golf courses and nearby landscape areas to utilize reclaimed wastewater (Southern Nevada Water Authority, 1999d). Also some communities in the area prohibit man-made lakes, have placed restrictions on the size of outside decorative water displays at resort hotels, and have placed restrictions on the percentage of turf that can be used at commercial, industrial, and multifamily developments. Since 1991, Las Vegas Valley Water District has estimated that conservation measures have resulted in a 11 percent savings in water use (Southern Nevada Water Authority, 1999e).

Two water purveyors in the Las Vegas area are doing artificial recharge. From 1987 to January 1, 1999, more than 163,000 acre-feet of Colorado River water has been injected into the aquifer under Las Vegas Valley (Southern Nevada Water Authority, 1999f). Artificial recharge is being done for several reasons, two of these are: to help meet summer peak demands and to stabilize declining ground-water levels. About 4,000 acre-feet of the injected water has been recovered to meet water demands (Southern Nevada Water Authority, 1999f). Since 1990, the water levels in the aquifer in the main area of the artificial recharge have risen 30 to 40 feet (Southern Nevada Water Authority, 1999f).

In the Reno area (which encompasses the cities of Reno and Sparks), the Truckee River supplied about 85 percent of the community's public-supply water in 1999. During years of high or surplus flows in Truckee River, the principal water purveyor follows a conjunctive use agreement to reduce its groundwater withdrawals, thus allowing groundwater storage to increase. Conservation measures enforced in the Reno area limit outside watering to twice a week; washing down hard surfaces is prohibited; and decorative water displays are turned off.

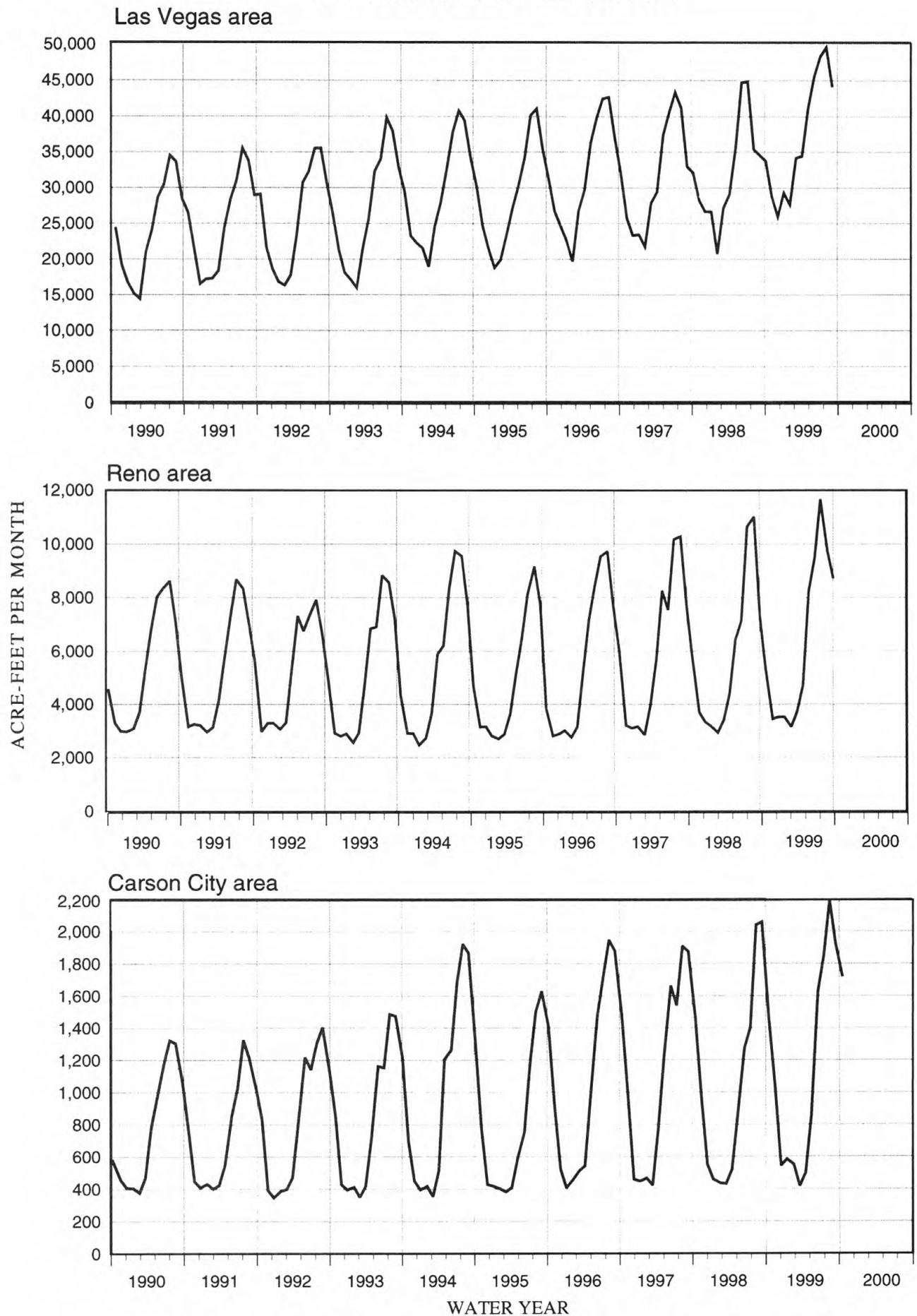


Figure 8. Monthly water withdrawals for public supply in the Las Vegas, Reno, and Carson City areas, water years 1990-99. Source of data: Nevada Division of Water Resources.

In 1999, ground water was the source for about 60 percent of Carson City's public-supply water, and about 12 percent of the City's water was from the Carson River. The amount of water that Carson City gets from surface water sources is increasing. City ordinance limits outside watering to every other day from June through September, with no watering between 10 a.m. and 7 p.m. this is done to reduce peak demand and not to limit water use. Wasting water and washing driveways is also prohibited. Carson City is seeking surface-water rights from the Carson River to reduce its ground-water withdrawals.

The Nevada Test Site (NTS) is located 60 miles northwest of Las Vegas. From 1950 until the ban on nuclear weapons testing in 1992, the NTS was the primary continental site for the testing of nuclear weapons. Ground water is the source of all water used at the NTS. With the ceasing of weapons testing and the related decline in personnel water withdrawals have declined nearly 80 percent since 1989 (figure 9). Monthly pumpage for water year 1999 from the 14 production wells on the NTS is shown in figure 10.

In 1995, it was estimated that mining used 89,220 acre-feet of water, about 3 percent of the total water withdrawn in 1995, this value does not include water that was removed as part of dewatering operations. In 1999, the 6 largest mining operations in Nevada accounted for about 230,200 acre-feet of water being withdrawn for pit dewatering, mining, and milling (Tim Wilson, Nevada division of Water Resources, oral commun., 2000). Use for this removed water varies, some uses include injecting the water into an aquifer away from the mining operation, using it for agricultural irrigation, and adding it to streamflows. All of the major dewatering operations are at gold mines. In 1998, Nevada accounted for 74 percent of U.S. gold production and 11 percent of world gold production (Nevada Bureau of Mines and Geology, 1999, p.4). Nevada ranks as the third largest gold producer in the world behind South Africa and Australia (Nevada Mining Association, 1999). In 1998, Nevada was the nation's leading producer of barite, lithium carbonate and mined magnesite, and was second in the production of diatomite (Nevada Division of Minerals, 1999a).

In 1995, it was estimated that geothermal power generation used 33,680 acre-feet of water, about 1 percent of the total water withdrawn in 1995. These withdrawals are saline groundwater. In 1998, there were 14 geothermal power plants at 10 locations, which produced 1,629,948 megawatt-hours (Nevada Division of Minerals, 1999b). Nevada is second only to California in total installed geothermal generating capacity (Nevada Bureau of Mines and Geology, 1999, p. 42). In addition to electrical generation, geothermal resources are also used for heating homes and businesses. The cities of Elko and Caliente have small heating districts and a private heating district is located in southwest Reno (Nevada Division of Minerals, 1999b).

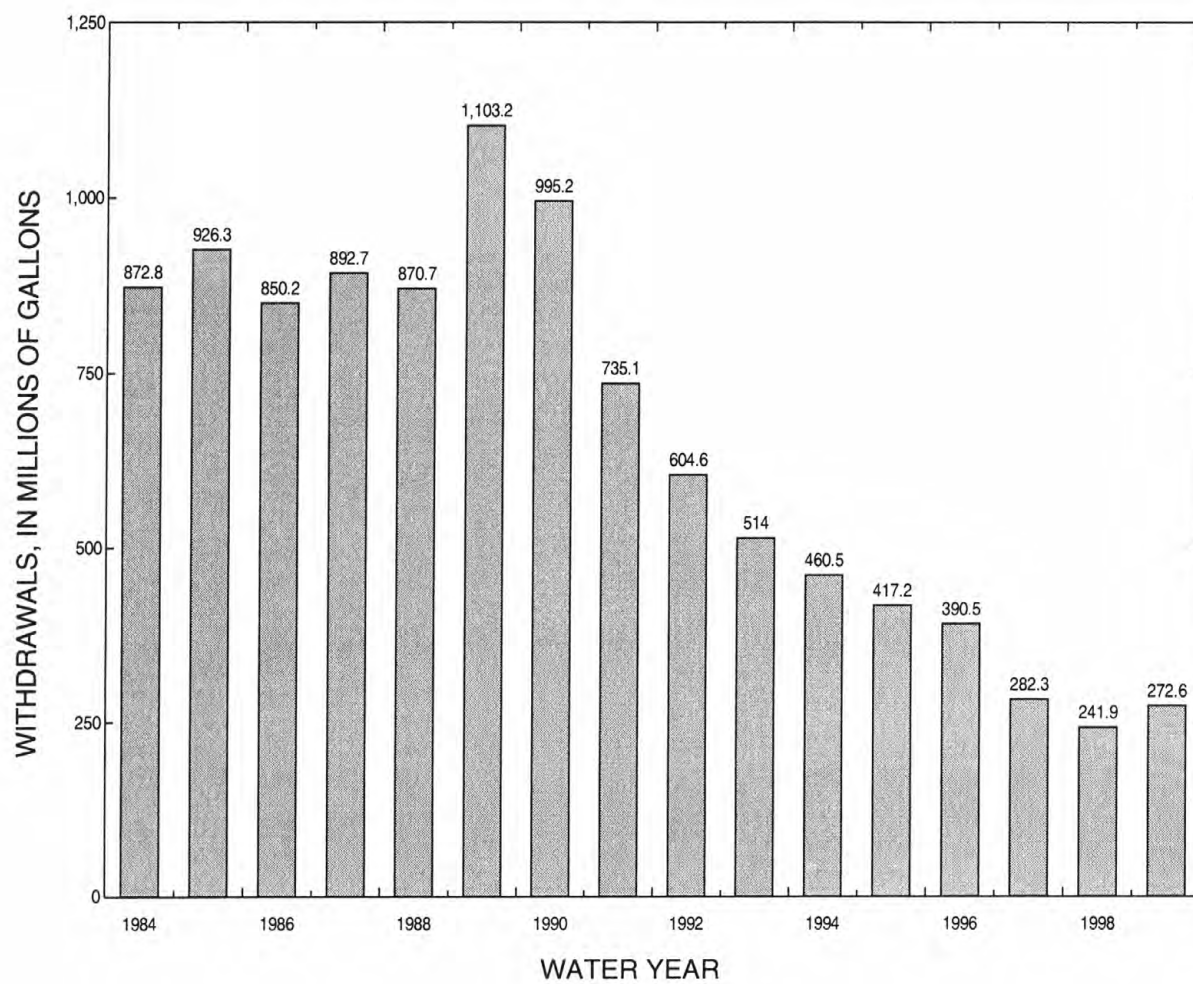


Figure 9. Total ground-water withdrawals from wells at the Nevada Test Site during water years 1984-99.

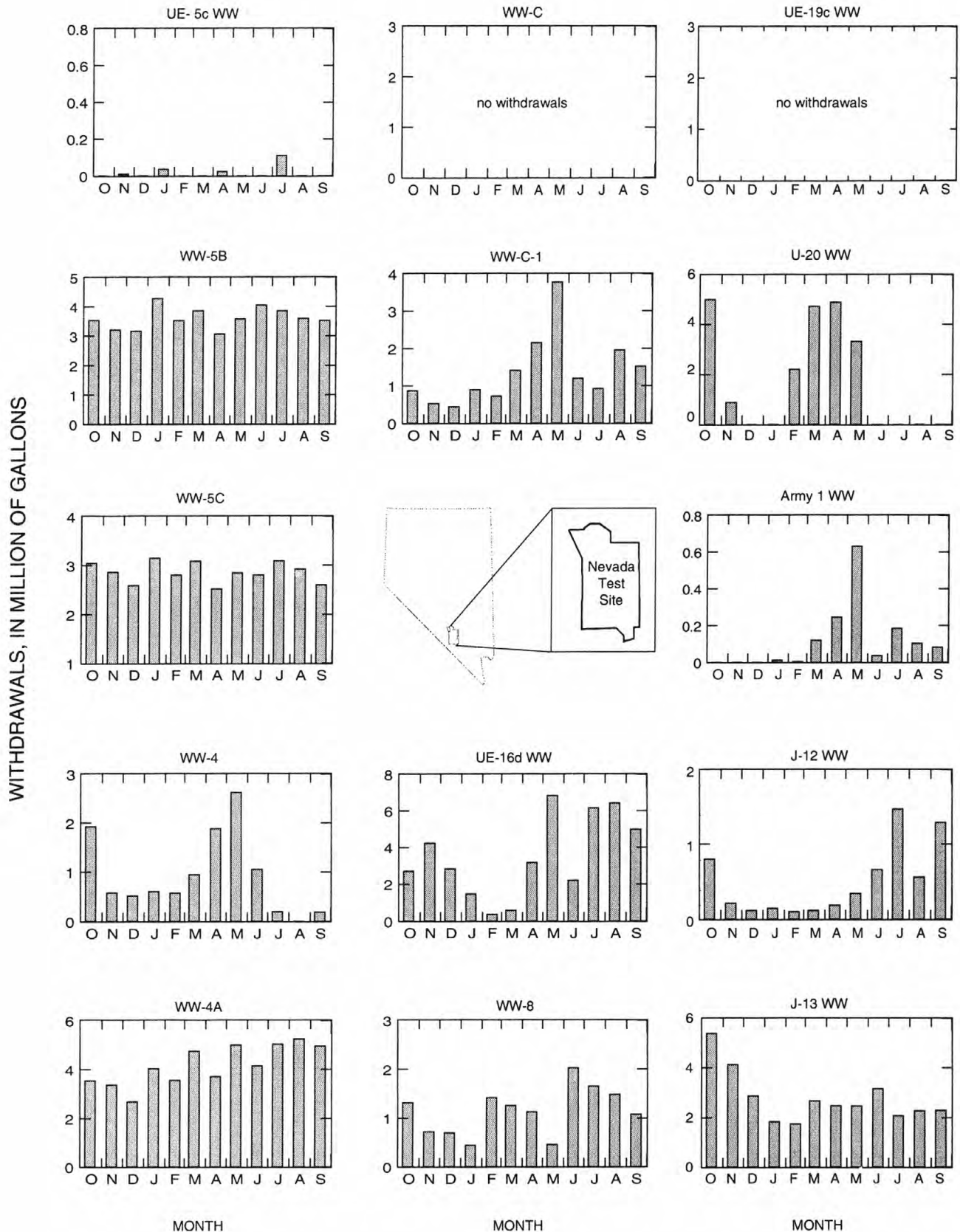


Figure 10. Total ground-water withdrawals from production wells at the Nevada Test Site during water years 1999.

SPECIAL NETWORKS AND PROJECTS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the 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 human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at:

<http://nadp.sws.uiuc.edu>

Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

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

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

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

Additional information about the NAWQA Program is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

The Nevada Basin and Range (NVBR) NAWQA, which includes the Las Vegas Valley area and the Carson and Truckee River basins, began in 1991. Data on physical, chemical, and biological properties of surface- and ground-water resources in the NVBR study unit will be combined with data from 58 other study units to represent water-quality conditions in resources that provide more than 60 percent of the Nation's public supplies.

Amargosa Desert Study in Southern Nevada is a part of the USGS Toxics Program and consists of 1 ground-water water-quality site where data is collected to establish background information to determine if changes in water quality occur.

Carlin Trend Network in north-central Nevada consists of 7 stream-gaging stations and 4 sites for bed-sediment quality. These sites are used for monitoring regional hydrologic conditions near large mines along the trend.

Carson River Mercury Study consists of 2 streamflow sites where depth/width integrated water samples for total and dissolved mercury, total and dissolved methylmercury, and suspended sediment are collected for determination of loads into and out of Lake Lahontan.

Devils Hole Reconnaissance Project consists of samples collected at the request of, and in cooperation with, the National Park Service and U.S. Fish and Wildlife Service as part of an investigation of the variation in the population of Devils Hole pupfish, *Cyprinodon diabolis*. Water samples were collected about 5 ft below the water surface in the deep pool, and mid-depth (about 0.5-ft below the water surface) over the submerged rock shelf where the pupfish typically feed and breed. Composited samples of bottom sediment were collected about 10 feet below the water surface beneath the submerged rock shelf.

Douglas County Network consists of 6 sites for miscellaneous streamflow measurements, 17 wells for water-level measurements, and 34 ground water water-quality sites where data are routinely collected, principally in Carson Valley, western Nevada. The data will be used to establish background information to determine if changes in water quantity or quality occurs.

Eagle Valley Ground Water Study in western Nevada consisted of water-level measurements at wells in eight watersheds tributary to Eagle Valley. These sites were part of a project to determine the quantity of ground water that flows into Eagle Valley from the adjacent mountains.

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

Humboldt River Basin Study consists of 5 stream-gaging stations, 4 additional streamflow sites, and 2 lake sites where water and bottom-sediment samples are collected for inorganic chemical analyses.

Lake Mead and Lake Mohave Study consists of water samples collected in cooperation with the National Park Service from ten locations in Lake Mead and Lake Mohave for analysis of volatile organic compounds. These samples were collected to help determine the impact of two-cycle engines on the water quality in the lakes. Bed-sediment samples also were collected near the Saddle Island water-supply intake and near the Callville Bay water-supply intake. These bed-sediment samples were analyzed to determine the occurrence of semi volatile organic compounds, organochlorine pesticides, dioxins, and furans and to substantiate earlier findings. Both of these activities are part of an effort to understand more about the chemical and biological character of these lakes. Other related activities include sampling the lake water for organic compounds, and sampling fish tissue to determine the healthfulness of the fish population.

Lake Tahoe Interagency Monitoring Program is a network of 34 surface-water sites where streamflow and water-quality data are routinely collected around Lake Tahoe and 35 ground-water sites monitored for nutrients. The surface-water data will be used to provide a long-term data base of streamflow and of sediment and nutrient loadings from major tributaries to Lake Tahoe.

Lake Tahoe Basin Organics Study in Lake Tahoe and other Lower Echo Lake (Nevada and California) consists of 10 lake sites where water samples were taken and analyzed for MTBE and other gasoline components. The data will be used to determine the effectiveness of the prohibition of carbureted 2-stroke engines in the Lake Tahoe Basin.

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

Newlands Shallow Aquifer Monitoring consists of 53 wells for water-level measurements and 5 ground water water-quality sites in Churchill County, Nevada where data are collected to monitor changes in water levels and water quality caused by changes in land use.

Virgin River Basin Project in Southern Nevada consists of 2 streamflow sites to characterize the hydraulics and water quality of the basin. The data will be used to provide a long-term data base of chemical loading to Lake Mead.

Washoe County Nitrate Study in western Nevada consists of 8 wells in Sparks, and the Lemmon and Golden Valley areas of Washoe County. The data will be used to identify sources of nitrate in ground water.

Yucca Mountain Water-Quality Monitoring Project consists of six wells and two springs that are sampled up to five times a year for major ion and trace element analyses. The work is done in cooperation with the U.S. Department of Energy.

Yucca Mountain Ground-Water Monitoring Project includes periodic measurements made throughout the Yucca Mountain Area to support environmental and regulatory aspects of the Yucca Mountain Project. Discharge and water-level measurements are made at 5 selected springs and 31 wells. Data presented do not include data collected as part of the Site-Characterization Program nor continual records developed from pressure-sensor data. The data included have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1999 water year that began October 1, 1998, and ended September 30, 1999. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 11-37. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

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

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports has been in a downstream direction along the main stream. All stations on a tributary entering from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an 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 number for each station, such as 10351700, which appears just to the left of the station name, includes the 2-digit part number (10) plus the 6-8-digit downstream-order number (351700). In this report, the records are listed in downstream order by parts. The part number refers to an area the boundaries of which coincide with certain natural drainage lines. Records in this report are for sites in Part 9 (Colorado River basin), Part 10 (The Great Basin), and Part 13 (Snake River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number.

Latitude-Longitude System

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

Local Site Numbers

Local site numbers used in Nevada locate ground-water data sites (wells or springs) by hydrographic areas and by the official rectangular subdivision of the public lands with reference to the Mt. Diablo base line and meridian. Nevada has been divided into 14 hydrographic regions or major basins and 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 (1968). The remainder of the number specifies the township north or south of the Mt. Diablo base line, the range east of the Mt. Diablo meridian, the section, and the subdivision of the section. Sections are divided into quadrants labeled counterclockwise from upper right as A, B, C, and D. Each quadrant is then similarly subdivided up to as many as three times, depending on the accuracy of available maps; thus each section of about 640 acres may be subdivided into tracts approximately 330 ft on a side containing about 2.5 acres. Lettered quadrants are read from left to right, with the largest subdivision on the left. Sites within the smallest subdivision used are numbered sequentially with 1 digit. As an example, a well in 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: 13/26-16ab1. The first number was the township north of the base line (if the township was south of the base line, the first number was followed by an "S"). The second number was the range east of the meridian, the third number was the section, and the following letter or letters and number indicated the quarter sections and sequence as defined above.

Records of Stage and Water Discharge

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

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

Data Collection and Computation

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

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

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

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

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

affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

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

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

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page

of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data are always accompanied by revision of the corresponding data in computer storage.

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

Data table of daily mean values

Headings for the AVERAGE DISCHARGE 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 the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

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

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

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

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

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

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

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

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

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

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

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 has been exceeded 10 percent of the time for the designated period.

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

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

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in a table of annual maximum stage and discharge at crest-stage stations. The table of crest-stage stations is followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

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

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 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 three 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 17, 18, 24, 29 and 33.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the 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 tables of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

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

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

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

Specific Conductance

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

Water Temperature

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

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

Laboratory Measurements

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

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

$$\text{MBASCOR} = M - 0.0088N - 0.00019C$$

where:

MBASCOR = corrected MBAS concentration, in mg/L;

M = reported MBAS concentration, in mg/L;

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

C = dissolved chloride concentration, in mg/L.

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

Long-Term Method Detection Levels and Laboratory Reporting Levels

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

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

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

Sediment

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

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

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

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

Data Presentation

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

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

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

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

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

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

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

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

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

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

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

Remark Codes

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

<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 (ug/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). Data above the ug/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 began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols will take place during the 1995 water year.

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

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

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

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

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

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed. 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 TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" section in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published 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.

Water Quality-Control Data

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

Blank Samples

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

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

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

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

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

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

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

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

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

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

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

Reference Samples

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

Replicate Samples

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

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

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

Concurrent sample - taken at same time as environmental sample.

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

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

Spike Samples

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

ACCESS TO USGS WATER DATA

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

<http://waterdata.usgs.gov>

The local address for specific Nevada gaging stations for near real-time stage and discharge data for sites equipped with telemetry, historic daily-mean and peak-flow statistics for current and discontinued gaging stations is:

<http://nevada.usgs.gov>

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

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

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

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, 325,851 gallons, or 1,233 cubic meters.

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

Annual runoff is the total quantity of water 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, acre-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, 325,851 gallons, or 1,233 cubic meters.

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

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

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

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. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 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 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 that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

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

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

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

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 is 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. 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.

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

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

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

$$\text{sphere } \frac{4}{3} \pi r^3 \quad \text{cone } \frac{1}{3} \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

From cell volume, total algal biomass expressed as biovolume ($\mu\text{m}^3/\text{mL}$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

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

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

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

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

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

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

Continuous-record station is a site that meets either of the following conditions:

Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.

Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

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

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

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

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft³/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

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

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a 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 discharge is the discharge at a particular instant of time.

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

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

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

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 that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L CaCO_3) can be converted to carbonate concentration by multiplying by 0.60.

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

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

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

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. 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 Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

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

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the 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 site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

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

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

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

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

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

$$I = I_0 e^{-\lambda L}$$

where I_0 is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}$$

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

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

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

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

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

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

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

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

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

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

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

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

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

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

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of 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. See NOAA web site: <http://www.ngs.noaa.gov/fq.shtml#What/VD29VD88>

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

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

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

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

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.

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

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

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

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

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

Classification	Size (mm)	Method of analysis
Clay	0.00024-0.004	Sedimentation
Silt	.004-0.062	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 or percent of total is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

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

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

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

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

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. Concentrations are expressed as a 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.

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

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

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

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.

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

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

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

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

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 the United States and Canada, formerly called Sea Level Datum of 1929. See: http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also 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 or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that 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). The entire sample is used for the analysis.

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

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

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, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow ($7Q_{10}$, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The $7Q_{10}$ has a 10-percent chance of occurring in any given year.

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 from 55 to 75 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.

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

Stage: See "Gage height."

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

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

Substrate is the physical surface upon which an organism lives.

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.

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

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 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 suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by 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 suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by 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.

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

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 *Hexagenia*
Species *Hexagenia limbata*

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 is 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, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative 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 suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

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

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

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

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

Total recoverable is the amount of a given constituent that is in solution after a representative 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.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

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

Water year in U.S. 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, 1999, is called the "1999 water year."

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

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

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

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

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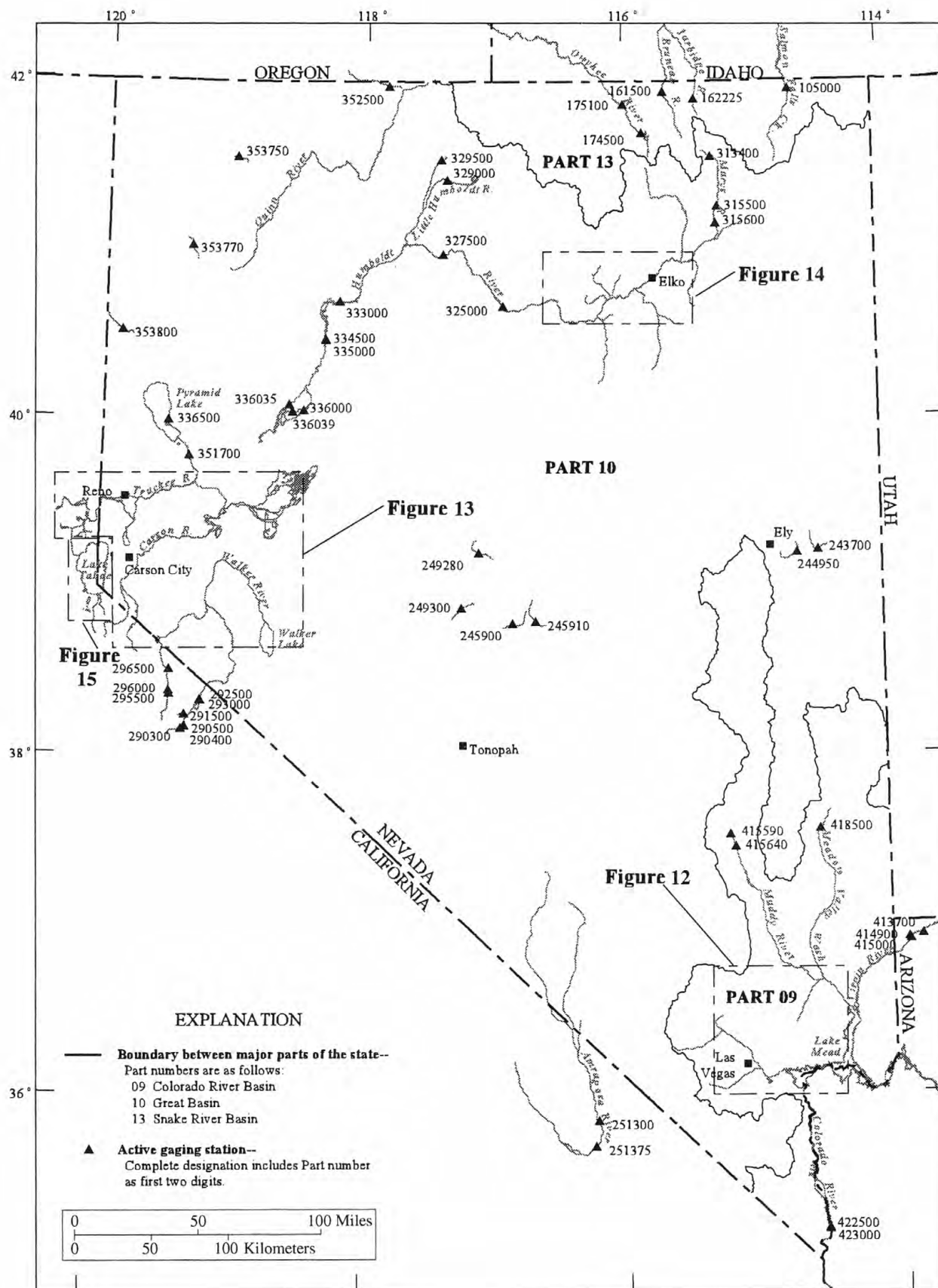
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Floodflow to Las Vegas Wash, Nev.

Photograph by David A. Beck



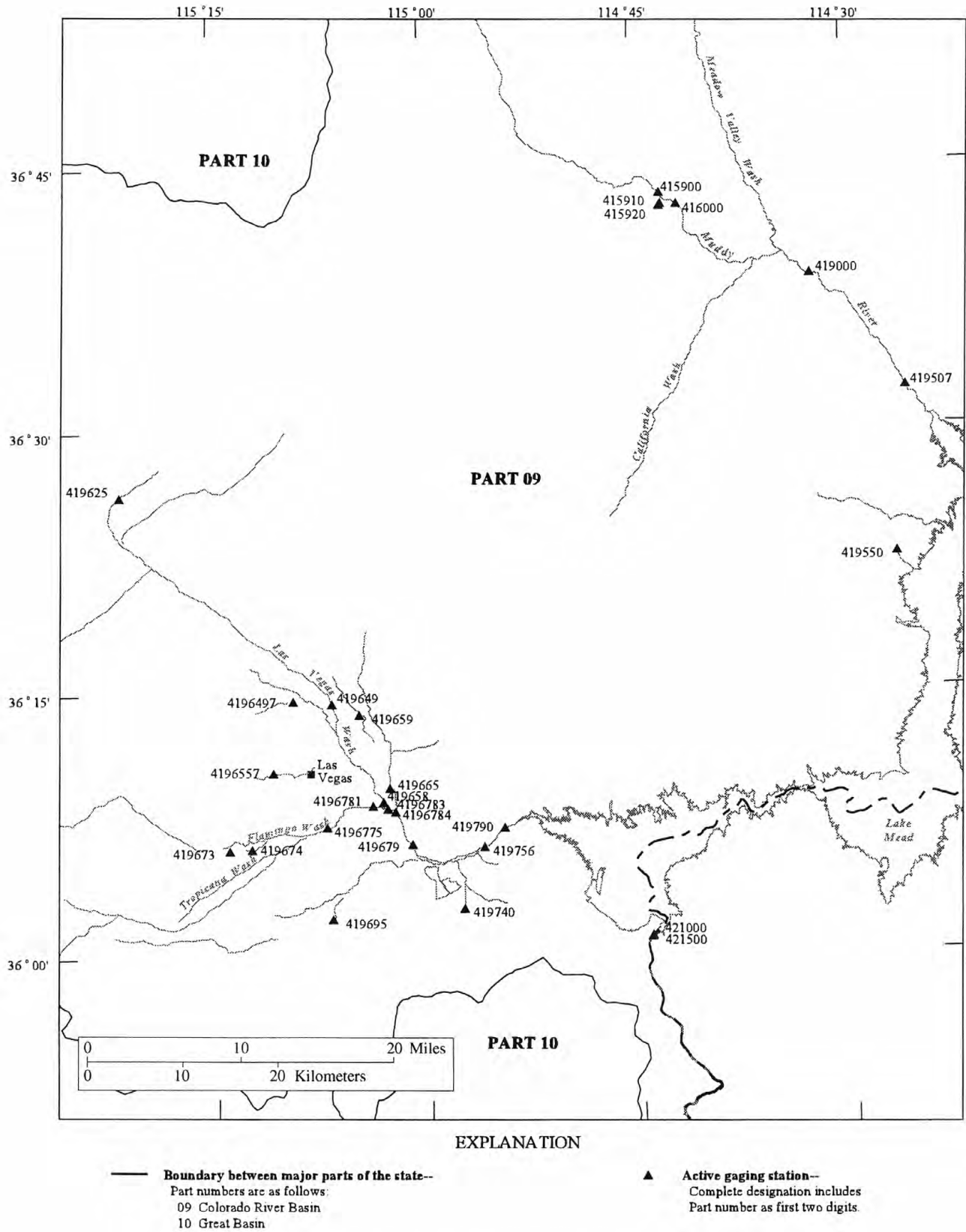


Figure 12. Gaging stations, southeastern Nevada.

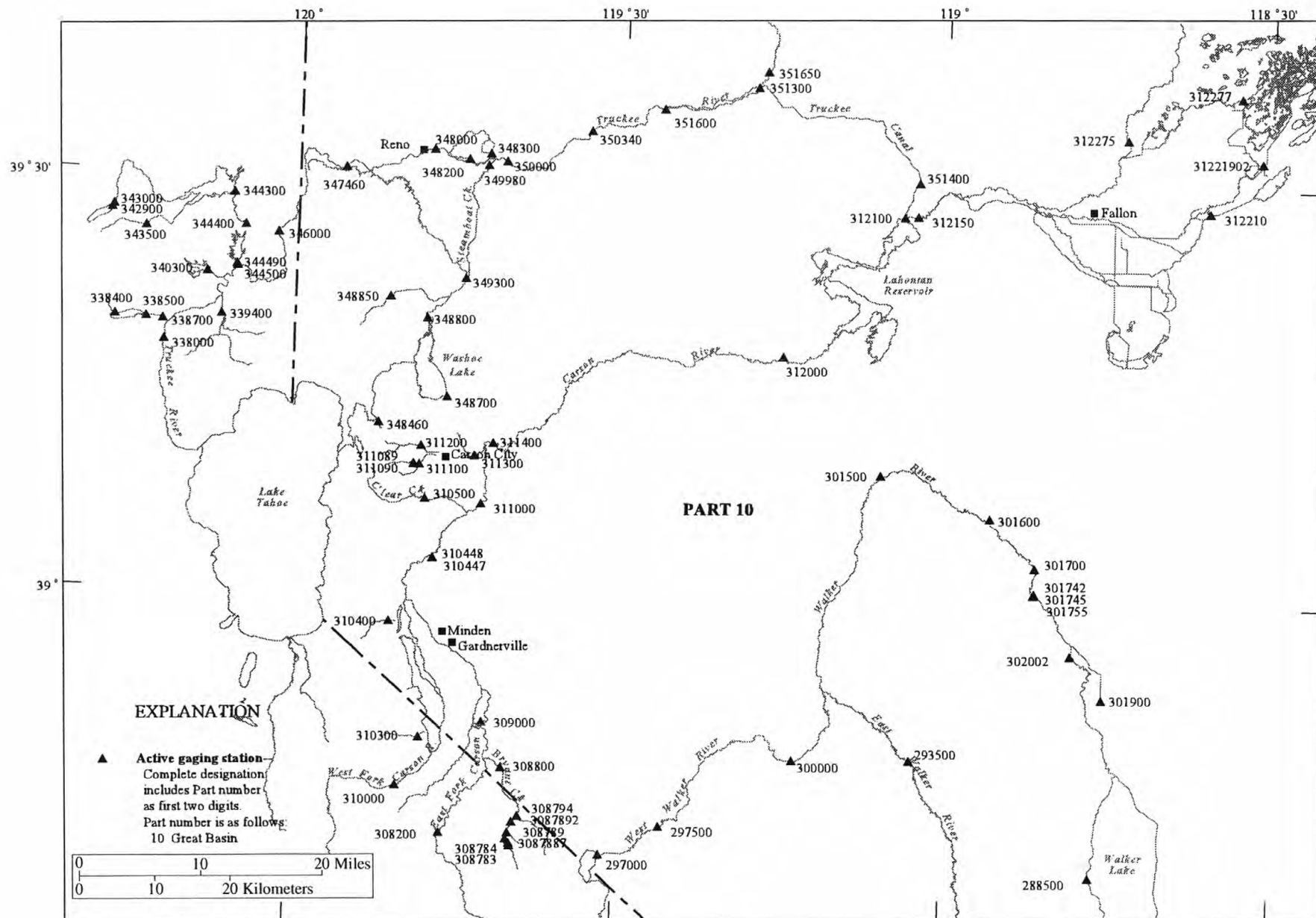


Figure 13. Gaging stations, west-central Nevada.

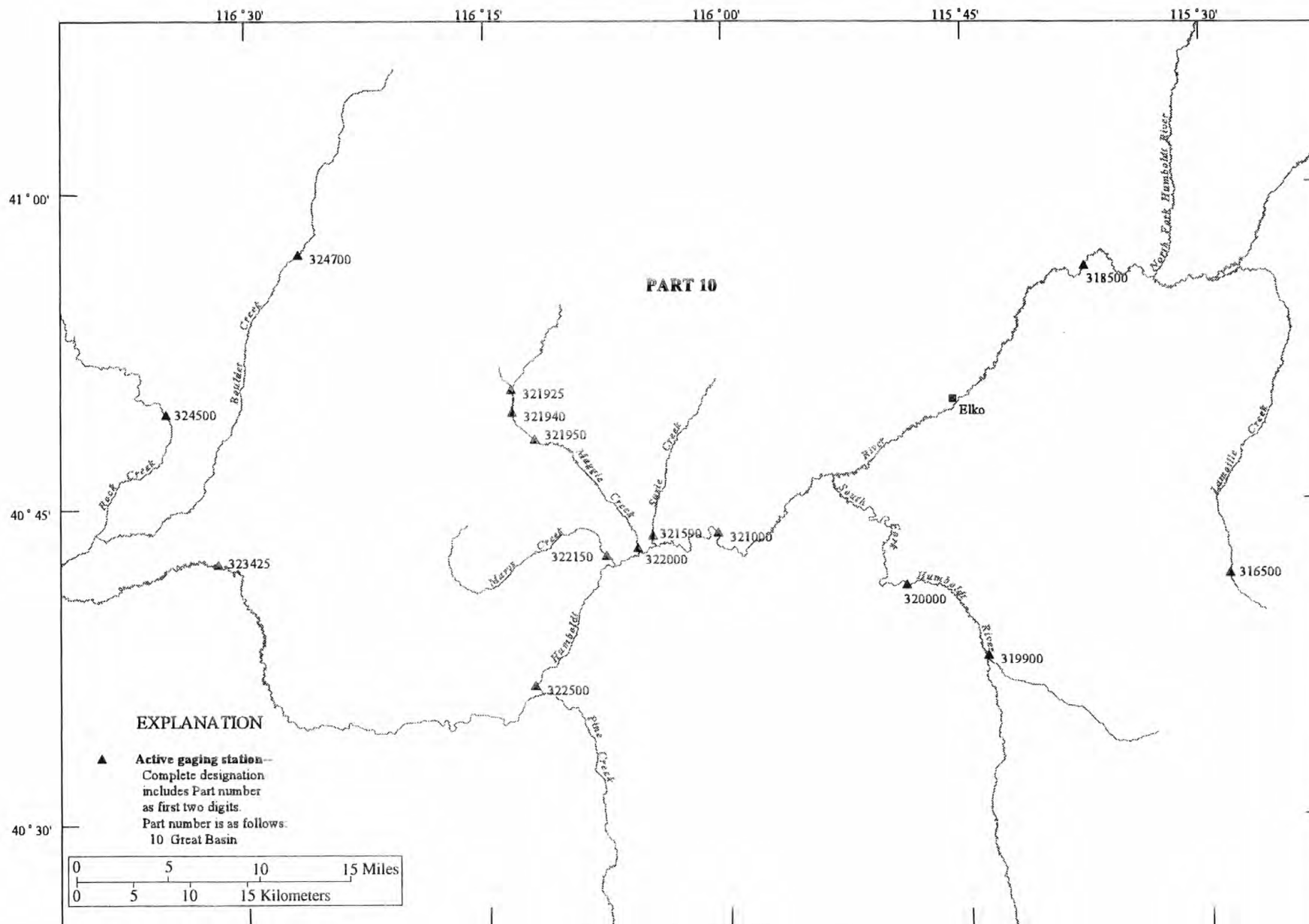


Figure 14. Gaging stations, upper Humboldt River, Nevada.

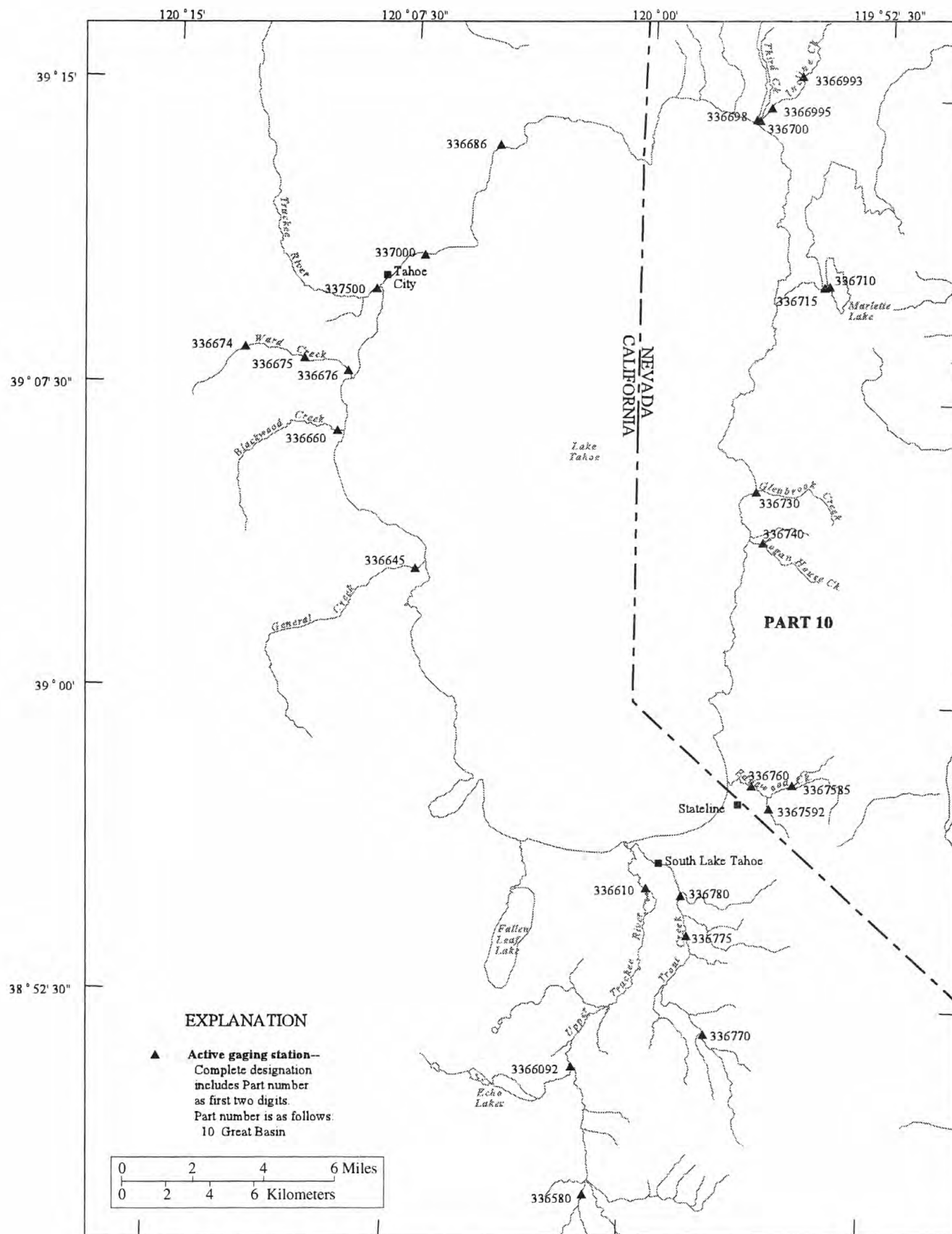


Figure 15. Gaging stations, Lake Tahoe basin.

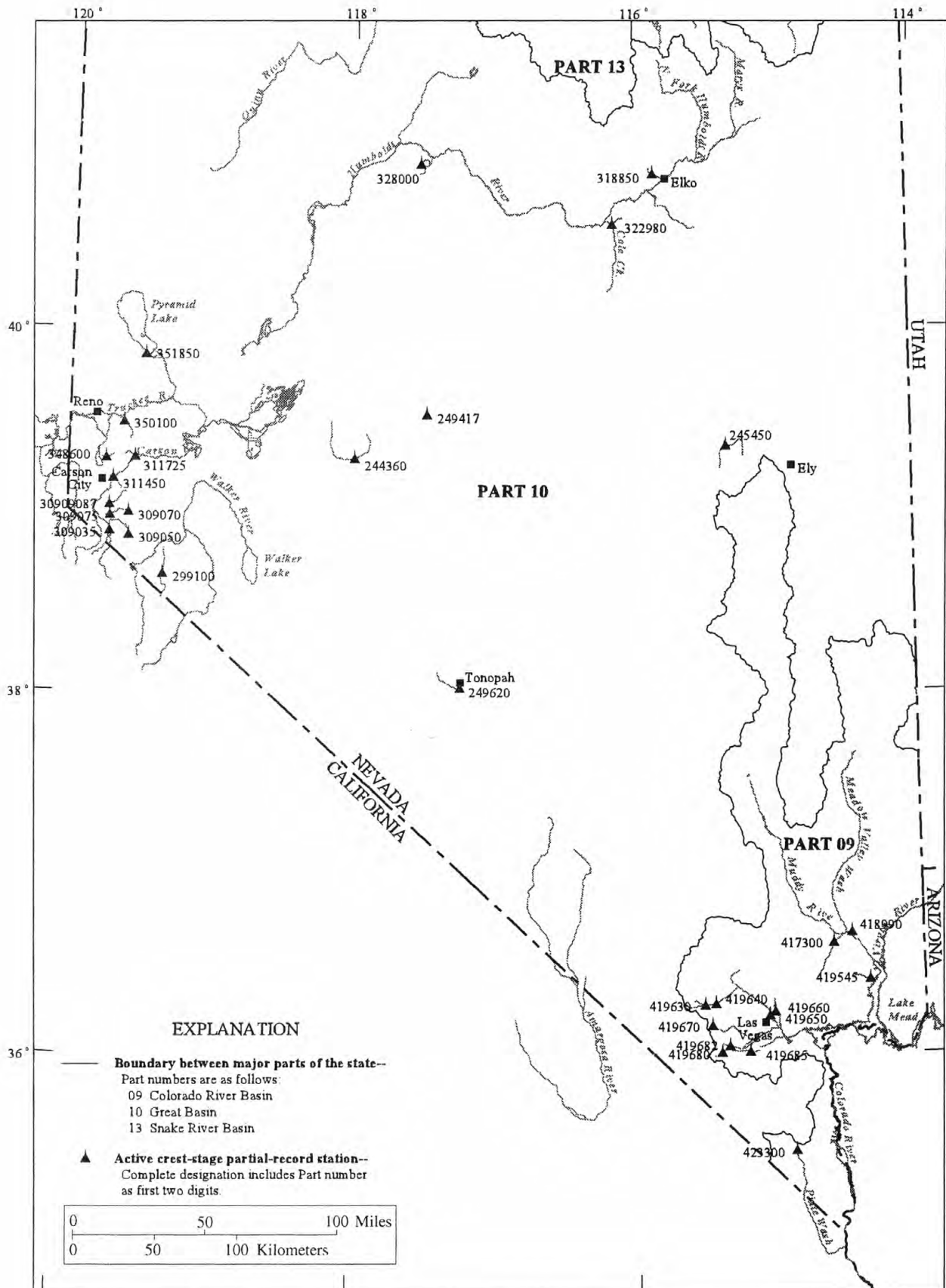


Figure 16. Crest-stage partial-record stations listed in this report.

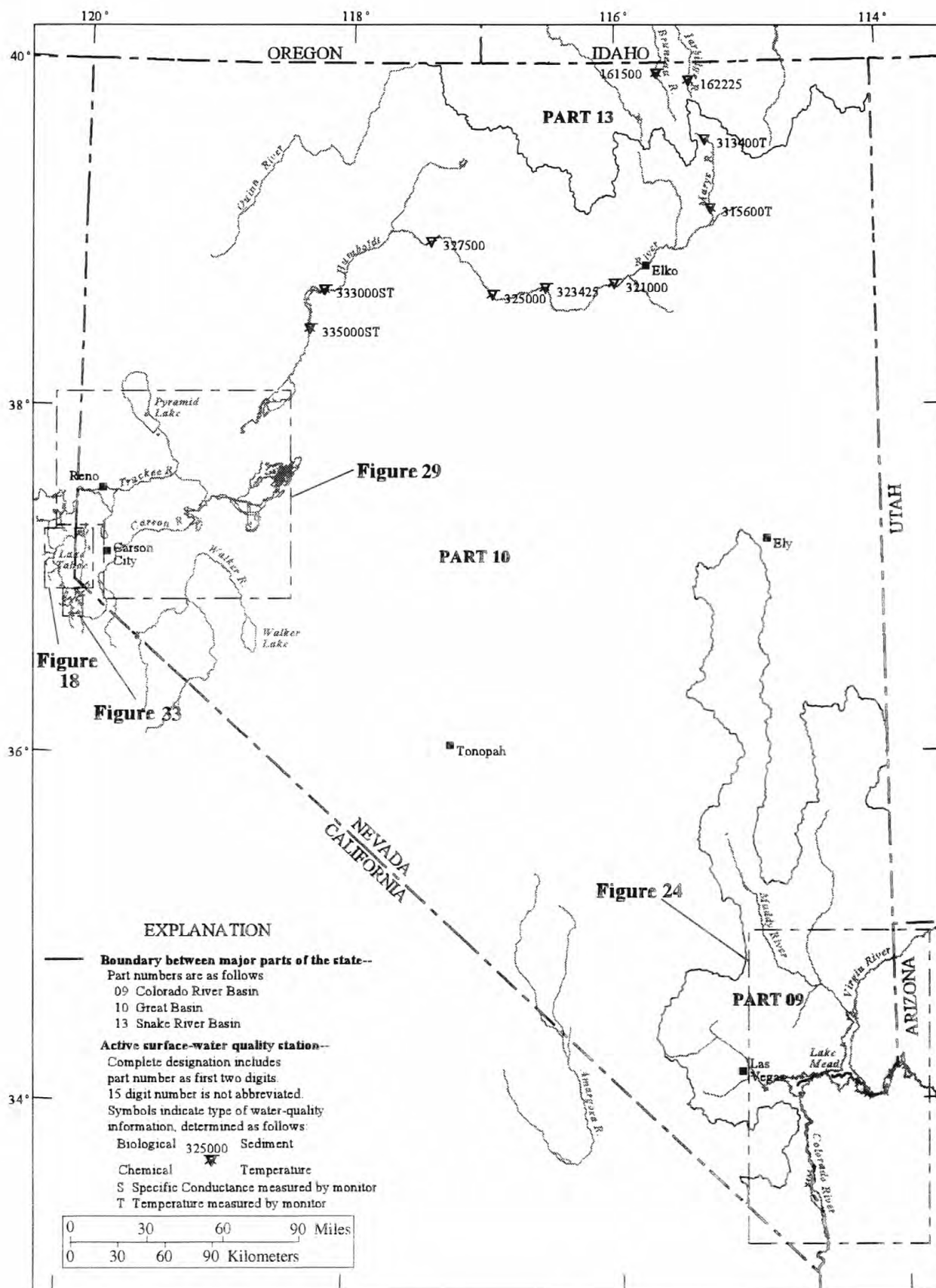


Figure 17. Surface-water quality stations listed in this report.

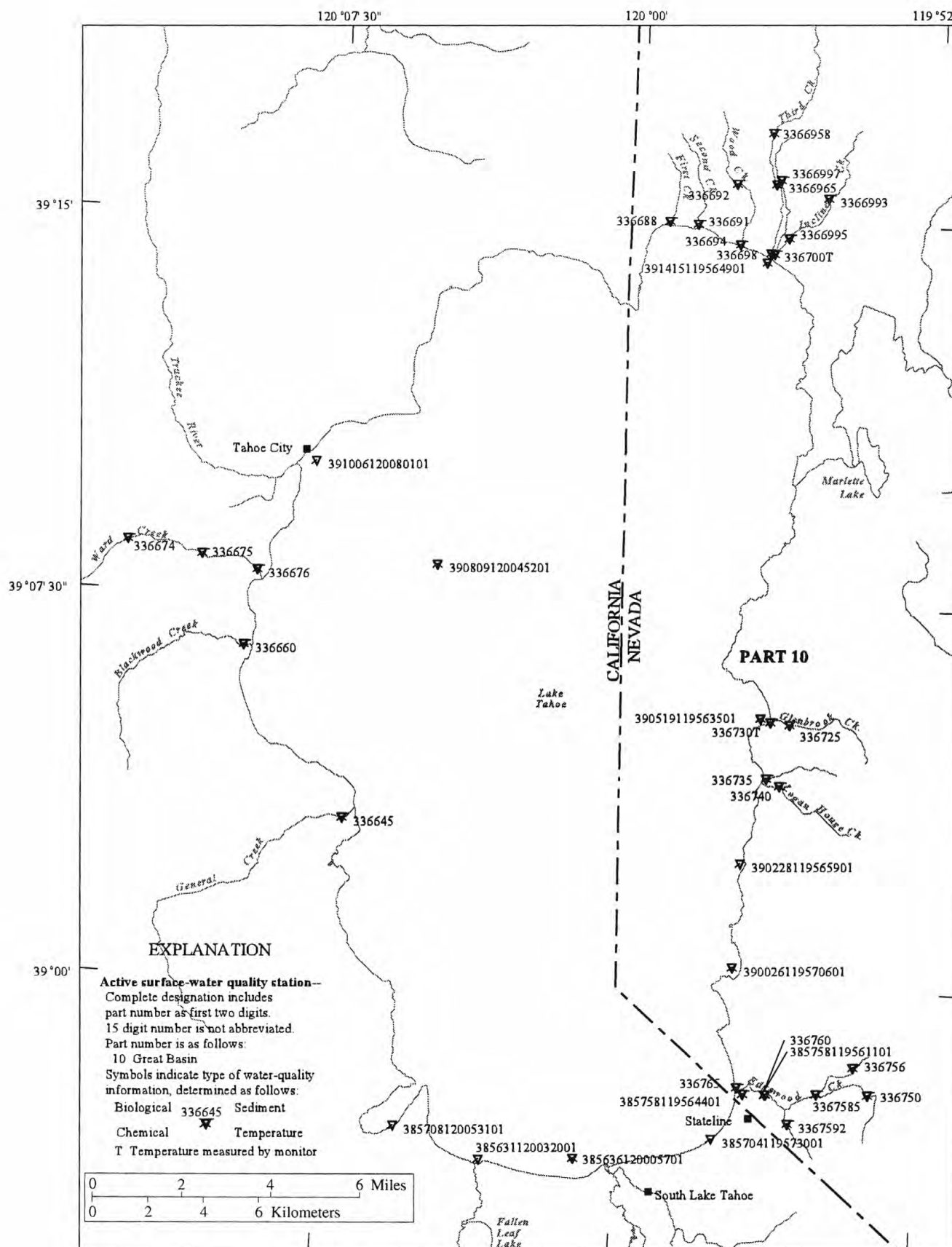


Figure 18. Surface-water quality stations, Lake Tahoe.

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. Lamoille V.
46. South Fork Area
47. Huntington V.
48. Dixie Creek --
Tennile 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. Inlay Area
73. Lovelock V.
(A) Oreana Subarea
74. White Plains

5-WEST CENTRAL REGION

75. Bradys Hot Springs Area
76. Femley Area
77. Fireball V.
78. Granite Springs V.
79. Kumiva V.

6-TRUCKEE RIVER BASIN

80. Winnemucca Lake V.
81. Pyramid Lake V.
82. Dodge Flat
83. Tracy Segment
84. Warm Springs V.

85. Spanish Springs V.
86. Sun V.
87. Truckee Meadows
88. Pleasant V.
89. Washoe V.
90. Lake Tahoe Basin
91. Truckee Canyon Segment

7-WESTERN REGION

92. Lemmon V.
(A) Western Part
(B) Eastern Part
93. Antelope V.
94. Bedell Flat
95. Dry V.
96. Newcomb Lake V.
97. Honey Lake V.
98. Skeddadle Creek V.
99. Red Rock V.
100. Cold Spring V.
(A) Long V.

8-CARSON RIVER BASIN

101. Carson Desert
(A) Packard V.
102. Churchill V.
103. Dayton V.
104. Eagle V.
105. Carson Valley

9-WALKER RIVER BASIN

106. Antelope V.
107. Smith V.
108. Mason V.
109. East Walker Area
110. Walker Lake V.
(A) Schurz Subarea
(B) Lake Subarea
(C) Whisky Flat --
Hawthorne Subarea

10-CENTRAL REGION

111. Alkali V. (Mineral).
(A) Northern Part
(B) Southern Part
112. Mono V.
113. Huntoon V.
114. Teels Marsh V.
115. Adobe V.
116. Queen V.
117. Fish Lake V.
118. Columbus Salt Marsh V.
119. Rhodes Salt Marsh V.
120. Garfield Flat
121. Soda Spring V.
(A) Eastern Part
(B) Western Part
122. Gabbs V.
123. Rawhide Flats
124. Fairview V.
125. Stingaree V.
126. Cowkick V.
127. Eastgate V. Area
128. Dixie V.
129. Buena Vista V.
130. Pleasant V.
131. Buffalo V.
132. Jersey V.
133. Edwards Creek V.
134. Smith Creek V.
135. Ione V.
136. Monte Cristo V.
137. Big Smoky V.
(A) Tonopah Flat
(B) Northern Part
138. Grass V.
139. Kobeh V.
140. Monitor V.
(A) Northern Part
(B) Southern Part
141. Ralston V.
142. Alkali Spring V. (Esmeralda)
143. Clayton V.
144. Lida V.
145. Stonewall Flat
146. Sarcobatus Flat
147. Gold Flat
148. Cactus Flat
149. Stone Cabin V.
150. Little Fish Lake V.
151. Antelope V. (Eureka & Nye)
152. Stevens Basin
153. Diamond V.
154. Newark V.
155. Little Smoky V.
(A) Northern Part
(B) Central Part
(C) Southern Part
156. Hot Creek V.
157. Kawich V.
158. Emigrant V.
(A) Groom Lake V.
(B) Papoose Lake V.

159. Yucca Flat
160. Frenchman Flat
161. Indian Springs V.
162. Pahump 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. Tippet 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. Piute V.
215. Black Mountains Area
216. Garnet V. (Dry Lake V.)*
217. Hidden V. (North)*
218. California Wash
219. Muddy River Springs Area (Upper Moapa V.)
220. Lower Moapa V.
221. Tule Desert
222. Virgin River V.
223. Gold Butte Area
224. Greasewood Basin

*Noncontributing part of the
Colorado River Basin

14-DEATH VALLEY BASIN

225. Mercury V.
226. Rock V.
227. Fortymile Canyon
(A) Jackass Flats
(B) Buckboard Mesa
228. Oasis V.
229. Crater Flat
230. Amargosa Desert
231. Grapevine Canyon
232. Oriental Wash

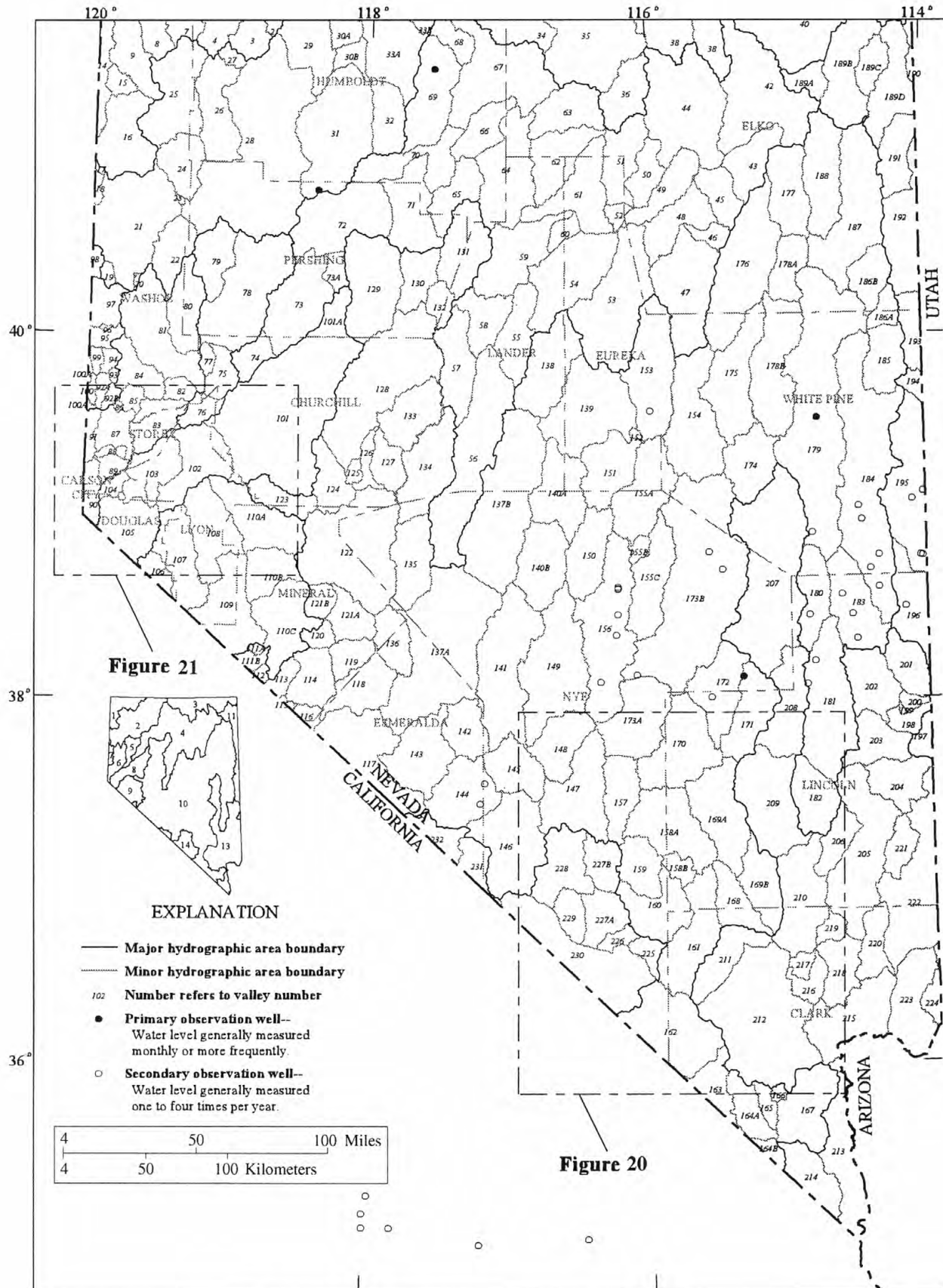


Figure 19. Ground-water sites listed in this report.

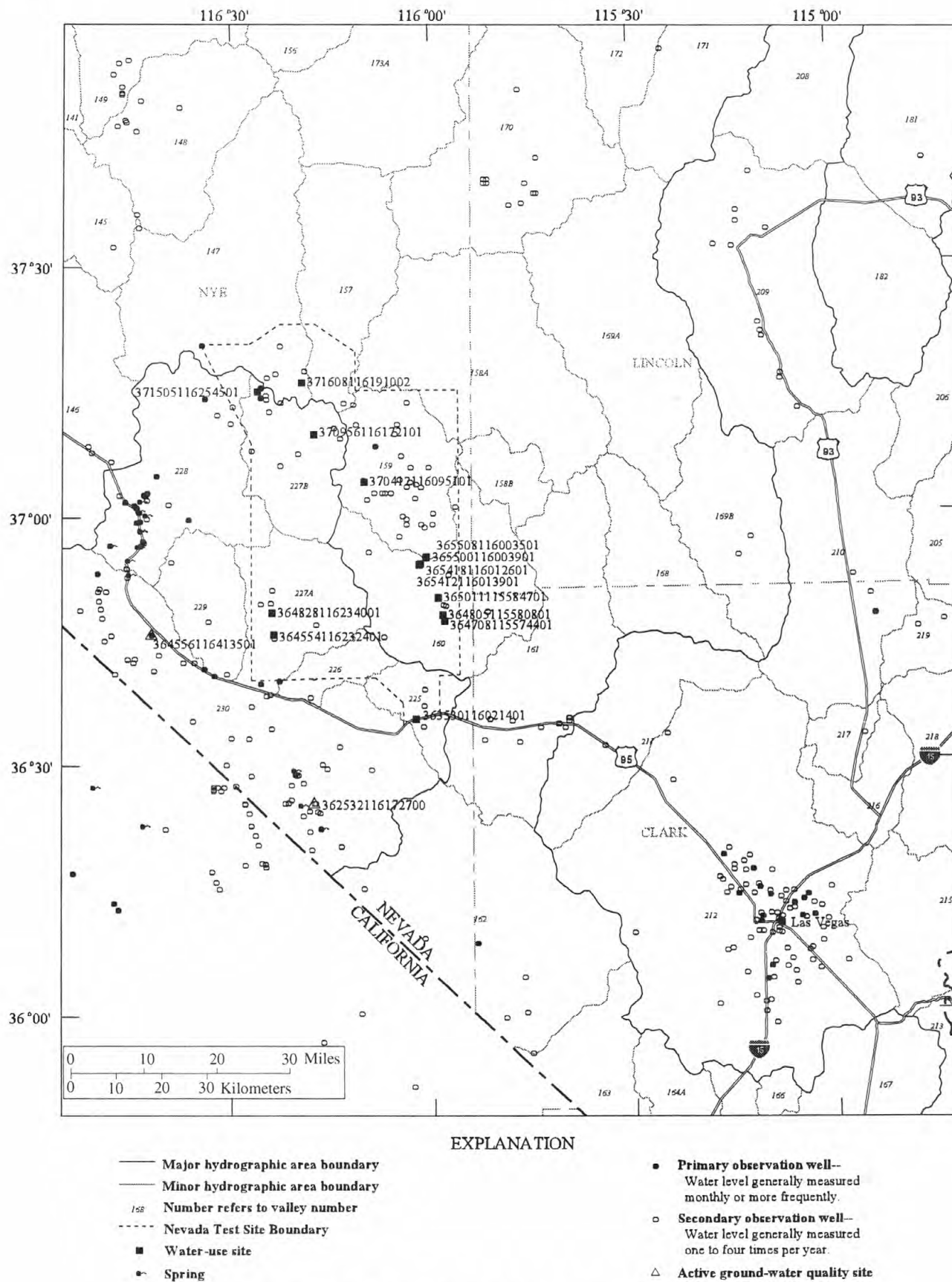


Figure 20. Ground-water sites, southern Nevada.

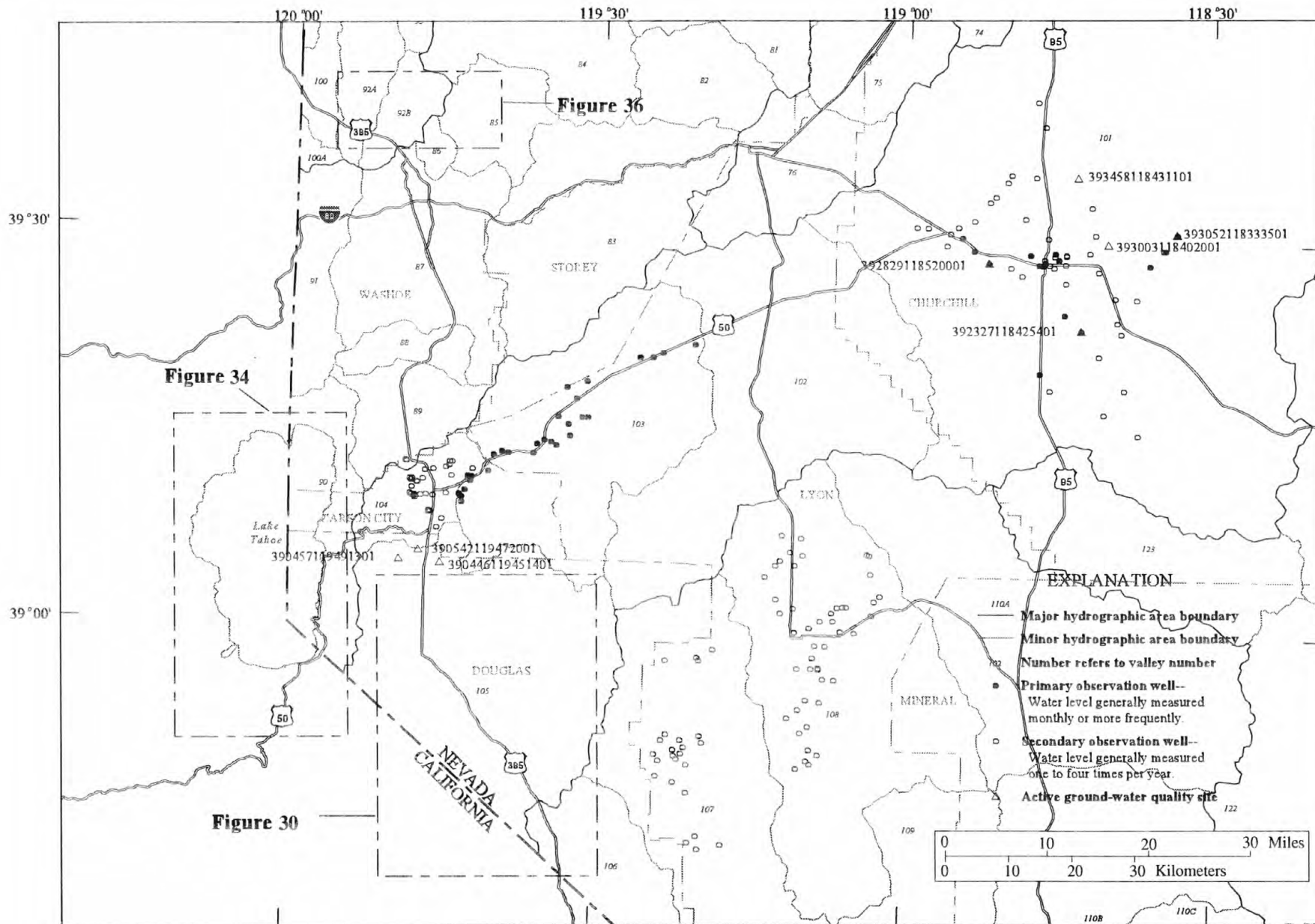


Figure 21. Ground-water sites, west-central Nevada.

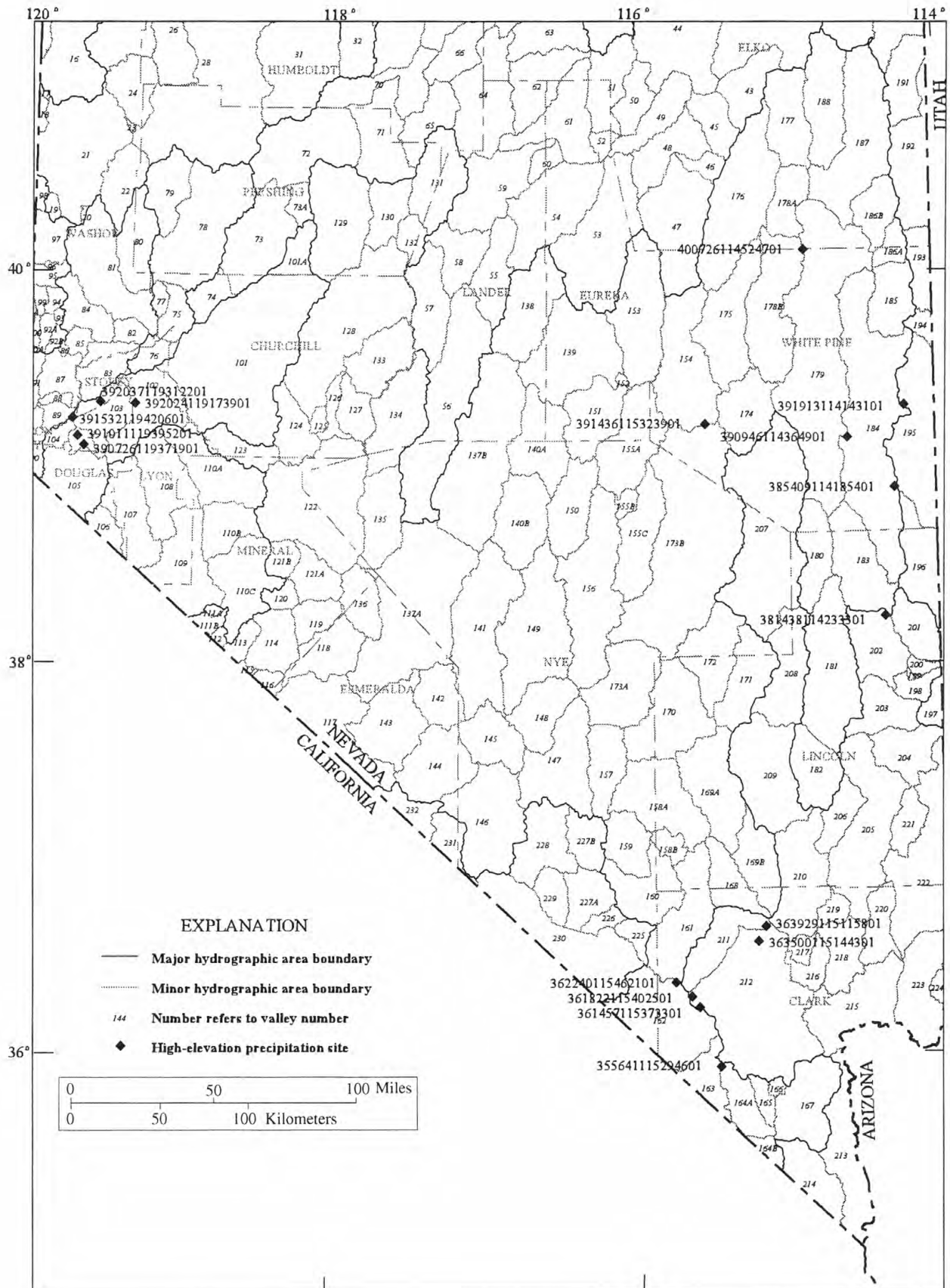
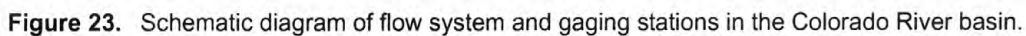


Figure 22. High-elevation precipitation sites listed in this report.



SURFACE-WATER RECORDS

COLORADO RIVER BASIN

VIRGIN RIVER BASIN

09413700 VIRGIN RIVER ABOVE THE NARROWS NEAR LITTLEFIELD, AZ

LOCATION.--Lat 36°55'16", long 113°49'52", in NE 1/4 SE 1/4 sec. 29, T.41 N., R.14 W., Mohave County, Hydrologic Unit 15010010, on right bank, 50 ft east of edge of roadway of I-15, 225 ft south of mile marker 15, 6.8 mi upstream from Littlefield, and 43 mi upstream from Lake Mead.

DRAINAGE AREA.--4,415 mi², approximately.

WATER-DISCHARGE RECORDS

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1, 1989, 61,000 ft³/s, on basis of slope-area measurement of peak flow at site about 1.0 mi downstream, due to failure of Quail Creek Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 2,110 ft³/s, August 31, gage height, 10.57 ft; minimum daily, 5.5 ft³/s, June 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	225	196	215	174	130	63	198	29	9.5	172	242
2	57	224	207	210	174	110	54	190	27	15	113	141
3	52	207	208	208	167	89	69	199	134	7.7	78	101
4	60	180	207	202	176	71	70	361	157	7.2	43	58
5	76	169	209	192	198	77	77	267	204	7.0	28	64
6	88	174	209	201	192	66	94	224	175	6.1	23	80
7	98	162	206	205	182	67	e74	205	157	9.7	30	54
8	78	185	210	195	175	103	e58	207	121	53	27	41
9	83	510	216	195	178	98	e78	194	60	181	42	37
10	103	275	227	196	264	82	e64	208	41	251	36	53
11	90	221	211	201	327	75	e69	194	28	222	47	51
12	105	227	226	182	192	75	e77	174	30	231	144	130
13	110	224	227	149	191	74	139	160	28	165	71	87
14	107	203	231	136	195	71	119	137	34	141	48	60
15	118	200	223	119	193	62	126	135	29	185	33	49
16	121	202	229	141	181	65	91	117	26	382	69	55
17	112	213	226	144	170	71	86	107	20	94	70	59
18	113	206	221	146	166	56	88	111	15	85	69	70
19	110	203	215	145	168	58	99	181	16	75	41	103
20	108	193	220	135	161	58	76	154	20	125	45	92
21	102	255	220	137	158	74	62	92	23	167	61	54
22	193	221	211	144	156	76	60	46	16	64	61	50
23	209	197	201	133	158	67	87	43	12	35	69	64
24	146	189	210	145	158	55	127	65	12	23	62	64
25	352	182	207	156	156	60	155	48	11	20	68	60
26	489	177	222	177	154	53	169	33	13	37	43	54
27	361	175	219	206	147	60	155	25	13	38	49	67
28	224	174	222	182	138	58	180	21	5.5	31	46	53
29	184	181	221	176	---	66	163	27	9.8	298	56	35
30	189	200	219	178	---	51	161	27	13	191	68	42
31	210	---	219	174	---	62	---	27	---	240	714	---
TOTAL	4496	6354	6695	5325	5049	2240	2990	4177	1479.3	3396.2	2526	2170
MEAN	145	212	216	172	180	72.3	99.7	135	49.3	110	81.5	72.3
MAX	489	510	231	215	327	130	180	361	204	382	714	242
MIN	48	162	196	119	138	51	54	21	5.5	6.1	23	35
AC-FT	8920	12600	13280	10560	10010	4440	5930	8290	2930	6740	5010	4300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
MEAN	145	212	216	172	180	72.3	99.7	135	49.3	131	66.4	224
MAX	145	212	216	172	180	72.3	99.7	135	49.3	153	81.5	376
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1999	1998
MIN	145	212	216	172	180	72.3	99.7	135	49.3	110	51.4	72.3
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1999

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL	46897.5	
ANNUAL MEAN	128	128
HIGHEST ANNUAL MEAN		128
LOWEST ANNUAL MEAN		128
HIGHEST DAILY MEAN	714	2600
LOWEST DAILY MEAN	5.5	5.5
ANNUAL SEVEN-DAY MINIMUM	8.9	8.9
INSTANTANEOUS PEAK FLOW	2110	61000
INSTANTANEOUS PEAK STAGE	10.57	
ANNUAL RUNOFF (AC-FT)	93020	93080
10 PERCENT EXCEEDS	221	223
50 PERCENT EXCEEDS	119	110
90 PERCENT EXCEEDS	29	29

e Estimated

VIRGIN RIVER BASIN

09413700 VIRGIN RIVER ABOVE THE NARROWS NEAR LITTLEFIELD, AZ--Continued

WATER-QUALITY RECORDS

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

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999									
DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV									
16...	1015	199	2000.	8.2	16.5	9.0	710	--	--
JAN									
12...	1100	186	--	7.8	13.5	6.0	--	--	--
MAR									
01...	1020	128	2070.	8.4	--	12.0	712	10.2	102
APR									
13...	1030	155	2900.	8.3	21.0	14.0	710	9.3	98
MAY									
28...	0945	23	3120.	8.4	--	22.5	708	9.0	113
JUL									
28...	1000	29	2730.	8.5	--	25.5	710	8.6	114
SEP									
28...	0940	50	2850.	8.5	23.0	15.0	715	9.6	102

VIRGIN RIVER BASIN

09414900 BEAVER DAM WASH AT BEAVER DAM, AZ

LOCATION.--Lat 36°54'07", long 113°55'58", in NW 1/4 NE 1/4 NE 1/4 sec. 5, T.40 N., R.15 W., Mohave County, Hydrologic Unit 15010010, Bureau of Land Management, on upstream end of bridge pier at Beaver Dam, AZ.

DRAINAGE AREA.--575 mi².

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

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

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

EXTREMES PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s, February 10, 1993, gage height, 7.14 ft from rating curve extended above 2,220 ft³/s, minimum daily, 0.11 ft³/s, February 18, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 100 ft³/s, November 8, gage height, 4.83 ft; minimum daily, 1.6 ft³/s, August 12, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.5	2.8	3.0	2.8	2.7	2.7	2.2	1.7	2.5	2.0	5.1
2	2.6	2.5	2.8	3.0	2.8	2.8	2.6	2.3	2.0	2.5	2.0	4.6
3	2.6	2.4	2.8	3.0	2.8	2.9	2.6	2.4	2.4	2.4	2.0	4.2
4	2.6	2.4	2.8	3.1	2.8	2.9	2.6	2.3	2.5	2.4	2.0	3.7
5	2.6	2.4	2.8	3.1	2.8	3.0	2.5	2.4	2.5	2.4	2.0	3.2
6	2.6	2.4	2.9	3.0	2.7	3.0	2.4	2.5	2.7	2.4	2.0	2.7
7	2.6	2.4	3.0	3.0	2.9	3.0	2.4	2.7	2.7	2.4	2.0	2.4
8	2.5	5.8	3.0	3.0	2.9	3.0	2.4	2.7	2.5	2.4	1.9	2.0
9	2.5	2.7	3.0	3.0	2.8	2.9	2.5	2.7	2.6	2.5	1.8	1.8
10	2.5	2.2	3.0	2.8	2.8	3.0	2.5	2.8	2.6	2.2	1.8	1.8
11	2.5	2.3	3.0	2.7	2.8	3.0	2.5	2.8	2.5	2.1	1.7	1.8
12	2.5	2.3	3.0	2.7	2.8	2.9	2.6	2.5	2.6	2.0	1.6	1.8
13	2.5	2.4	3.0	2.7	2.8	2.8	2.5	2.6	2.7	2.1	1.7	1.9
14	2.5	2.5	2.9	2.7	2.8	2.8	2.5	2.7	2.6	2.1	1.7	1.9
15	2.5	2.5	2.9	2.7	2.8	2.8	2.5	2.6	2.7	2.7	1.7	2.0
16	2.5	2.6	3.0	2.7	2.8	2.8	2.4	2.3	2.4	2.3	1.7	2.0
17	2.4	2.4	3.0	2.7	2.8	2.8	2.4	2.2	2.4	2.2	1.7	2.0
18	2.5	2.5	3.0	2.7	2.8	2.8	2.4	2.3	2.4	2.1	1.7	2.0
19	2.5	2.5	3.1	2.7	2.8	2.8	2.4	2.3	2.4	2.1	1.6	2.0
20	2.6	2.5	3.1	2.8	2.8	2.8	2.5	2.2	2.4	2.2	1.6	1.9
21	2.7	2.5	3.1	2.7	2.8	2.8	2.5	2.2	2.4	2.2	1.7	1.9
22	2.6	2.7	3.1	2.5	2.7	2.8	2.4	2.1	2.4	2.2	1.7	2.1
23	2.6	2.6	3.1	2.6	2.7	2.8	2.4	1.9	2.6	2.4	1.7	2.1
24	2.6	2.7	e3.1	2.7	2.7	2.8	2.4	2.0	2.5	2.4	1.7	2.0
25	2.7	2.7	3.1	2.7	2.7	2.8	2.4	2.1	2.5	2.2	1.8	2.0
26	2.6	2.7	3.0	2.8	2.7	2.8	2.4	2.1	2.4	2.1	1.7	2.0
27	2.6	2.8	3.0	2.8	2.7	2.7	2.2	2.1	2.4	2.1	1.7	2.1
28	2.6	2.8	3.0	2.8	2.7	2.7	2.3	2.1	2.5	2.2	1.9	2.1
29	2.7	2.8	3.0	2.8	---	2.7	2.2	2.0	2.5	2.2	1.8	2.1
30	2.6	2.8	2.9	2.8	---	2.6	2.1	2.0	2.5	2.1	1.8	2.2
31	2.5	---	2.9	2.8	---	2.7	---	1.8	---	2.1	10	---
TOTAL	79.5	79.3	92.2	87.1	77.8	87.7	73.2	71.9	74.0	70.2	63.7	71.4
MEAN	2.56	2.64	2.97	2.81	2.78	2.83	2.44	2.32	2.47	2.26	2.05	2.38
MAX	2.7	5.8	3.1	3.1	2.9	3.0	2.7	2.8	2.7	2.7	10	5.1
MIN	2.4	2.2	2.8	2.5	2.7	2.6	2.1	1.8	1.7	2.0	1.6	1.8
AC-FT	158	157	183	173	154	174	145	143	147	139	126	142

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999
MEAN	2.39	2.46	2.85	3.00	10.0	8.77	4.33
MAX	2.88	2.89	3.23	3.19	31.2	30.1	9.31
(WY)	1994	1996	1996	1996	1998	1993	1993
MIN	1.64	1.55	2.21	2.81	2.78	2.59	2.44
(WY)	1998	1998	1998	1999	1999	1994	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

ANNUAL TOTAL	1897.2	928.0	
ANNUAL MEAN	5.20	2.54	3.19
HIGHEST ANNUAL MEAN			4.96
LOWEST ANNUAL MEAN			2.54
HIGHEST DAILY MEAN	727	Feb 24	1730
LOWEST DAILY MEAN	1.3	Jul 1	.11
ANNUAL SEVEN-DAY MINIMUM	1.3	Jun 30	.82
INSTANTANEOUS PEAK FLOW			5940
INSTANTANEOUS PEAK STAGE			7.14
ANNUAL RUNOFF (AC-FT)	3760	1840	2310
10 PERCENT EXCEEDS	3.9	3.0	3.4
50 PERCENT EXCEEDS	2.6	2.5	2.5
90 PERCENT EXCEEDS	1.8	2.0	1.8

e Estimated

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, October 1992 to September 1995.

REMARKS.--Data was collected in cooperation with the Southern Nevada Water Authority to characterize the hydraulics and water quality of the Virgin River Basin and to establish information on chemical loading into Lake Mead. Streamflow is not completely homogenous chemically from bank to bank. Flow adjacent to north (right) bank is generally more dilute than average, particularly at times of low streamflow; monthly data collected during June 1975-September 1976 indicate that specific conductance off north bank was 93 to 100 percent of streamwide average (range of discharge, 60-230 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, Nevada. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

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 1998 TO SEPTEMBER 1999													
			DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L CaCO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS Ca) (00915)	
NOV 17...	1000	ENVIRONMENTAL	275	710	--	--	7.8	2280	14.5	14.0	--	--	
JAN 26...	0940	ENVIRONMENTAL	255	715	95	9.6	7.7	2400	9.5	11.5	780	200	
MAR 02...	0940	ENVIRONMENTAL	169	715	101	9.4	8.0	2470	21.5	15.5	870	230	
MAY 05...	1030	ENVIRONMENTAL	305	715	97	8.8	7.9	1610	--	16.5	550	150	
JUN 22...	0930	ENVIRONMENTAL	78	710	105	8.2	8.0	3090	37.0	23.5	1140	300	
AUG 24...	0920	ENVIRONMENTAL	129	710	102	7.8	8.0	2850	32.5	24.5	1000	280	
24...	0930	FIELD BLANK	--	--	--	--	--	--	--	--	--	<.002	
		MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS Na) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CaCO3) (39086)	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SiO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 17...	--	--	--	--	--	243	297	--	--	--	--	.06	<.10
JAN 26...	64	19	3	200	212	259	276	.60	17	607	.07	.14	
MAR 02...	71	20	3	210	245	299	283	.73	18	671	<.02	E.08	
MAY 05...	45	12	2	120	200	244	154	.47	13	496	.05	.15	
JUN 22...	93	18	3	260	270	329	362	.96	16	946	.04	.12	
AUG 24...	80	24	3	250	259	316	333	.86	19	816	<.02	.13	
24...	<.001	--	--	<.025	--	--	--	--	<.02	--	<.002	--	--
		NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	UV ABSORB-ANCE 254 NM, WTR FLT /CM) (50624)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	TUR-BID-ITY (NTU) (00076)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)
NOV 17...	.22	.85	<.01	.08	.07	.14	--	--	--	--	--	--	--
JAN 26...	.88	.76	<.01	.08	.09	.46	--	1640	1520	2.24	126	K86	
MAR 02...	.26	.99	.02	.10	.10	.17	--	1780	1660	2.42	36	K100	
MAY 05...	.15	.52	<.01	.06	.05	.06	.0505	1090	1110	1.48	360	K76	
JUN 22...	.23	.33	.01	<.05	.02	.07	.0223	2240	2170	3.05	1.5	K12	
AUG 24...	.30	.98	<.01	.09	.15	.18	.0401	2020	1970	2.75	91	K3000	
24...	--	<.005	<.001	--	.001	--	--	--	--	--	--	--	--

VIRGIN RIVER BASIN
09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI KF AGAR (COLS. PER 100 ML) (31673)	ALUMINUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTIMONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC, DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYLLIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	CADMIUM, DIS- SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	K50	400	--	--	7.7	--	--	560	--	--	--	--
MAR 02...	K52	700	--	--	9.2	--	--	620	--	--	--	--
MAY 05...	280	370	--	--	6.7	--	--	360	--	--	--	--
JUN 22...	K45	K33	--	--	7.8	--	--	920	--	--	--	--
AUG 24...	340	260	--	--	9.4	--	--	810	--	--	--	--
24...	--	--	<.3	<.2	--	<.2	<.2	<2	<.3	.259	<.2	<.2
DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM, DIS- SOLVED (UG/L AS LI) (01130)	MANGANESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELENIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRONTIUM, DIS- SOLVED (UG/L AS SR) (01080)	THALLIUM, DIS- SOLVED (UG/L AS TL) (01057)	VANADIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 26...	<10	--	240	--	--	--	1.3	--	2635	--	5.4	--
MAR 02...	<10	--	280	--	--	--	1.0	--	2890	--	5.5	--
MAY 05...	<10	--	160	--	--	--	<1.0	--	1791	--	3.0	--
JUN 22...	<30	--	410	--	--	--	1.5	--	3644	--	5.7	--
AUG 24...	<30	--	310	--	--	--	1.3	--	3473	--	8.9	--
24...	<3	<.3	--	<.1	<.2	<.5	--	<.2	<.1	<.1	--	<.5
DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC (UG/L) (46342)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOPURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)
NOV 17...	1.2	0.8	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
JAN 26...	1.2	1.1	--	--	--	--	--	--	--	--	--	--
MAR 02...	1.3	0.2	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
MAY 05...	2.1	0.6	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
JUN 22...	4.6	0.6	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
AUG 24...	1.8	1.3	<.003	<.002	<.002	<.002	<.0075	<.002	<.002	<.003	<.003	<.004
24...	<0.1	--	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZINON D10 SRG WAT FLT 0.7 U GF, REC (UG/L) (91063)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER FLTRD 0.7 U GF, REC (UG/L) (04095)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC (UG/L) (91065)
NOV 17...	<.004	<.002	<.002	94.4 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003	90.6 ^a
JAN 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	<.004	<.002	<.002	109 ^a	E.0024	<.001	<.017	<.002	<.004	<.003	<.003	87.0 ^a
MAY 05...	<.004	<.002	<.002	104 ^a	.0077	<.001	<.017	<.002	<.004	<.003	<.003	90.0 ^a
JUN 22...	<.004	<.002	<.002	105 ^a	.022	<.001	<.017	<.002	<.004	<.003	<.003	91.3 ^a
AUG 24...	<.004	<.002	<.002	119 ^a	.010	<.001	<.017	<.002	<.004	<.003	<.003	106 ^a
24...	<.004	<.002	<.002	96.6 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003	94.1 ^a

VIRGIN RIVER BASIN
09415000 VIRGIN RIVER AT LITTLEFIELD, AZ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)
NOV 17...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
JAN 26...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
MAY 05...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
JUN 22...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
AUG 24...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
24...	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006	<.004
DATE	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
NOV 17...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.01
JAN 26...	--	--	--	--	--	--	--	--	--	--	--
MAR 02...	<.004	<.004	<.005	<.002	E.0049	<.003	<.007	<.004	<.013	<.005	E.0058
MAY 05...	<.004	<.004	<.005	<.002	E.015	<.003	<.007	<.004	<.013	<.005	<.01
JUN 22...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.01
AUG 24...	<.004	<.004	<.005	<.002	E.0081	<.003	<.007	<.004	<.013	<.005	<.01
24...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	--	<.005	<.01
DATE	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS- SOLVED (UG/L) AS U (22703)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
NOV 17...	<.007	<.013	99.0 ^a	<.002	<.001	<.002	--	911	1230	45	
JAN 26...	--	--	--	--	--	--	--	1070	1560	40	
MAR 02...	<.007	<.013	107 ^a	<.002	<.001	<.002	--	348	763	39	
MAY 05...	<.007	<.013	109 ^a	<.002	<.001	<.002	--	1720	2090	42	
JUN 22...	<.007	<.013	--	<.002	<.001	<.002	--	47	224	14	
AUG 24...	<.007	<.013	--	<.002	<.001	<.002	--	183	526	88	
24...	<.007	<.013	--	<.002	<.001	<.002	<.2	--	--	--	

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

K: Non-Ideal Colony Count

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

VIRGIN RIVER BASIN

09415590 CRYSTAL SPRING NEAR HIKO, NV

LOCATION.--Lat 37°31'55", long 115°13'54", in SE 1/4 NE 1/4 sec.10, T.5 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on right bank, 75 ft south of State Highway 25, 200 ft southeast of junction of State Highway 38, and 4.5 mi south of Hiko.

DRAINAGE AREA.--Indeterminate.

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20 ft³/s, June 29, 1999, gage height, 1.39 ft; minimum daily, 1.0 ft³/s, September 24, 27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s, June 29, gage height, 1.39 ft; minimum daily, 3.0 ft³/s, February 21-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	11	11	5.8	3.3	12	12	12	12	3.7
2	---	---	---	11	11	11	3.3	12	12	12	11	3.7
3	---	---	---	11	11	11	3.4	12	12	12	4.3	5.8
4	---	---	---	11	11	11	5.6	12	12	12	4.1	12
5	---	---	---	11	11	11	12	13	11	12	4.3	12
6	---	---	---	11	11	11	12	13	11	11	4.2	12
7	---	---	---	11	11	11	12	13	11	4.5	6.7	12
8	---	---	---	11	11	11	12	13	11	4.6	12	12
9	---	---	---	11	11	11	12	13	11	4.6	12	12
10	---	---	---	11	11	11	12	7.4	11	4.6	12	12
11	---	---	---	11	11	11	12	3.1	11	4.7	12	12
12	---	---	---	11	11	11	12	3.2	12	11	12	12
13	---	---	---	11	11	11	12	3.3	12	12	12	12
14	---	---	---	11	11	11	12	3.2	12	12	12	12
15	---	---	---	11	11	11	12	3.2	5.4	12	12	12
16	---	---	---	11	11	11	12	5.0	3.3	12	12	12
17	---	---	---	11	11	11	12	12	3.3	12	12	12
18	---	---	11	11	11	11	12	12	3.4	12	12	12
19	---	---	11	11	11	11	5.7	12	3.4	12	12	12
20	---	---	11	11	5.2	11	3.5	12	3.5	12	9.9	12
21	---	---	11	11	3.0	11	3.6	12	3.5	12	10	12
22	---	---	11	11	3.0	11	3.6	12	3.5	12	12	12
23	---	---	11	11	3.0	11	3.7	12	9.8	12	12	12
24	---	---	11	11	3.0	12	3.8	12	12	12	12	12
25	---	---	11	11	3.0	12	9.7	12	12	12	12	12
26	---	---	11	11	3.0	12	12	12	12	12	12	12
27	---	---	11	11	3.0	12	12	12	12	12	12	12
28	---	---	11	11	3.0	12	12	12	12	12	9.1	6.4
29	---	---	11	11	---	12	12	12	13	12	11	3.4
30	---	---	11	11	---	6.0	12	12	12	12	3.5	3.4
31	---	---	11	11	---	3.3	---	12	---	12	3.6	---
TOTAL	---	---	154	341	238.2	329.1	277.2	321.4	285.1	333.0	309.7	314.4
MEAN	---	---	11.0	11.0	8.51	10.6	9.24	10.4	9.50	10.7	9.99	10.5
MAX	---	---	11	11	11	12	12	13	13	12	12	12
MIN	---	---	11	11	3.0	3.3	3.3	3.1	3.3	4.5	3.5	3.4
AC-FT	---	---	305	676	472	653	550	637	565	661	614	624

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	MEAN	8.72	9.85	9.92	10.5	10.2	9.14	9.39	9.27	8.13	8.55	8.96	9.05
MAX	12.0	12.0	12.0	12.7	12.7	11.1	11.7	10.6	10.8	10.7	9.99	11.7	
(WY)	1991	1991	1994	1994	1994	1994	1988	1987	1994	1999	1999	1986	
MIN	5.73	7.21	7.85	8.49	8.33	7.60	6.79	7.60	4.96	5.70	7.45	4.85	
(WY)	1992	1987	1991	1992	1992	1992	1992	1993	1992	1992	1988	1991	

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1985 - 1999

ANNUAL MEAN		9.22	
HIGHEST ANNUAL MEAN		10.4	1994
LOWEST ANNUAL MEAN		7.29	1992
HIGHEST DAILY MEAN	13	May 5	13 Sep 28 1985
LOWEST DAILY MEAN	3.0	Feb 21	1.0 Sep 24 1991
ANNUAL SEVEN-DAY MINIMUM	3.0	Feb 21	1.5 Jun 13 1991
INSTANTANEOUS PEAK FLOW	20	Jun 29	20 Jun 29 1999
INSTANTANEOUS PEAK STAGE	1.39	Jun 29	1.39 Jun 29 1999
ANNUAL RUNOFF (AC-FT)		6680	
10 PERCENT EXCEEDS	12		12
50 PERCENT EXCEEDS	11		10
90 PERCENT EXCEEDS	3.6		3.2

VIRGIN RIVER BASIN

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

LOCATION.--Lat 37°27'37", long 115°11'37", in NE 1/4 NE 1/4 sec.1, T.6 S., R.60 E., Lincoln County, Hydrologic Unit 15010011, on left bank, downstream of culvert at US Highway 93 and .2 mi southeast of Ash Springs

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February to September 1999

GAGE.--Water-stage recorder. Elevation of gage is 3,600 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period February to September, 20 ft³/s, February 14, gage height, 4.56 ft; minimum daily, 10 ft³/s, August 10, 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	16	15	14	14	13	15	17
2	---	---	---	---	---	16	15	13	14	13	15	17
3	---	---	---	---	---	16	15	13	14	11	15	17
4	---	---	---	---	---	16	16	13	14	11	15	17
5	---	---	---	---	---	16	15	13	14	11	15	16
6	---	---	---	---	---	16	15	13	14	13	15	16
7	---	---	---	---	---	16	15	13	14	14	16	16
8	---	---	---	---	---	16	15	13	14	14	16	16
9	---	---	---	---	---	16	15	13	14	14	16	16
10	---	---	---	---	---	16	15	13	14	14	15	16
11	---	---	---	---	---	16	15	13	13	14	14	16
12	---	---	---	---	---	15	16	15	13	12	16	16
13	---	---	---	---	---	14	15	15	13	13	16	16
14	---	---	---	---	---	14	16	14	12	14	16	16
15	---	---	---	---	---	16	14	15	14	14	16	16
16	---	---	---	---	---	16	13	16	14	14	16	16
17	---	---	---	---	---	15	16	15	15	14	16	16
18	---	---	---	---	---	16	16	15	15	14	16	16
19	---	---	---	---	---	15	16	15	15	14	16	16
20	---	---	---	---	---	16	16	14	15	14	16	16
21	---	---	---	---	---	16	16	14	14	14	17	16
22	---	---	---	---	---	16	16	14	13	14	15	16
23	---	---	---	---	---	16	16	14	13	14	15	15
24	---	---	---	---	---	14	16	14	12	14	15	13
25	---	---	---	---	---	13	16	14	13	14	15	15
26	---	---	---	---	---	16	16	14	13	14	15	16
27	---	---	---	---	---	16	16	14	13	12	17	16
28	---	---	---	---	---	16	16	14	12	12	15	16
29	---	---	---	---	---	---	15	13	12	13	15	15
30	---	---	---	---	---	---	13	14	14	13	15	15
31	---	---	---	---	---	---	14	---	14	---	15	---
TOTAL	---	---	---	---	---	260	484	439	413	410	426	477
MEAN	---	---	---	---	---	15.3	15.6	14.6	13.3	13.7	15.8	15.9
MAX	---	---	---	---	---	16	16	16	15	14	15	17
MIN	---	---	---	---	---	13	13	13	12	12	11	13
AC-FT	---	---	---	---	---	516	960	871	819	813	845	946

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	17	Aug 21
LOWEST DAILY MEAN	11	Jul 3
ANNUAL SEVEN-DAY MINIMUM	12	Jun 29
INSTANTANEOUS PEAK FLOW	20	Feb 14
INSTANTANEOUS PEAK STAGE	4.56	Feb 14
10 PERCENT EXCEEDS	16	
50 PERCENT EXCEEDS	15	
90 PERCENT EXCEEDS	13	

VIRGIN RIVER BASIN

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

LOCATION.--Lat 36°43'18", long 114°42'53", in SE 1/4 NE 1/4 sec.16, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi downstream from L.D.S. mansion, and 6 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--No estimated daily discharges. Records good. Regulation for recreational purposes occurs 0.1 mi upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40 ft³/s, March 23, 1991, gage height, 1.90 ft; the gage was submerged by backwater and over bank flow from Muddy River on August 15, 1990, discharge and gage height unknown; minimum daily, 5.9 ft³/s, May 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s, October 27, gage height, 1.74 ft; minimum daily, 6.5 ft³/s, June 14, July 12, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.9	7.0	7.2	7.2	7.4	7.2	7.7	6.7	7.0	7.8	7.0
2	7.0	7.1	7.0	7.1	7.0	7.4	7.2	7.7	7.1	7.0	6.9	7.0
3	7.0	6.9	7.0	7.1	7.2	7.3	7.5	6.7	7.1	7.1	7.0	7.0
4	7.0	6.9	7.0	6.9	7.3	7.3	7.7	7.0	7.2	7.8	7.0	7.6
5	7.0	7.0	7.0	7.0	7.3	6.9	7.1	7.0	7.7	6.7	7.0	7.2
6	7.0	6.7	7.0	7.2	7.3	7.3	7.2	7.0	7.3	7.0	7.0	7.2
7	7.0	6.9	6.8	7.2	7.8	7.6	7.1	7.0	6.9	7.0	7.6	6.8
8	7.0	8.0	7.0	6.9	7.1	7.3	7.0	7.7	7.1	7.1	7.7	7.0
9	7.0	7.2	7.0	7.0	7.3	7.3	7.2	7.7	7.1	7.1	6.7	7.0
10	7.0	7.0	7.3	7.0	7.3	7.3	7.5	7.3	7.4	7.8	7.0	7.0
11	7.7	7.0	7.1	7.7	7.3	7.0	8.0	6.7	6.8	7.7	7.0	7.3
12	7.0	7.0	7.4	7.1	7.1	7.2	6.7	7.1	7.3	6.5	7.0	7.9
13	7.0	7.0	7.2	7.2	7.3	7.2	7.2	7.0	7.7	7.1	7.0	6.7
14	7.0	7.5	7.2	7.2	7.5	8.2	7.2	7.0	6.5	7.1	7.4	7.0
15	7.0	7.7	6.9	7.2	7.7	7.2	7.2	7.4	7.0	7.0	7.8	7.0
16	7.0	7.2	7.0	7.2	7.4	7.2	7.2	7.6	7.0	7.0	6.7	7.0
17	7.0	7.0	7.0	7.2	7.4	7.3	7.5	6.7	7.0	7.6	7.0	7.0
18	7.6	7.0	7.0	7.2	7.4	7.3	8.1	7.0	7.0	7.5	7.0	7.4
19	6.9	7.0	7.0	7.2	7.3	7.1	6.8	7.0	7.6	6.5	7.0	7.6
20	6.9	7.2	6.9	7.4	7.3	7.3	7.2	7.0	7.8	6.9	7.0	7.4
21	6.9	7.3	7.0	7.2	7.3	8.3	7.2	7.1	6.6	6.9	7.3	7.0
22	6.8	7.3	7.1	7.2	7.4	7.2	7.2	7.6	7.1	6.9	7.7	7.0
23	6.9	7.1	7.0	7.2	7.3	7.3	7.2	7.7	7.1	7.0	6.7	7.1
24	6.9	7.0	7.1	7.2	7.4	7.3	7.2	6.6	7.1	7.2	7.0	7.1
25	7.7	7.1	7.1	7.2	7.4	7.3	7.2	7.1	7.1	7.6	7.0	7.1
26	7.1	7.0	7.2	7.2	7.1	7.3	7.1	7.1	7.3	6.8	7.0	7.8
27	7.7	7.0	7.2	7.2	7.3	7.3	7.1	7.0	7.8	7.0	7.0	6.8
28	7.0	7.0	7.2	7.2	7.7	7.3	7.5	7.0	6.7	7.1	7.7	7.0
29	6.7	7.0	7.1	6.8	---	7.0	6.9	7.4	7.0	7.1	7.7	7.0
30	6.9	7.0	7.8	7.3	---	7.2	7.2	7.6	7.0	7.1	6.6	7.0
31	6.9	---	7.2	7.2	---	7.2	---	6.9	---	7.8	7.0	---
TOTAL	218.6	214.0	219.8	222.1	205.4	226.8	217.6	222.4	214.1	221.0	221.3	214.0
MEAN	7.05	7.13	7.09	7.16	7.34	7.32	7.25	7.17	7.14	7.13	7.14	7.13
MAX	7.7	8.0	7.8	7.7	7.8	8.3	8.1	7.7	7.8	7.8	7.8	7.9
MIN	6.7	6.7	6.8	6.8	7.0	6.9	6.7	6.6	6.5	6.5	6.6	6.7
AC-FT	434	424	436	441	407	450	432	441	425	438	439	424

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	7.35	7.34	7.34	7.43	7.47	7.35	7.32	7.25	7.24	7.15	7.16	7.28			
MAX	8.15	7.80	7.99	8.39	9.23	8.15	7.72	7.63	7.59	8.06	7.89	7.75			
(WY)	1986	1988	1992	1993	1993	1991	1991	1987	1988	1988	1988	1985			
MIN	6.97	7.04	6.70	6.93	6.85	6.71	6.96	6.69	6.64	6.43	6.58	6.57			
(WY)	1998	1998	1991	1991	1991	1997	1997	1993	1993	1993	1993	1993			

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1985 - 1999
ANNUAL TOTAL	2595.5	2617.1	
ANNUAL MEAN	7.11	7.17	7.31
HIGHEST ANNUAL MEAN			7.69
LOWEST ANNUAL MEAN			6.96
HIGHEST DAILY MEAN	8.1 Mar 29	8.3 Mar 21	10 Jan 25 1993
LOWEST DAILY MEAN	6.3 Aug 10	6.5 Jun 14	5.9 May 10 1993
ANNUAL SEVEN-DAY MINIMUM	6.7 Jul 13	7.0 Dec 1	6.2 May 5 1993
INSTANTANEOUS PEAK FLOW		29 Oct 27	40 Mar 23 1991
INSTANTANEOUS PEAK STAGE		1.74 Oct 27	1.90 Mar 23 1991
ANNUAL RUNOFF (AC-FT)	5150	5190	5290
10 PERCENT EXCEEDS	7.5	7.7	7.8
50 PERCENT EXCEEDS	7.0	7.1	7.3
90 PERCENT EXCEEDS	6.8	6.9	6.8

VIRGIN RIVER BASIN

09415910 PEDERSON SPRING NEAR MOAPA, NV

LOCATION.--Lat 36°42'35", long 114°42'54", in NE 1/4 NE 1/4 sec.21, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, at U.S. Fish and Wildlife Station, 0.2 mi north of Battleship Wash, 2.0 mi west of State Highway 168, and 5.8 mi northwest of Moapa.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--No estimated daily discharges. Records good. See schematic diagram of Colorado River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.34 ft³/s, August 30, 1992, gage height, 0.64 ft; minimum daily, 0.17 ft³/s, many days, several years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 0.22 ft³/s, many days; gage height, 0.54 ft; minimum daily, 0.18 ft³/s, February 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.21	.20	.20	.21	.22	.21	.20	.20	.21	.21	.21
2	.22	.21	.20	.20	.21	.22	.21	.21	.20	.21	.21	.21
3	.22	.21	.20	.20	.22	.22	.22	.21	.20	.21	.21	.21
4	.21	.21	.21	.20	.22	.21	.21	.21	.20	.21	.21	.21
5	.21	.21	.22	.20	.20	.20	.21	.20	.20	.21	.21	.20
6	.21	.21	.21	.20	.19	.20	.21	.21	.20	.21	.20	.20
7	.21	.21	.20	.20	.19	.20	.21	.21	.20	.21	.20	.20
8	.21	.21	.20	.20	.19	.20	.21	.21	.20	.20	.20	.20
9	.21	.20	.20	.20	.20	.21	.20	.21	.20	.20	.20	.20
10	.21	.20	.20	.20	.19	.22	.20	.20	.20	.20	.20	.20
11	.21	.20	.20	.20	.18	.21	.20	.20	.20	.20	.20	.20
12	.21	.20	.20	.20	.19	.21	.20	.21	.20	.20	.20	.20
13	.22	.20	.20	.20	.19	.21	.20	.21	.20	.20	.20	.20
14	.22	.20	.20	.20	.20	.21	.20	.21	.20	.21	.21	.20
15	.22	.20	.20	.20	.20	.21	.20	.21	.21	.21	.20	.21
16	.21	.20	.20	.20	.20	.21	.20	.21	.20	.20	.20	.21
17	.21	.21	.20	.20	.20	.21	.21	.21	.20	.20	.20	.20
18	.21	.21	.20	.20	.20	.21	.21	.21	.20	.20	.20	.20
19	.21	.20	.21	.20	.20	.22	.21	.21	.21	.20	.20	.20
20	.21	.20	.21	.20	.19	.21	.21	.21	.22	.20	.20	.20
21	.21	.21	.20	.20	.20	.20	.21	.21	.21	.20	.20	.20
22	.20	.21	.20	.20	.19	.21	.20	.21	.20	.20	.20	.20
23	.21	.21	.20	.20	.20	.21	.20	.20	.21	.20	.20	.20
24	.21	.21	.20	.20	.20	.21	.20	.20	.21	.21	.20	.20
25	.21	.20	.20	.21	.21	.21	.20	.20	.21	.21	.20	.20
26	.21	.21	.20	.21	.22	.21	.20	.20	.21	.21	.20	.20
27	.21	.21	.20	.21	.22	.21	.21	.20	.21	.20	.20	.20
28	.21	.21	.20	.21	.22	.21	.22	.20	.21	.20	.20	.19
29	.21	.20	.20	.21	---	.21	.20	.20	.21	.20	.20	.20
30	.21	.20	.20	.21	---	.22	.20	.20	.21	.21	.20	.20
31	.20	---	.20	.22	---	.22	---	.20	---	.21	.20	---
TOTAL	6.55	6.17	6.26	6.28	5.63	6.53	6.17	6.38	6.13	6.34	6.26	6.05
MEAN	.21	.21	.20	.20	.20	.21	.21	.21	.20	.20	.20	.20
MAX	.22	.21	.22	.22	.22	.22	.22	.21	.22	.21	.21	.21
MIN	.20	.20	.20	.20	.18	.20	.20	.20	.20	.20	.20	.19
AC-FT	13	12	12	12	11	13	12	13	12	13	12	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	MEAN	.21	.21	.20	.20	.20	.21	.22	.22	.22	.22	.21	.21
MAX	.23	.26	.24	.23	.24	.24	.24	.25	.25	.26	.26	.23	.22
(WY)	1994	1994	1994	1994	1993	1993	1993	1994	1993	1993	1993	1993	1993
MIN	.18	.18	.18	.18	.19	.18	.20	.20	.19	.19	.19	.19	.19
(WY)	1990	1997	1997	1992	1991	1991	1991	1991	1991	1996	1996	1996	1996

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1987 - 1999

	ANNUAL TOTAL	79.97	74.75	
ANNUAL MEAN	.22	.20	.21	
HIGHEST ANNUAL MEAN			.24	1993
LOWEST ANNUAL MEAN			.19	1989
HIGHEST DAILY MEAN	.29	Jun 27	.22	Oct 1
LOWEST DAILY MEAN	.20	Feb 5	.18	Feb 11
ANNUAL SEVEN-DAY MINIMUM	.20	Feb 5	.19	Feb 6
INSTANTANEOUS PEAK FLOW			.22	Oct 1
INSTANTANEOUS PEAK STAGE			.54	Oct 1
ANNUAL RUNOFF (AC-FT)	159		148	153
10 PERCENT EXCEEDS	.24		.21	.24
50 PERCENT EXCEEDS	.22		.20	.21
90 PERCENT EXCEEDS	.20		.20	.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 September 1994, June 1996 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13 ft³/s, May 15, 1990, gage height, 2.16 ft; minimum daily, 2.8 ft³/s, September 28, 29, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.6 ft³/s, April 22, gage height, 1.10 ft; minimum daily, 3.6 ft³/s, December 9, 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.9	3.7	3.8	3.8	3.9	3.8	4.0	3.9	3.8	3.9	3.8
2	3.9	3.9	3.7	3.8	3.8	3.9	3.8	4.0	3.9	3.8	3.9	3.9
3	3.9	3.9	3.7	3.8	3.8	3.9	3.8	4.0	3.8	3.8	3.9	3.9
4	3.9	3.9	3.7	3.8	3.8	3.9	3.9	3.9	3.8	3.8	3.9	3.8
5	3.9	3.9	3.7	3.8	3.8	3.9	3.8	3.9	3.8	3.8	3.9	3.8
6	3.9	3.9	3.7	3.8	3.8	3.9	3.8	4.0	3.9	3.9	3.9	3.9
7	3.9	3.9	3.7	3.8	3.8	3.9	3.9	4.0	3.9	3.9	3.9	3.8
8	3.9	3.9	3.7	3.8	3.9	3.9	3.8	4.0	3.9	3.9	3.9	3.8
9	3.9	3.9	3.6	3.8	3.9	3.9	3.8	4.0	3.9	3.8	3.9	3.8
10	3.9	3.8	3.6	3.8	3.8	3.9	3.8	3.9	3.9	3.8	3.9	3.9
11	3.9	3.9	3.7	3.8	3.8	3.9	3.8	3.9	3.9	3.8	3.9	3.8
12	3.9	3.9	3.7	3.8	3.8	3.9	3.8	3.9	3.8	3.9	3.9	3.8
13	3.9	3.9	3.7	3.8	3.9	3.9	3.8	3.9	3.8	3.9	3.9	3.8
14	3.9	3.9	3.8	3.8	3.9	3.9	3.9	3.9	3.8	3.9	3.9	3.8
15	3.9	3.9	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.9	3.8
16	3.9	3.9	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.8	3.8
17	3.9	3.9	3.8	3.8	3.9	3.9	4.0	3.9	3.9	3.8	3.9	3.8
18	3.9	3.9	3.8	3.8	3.9	3.9	4.0	3.9	3.9	3.8	3.9	3.8
19	3.9	3.9	3.8	3.8	3.9	3.9	4.0	3.9	3.9	3.8	3.9	3.8
20	3.9	3.9	3.7	3.8	3.9	3.9	4.0	3.9	3.8	3.8	3.9	3.8
21	3.9	3.9	3.7	3.8	3.9	3.9	4.0	3.9	3.9	3.8	3.9	3.8
22	3.9	3.9	3.7	3.8	3.9	3.9	4.0	3.9	3.9	3.8	3.8	3.8
23	3.9	3.9	3.7	3.8	3.9	3.9	3.9	3.9	3.9	3.8	3.9	3.8
24	3.9	3.9	3.7	3.9	3.9	3.9	4.0	3.9	3.8	3.9	3.9	3.8
25	3.9	3.9	3.7	3.9	3.9	3.9	4.0	3.9	3.9	3.9	3.9	3.8
26	3.9	3.9	3.7	3.8	3.9	3.9	4.0	3.8	3.9	3.8	3.9	3.8
27	3.9	3.9	3.7	3.8	3.9	3.8	4.0	3.8	3.8	3.8	3.9	3.8
28	3.9	3.9	3.7	3.8	3.9	3.8	4.0	3.8	3.8	3.8	3.9	3.8
29	3.9	3.8	3.7	3.8	---	3.8	4.0	3.8	3.9	3.8	3.9	3.8
30	3.9	3.7	3.8	3.8	---	3.9	4.0	3.9	3.9	3.8	3.8	3.8
31	3.9	---	3.8	3.8	---	3.8	---	3.8	---	3.9	3.8	---
TOTAL	120.9	116.6	115.1	118.0	108.2	120.5	117.2	121.1	116.0	118.7	120.5	114.4
MEAN	3.90	3.89	3.71	3.81	3.86	3.89	3.91	3.91	3.87	3.83	3.89	3.81
MAX	3.9	3.9	3.8	3.9	3.9	3.9	4.0	4.0	3.9	3.9	3.9	3.9
MIN	3.9	3.7	3.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
AC-FT	240	231	228	234	215	239	232	240	230	235	239	227

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

MEAN	3.63	3.69	3.69	3.69	3.69	3.68	3.68	3.69	3.70	3.64	3.62	3.61
MAX	3.97	4.10	4.04	4.10	4.05	4.11	4.11	4.08	4.00	3.89	3.89	3.93
(WY)	1994	1994	1994	1994	1994	1998	1998	1998	1998	1998	1990	1998
MIN	3.20	3.37	3.34	3.30	3.31	3.23	3.14	3.12	3.20	3.19	3.17	3.29
(WY)	1993	1993	1986	1988	1986	1992	1992	1992	1992	1992	1992	1993

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

ANNUAL TOTAL	1441.4	1407.2	
ANNUAL MEAN	3.95	3.86	3.67
HIGHEST ANNUAL MEAN			3.96
LOWEST ANNUAL MEAN			3.38
HIGHEST DAILY MEAN	4.4	Sep 11	4.4
LOWEST DAILY MEAN	3.6	Dec 9	2.8
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 4	3.0
INSTANTANEOUS PEAK FLOW		4.6	Apr 22
INSTANTANEOUS PEAK STAGE		1.10	Apr 22
ANNUAL RUNOFF (AC-FT)	2860	2790	2660
10 PERCENT EXCEEDS	4.1	3.9	4.0
50 PERCENT EXCEEDS	3.9	3.9	3.7
90 PERCENT EXCEEDS	3.8	3.8	3.3

VIRGIN RIVER BASIN

09416000 MUDDY RIVER NEAR MOAPA, NV

LOCATION.--Lat 36°42'40", long 114°41'40", in SE 1/4 SE 1/4 sec.15, T.14 S., R.65 E., Clark County, Hydrologic Unit 15010012, on left bank, 0.1 mi upstream from Battleship Wash, 0.8 mi downstream from Home Ranch, 5 mi northwest of Moapa, 9.5 mi upstream from Meadow Valley Wash, and 26 mi upstream from Lake Mead.

DRAINAGE AREA.--3,820 mi², approximately, of which about 40 mi² contributes directly to surface runoff.

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

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

GAGE.--Water-stage recorder and Cipolletti weir. Recording tipping bucket rain gage with 0.04 inch increment since December 1989. Elevation of gage is 1,710 ft above 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 good. Diversions for irrigation above station. Beginning October 1, 1976, records do not include part-time diversion about 100 ft upstream, for cooling of powerplants downstream. Normal flow originates from springs in reach 0.9 to 2.5 mi upstream from station. Flood peaks may be dampened by Arrow Canyon Dam. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,760 ft³/s, August 16, 1990, gage height, 13.33 ft, on basis of slope-area measurement of peak flow; minimum daily, 19 ft³/s, October 10, 1997. Maximum daily precipitation, 2.12 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s, and maximum (*):

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Jul 08	2230	*154	*1.92	Jul 14	0200	84	1.29

Maximum daily precipitation, 0.36 in. July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	36	34	37	38	30	33	42	39	34	35	31
2	36	31	34	37	41	28	33	42	40	33	34	30
3	35	32	33	37	36	28	36	40	40	34	35	30
4	35	31	33	38	38	29	39	40	42	35	35	29
5	34	33	33	39	39	27	33	40	43	33	35	30
6	35	31	36	40	38	28	32	41	44	33	33	28
7	35	31	37	38	40	28	33	42	42	33	32	28
8	36	33	37	37	39	28	36	42	41	50	33	28
9	36	32	35	36	37	29	43	42	39	97	32	28
10	36	32	36	34	35	29	36	41	39	88	33	29
11	37	30	35	35	34	30	35	41	38	43	34	29
12	36	29	35	37	33	29	36	43	39	32	34	30
13	36	34	34	38	31	28	36	42	40	36	35	29
14	36	38	35	37	30	29	36	42	37	52	35	28
15	36	36	34	37	30	28	35	42	37	33	36	28
16	35	34	36	37	32	27	35	41	36	33	34	28
17	35	33	36	36	30	27	34	39	36	32	33	28
18	36	34	36	37	31	26	35	38	36	34	33	28
19	35	33	35	36	31	31	34	37	36	33	33	30
20	36	33	35	36	30	33	34	41	37	33	34	30
21	36	33	34	36	32	33	32	42	34	33	34	31
22	34	34	34	40	29	31	32	41	35	33	35	31
23	30	34	34	42	29	30	32	42	35	32	34	32
24	30	35	33	39	30	29	31	41	36	32	35	32
25	35	34	34	37	31	29	31	42	36	34	35	30
26	36	35	35	40	31	29	33	42	36	32	34	32
27	37	36	36	41	32	28	32	42	38	33	33	32
28	36	34	37	40	34	27	32	42	36	33	32	29
29	34	34	38	37	---	26	32	42	35	34	32	27
30	31	34	38	37	---	29	33	40	34	33	31	26
31	29	---	37	39	---	32	---	38	---	34	30	---
TOTAL	1079	999	1089	1167	941	895	1024	1272	1136	1194	1043	881
MEAN	34.8	33.3	35.1	37.6	33.6	28.9	34.1	41.0	37.9	38.5	33.6	29.4
MAX	37	38	38	42	41	33	43	43	44	97	36	32
MIN	29	29	33	34	29	26	31	37	34	32	30	26
AC-FT	2140	1980	2160	2310	1870	1780	2030	2520	2250	2370	2070	1750
†	0.12	0.20	0.04	0.00	0.08	0.00	0.72	0.00	0.44	0.56	0.12	0.12

† Precipitation total, in inches

VIRGIN RIVER BASIN
09416000 MUDDY RIVER NEAR MOAPA, NV--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

MEAN	40.7	42.9	44.2	44.9	45.1	44.1	42.1	41.6	39.3	39.0	39.9	41.0
MAX	61.9	61.6	54.9	55.4	58.6	53.5	52.4	48.5	46.1	56.5	61.1	91.2
(WY)	1973	1961	1960	1960	1914	1958	1965	1958	1957	1984	1990	1967
MIN	25.5	28.2	28.4	30.5	30.3	28.9	31.3	35.1	32.4	30.5	27.3	28.9
(WY)	1997	1997	1997	1997	1997	1999	1989	1984	1984	1978	1995	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1913 - 1999	
ANNUAL TOTAL	12643		12720			
ANNUAL MEAN	34.6		34.8		42.0	
HIGHEST ANNUAL MEAN					49.6	
LOWEST ANNUAL MEAN					32.5	
HIGHEST DAILY MEAN	104	Sep 11	97	Jul 9	930	Aug 16 1990
LOWEST DAILY MEAN	27	Aug 28	26	Mar 18	19	Oct 10 1997
ANNUAL SEVEN-DAY MINIMUM	29	Aug 27	28	Mar 12	23	Oct 16 1995
INSTANTANEOUS PEAK FLOW			154	Jul 8	5760	Aug 16 1990
INSTANTANEOUS PEAK STAGE			1.92	Jul 8	13.33	Aug 16 1990
ANNUAL RUNOFF (AC-FT)	25080		25230		30420	
10 PERCENT EXCEEDS	38		41		49	
50 PERCENT EXCEEDS	34		34		42	
90 PERCENT EXCEEDS	30		29		33	

VIRGIN RIVER BASIN

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. Prior to October 29, 1998 at site 3.0 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,400 ft³/s, March 5, 1978, gage height, 9.41 ft, from floodmarks; maximum gage height, 12.58 ft, March 28, 1998; no flow July 26-28, 1966.

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

Discharge				Gage height				Discharge				Gage height			
Date		Time		(ft ³ /s)		(ft)		Date		Time		(ft ³ /s)		(ft)	
Aug 31		1715		39		4.84									
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999															
DAILY MEAN VALUES															
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	4.7	e7.9	8.2	10	17	13	4.0	8.5	1.4	.19	e.62	16			
2	4.7	e7.9	8.4	12	18	13	4.9	6.6	2.0	.12	e.62	4.0			
3	4.7	e7.9	8.4	13	18	13	7.1	7.6	2.0	.13	e.59	2.3			
4	4.7	e7.8	8.5	12	18	13	9.8	9.4	3.4	.19	e.62	1.5			
5	e4.7	e7.8	8.0	12	19	12	11	8.1	e3.0	.40	e.62	1.3			
6	e4.7	e7.8	7.2	12	18	12	9.9	6.8	e2.5	.32	e.62	1.1			
7	e4.7	e7.8	6.7	13	17	12	12	6.7	e2.5	.13	e.62	1.1			
8	e4.7	e7.8	6.4	13	18	12	11	6.2	2.2	.40	e.62	1.3			
9	e4.7	e7.8	6.4	e13	18	12	10	5.0	1.9	.74	e2.5	1.2			
10	e4.7	7.8	5.9	e13	19	11	8.4	4.5	1.8	.70	e.57	1.3			
11	e4.7	8.2	5.3	e13	15	11	8.4	4.2	1.6	.61	e.43	1.1			
12	e4.8	9.1	5.3	e14	15	12	7.9	4.3	1.6	.66	e.24	.97			
13	e4.8	8.4	5.5	e14	15	12	7.2	3.5	2.0	.75	e.42	1.0			
14	e4.8	8.4	6.5	15	15	12	6.5	2.8	1.7	.80	.70	1.2			
15	e4.8	8.7	7.6	16	16	12	6.6	2.8	.97	.89	.72	1.4			
16	e4.8	8.3	8.0	16	16	12	6.7	2.6	1.2	e1.0	.72	1.5			
17	e4.8	8.2	11	18	16	10	6.2	2.5	1.5	e1.2	.74	1.5			
18	e4.8	7.9	11	19	16	10	6.7	2.8	.82	e1.1	.72	1.8			
19	e4.9	7.7	11	19	15	9.7	7.1	2.7	.99	e.53	.72	1.8			
20	e4.9	7.7	12	19	14	9.0	7.7	2.6	.87	e.43	.76	1.4			
21	e4.9	7.5	9.4	20	15	9.3	9.5	2.7	.69	e.36	.88	1.4			
22	e4.9	7.5	6.5	17	14	9.2	7.8	2.2	.57	e.37	.78	1.7			
23	e4.9	7.5	5.3	15	14	9.2	6.1	1.9	.67	e.32	.72	2.0			
24	e4.9	7.8	4.9	17	14	8.9	17	2.0	.48	e.46	.72	1.9			
25	e4.9	7.9	4.8	16	13	8.4	26	1.9	.37	e.60	.72	1.9			
26	e5.0	8.1	4.8	19	13	8.9	19	2.1	.48	e.62	.68	1.8			
27	e5.0	8.2	5.0	19	13	8.1	15	2.4	.44	e.62	.61	1.6			
28	e6.0	8.5	5.2	19	13	7.6	13	2.1	.25	e.62	.55	1.5			
29	e8.0	8.9	5.5	17	---	7.1	9.2	1.7	.27	e.62	.50	1.7			
30	e7.9	8.7	6.1	17	---	6.4	9.1	1.3	.28	e.62	5.0	1.6			
31	e7.9	---	7.6	19	---	3.8	---	1.3	---	e.62	16	---			
TOTAL	159.4	241.5	222.4	481	442	319.6	290.8	121.8	40.45	17.12	41.33	61.87			
MEAN	5.14	8.05	7.17	15.5	15.8	10.3	9.69	3.93	1.35	.55	1.33	2.06			
MAX	8.0	9.1	12	20	19	13	26	9.4	3.4	1.2	16	16			
MIN	4.7	7.5	4.8	10	13	3.8	4.0	1.3	.25	.12	.24	.97			
AC-FT	316	479	441	954	877	634	577	242	80	34	82	123			

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

	MEAN	2.95	4.53	7.45	13.6	29.0	36.9	17.8	6.31	3.24	2.95	5.20	2.87
MAX	12.6	12.7	27.7	127	297	280	160	28.9	11.5	13.9	44.4	16.8	
(WY)	1973	1958	1952	1993	1993	1978	1969	1998	1956	1956	1955	1998	
MIN	.92	1.30	1.56	2.86	4.66	3.32	2.40	1.57	1.22	.55	.87	.62	
(WY)	1992	1992	1990	1992	1965	1977	1959	1990	1992	1999	1997	1996	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1951 - 1999

ANNUAL TOTAL	5958.4	2439.27	
ANNUAL MEAN	16.3	6.68	11.3
HIGHEST ANNUAL MEAN			61.5
LOWEST ANNUAL MEAN			2.42
HIGHEST DAILY MEAN	315	Feb 24	26
LOWEST DAILY MEAN	1.4	Aug 19	.12
ANNUAL SEVEN-DAY MINIMUM	1.4	Aug 18	.20
INSTANTANEOUS PEAK FLOW			39
INSTANTANEOUS PEAK STAGE			4.84
ANNUAL RUNOFF (AC-FT)	11820	4840	8160
10 PERCENT EXCEEDS	44	15	17
50 PERCENT EXCEEDS	7.5	5.5	3.6
90 PERCENT EXCEEDS	2.2	.62	1.4

e Estimated

VIRGIN RIVER BASIN

09419000 MUDDY RIVER NEAR GLENDALE, NV

LOCATION.--Lat 36°38'35", long 114°32'20", in NE 1/4 SW 1/4 sec.7, T.15 S., R.67 E., Clark County, Hydrologic Unit 15010012, on left bank, at the Narrows, 150 ft downstream from Weiser Wash, 2 mi southeast of Glendale, 2.4 mi downstream from Meadow Valley Wash, 4.5 mi northwest of Logandale, and 16 mi upstream from Lake Mead.

DRAINAGE AREA.--6,780 mi², approximately, of which about 3,000 mi² contributes directly to surface runoff.

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

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

GAGE.--Water-stage recorder. Elevation of gage is 1,460 ft above 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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft³/s, August 10, 1981, gage height, 27.10 ft; minimum, 15 ft³/s, October 10, 1991.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge greater than base discharge of 210 ft³/s and maximum (*):

		Date	Time	Discharge (ft ³ /s)	Gage height (ft)			Date	Time	Discharge (ft ³ /s)	Gage height (ft)		
		July 10	1330	*61	*5.28								
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999													
DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	e42	41	37	42	e40	36	35	38	39	36	33	31	
2	42	40	36	42	e43	34	37	41	40	36	32	30	
3	41	40	37	41	e41	34	37	39	42	34	29	31	
4	44	39	37	42	e42	34	40	38	43	34	33	31	
5	46	39	38	e42	e42	33	39	38	43	35	33	32	
6	45	42	39	e42	e41	34	37	38	45	35	32	32	
7	43	41	40	e40	40	34	37	38	43	35	28	30	
8	42	40	40	e39	40	34	37	39	43	34	29	31	
9	41	41	39	e39	39	34	40	41	42	48	29	32	
10	42	38	39	e38	39	34	39	40	41	59	30	32	
11	42	36	40	e39	38	34	38	40	41	54	32	33	
12	43	36	40	e39	38	34	38	40	40	34	31	33	
13	42	36	40	e40	37	34	38	41	39	34	31	34	
14	42	39	40	e39	36	35	37	40	39	43	31	32	
15	42	45	40	e39	37	35	36	37	38	36	33	33	
16	42	42	40	e39	37	33	37	37	38	34	32	34	
17	43	41	41	e39	37	34	37	38	38	32	29	35	
18	44	40	44	e40	36	33	37	39	38	32	30	33	
19	43	38	41	e40	37	34	37	38	39	31	30	31	
20	43	38	40	e40	36	35	36	39	40	31	30	32	
21	43	40	41	e40	34	37	36	39	39	31	30	34	
22	41	38	41	e42	36	35	35	38	38	30	30	33	
23	40	38	41	e43	35	35	35	41	37	31	31	33	
24	38	38	41	e42	35	34	36	40	37	33	31	33	
25	39	37	42	e41	36	34	34	40	37	34	29	32	
26	42	40	42	e42	36	34	34	41	38	32	30	33	
27	43	38	42	e42	34	32	35	40	40	31	30	32	
28	43	37	43	e42	35	32	34	40	39	32	31	32	
29	44	38	42	e41	---	33	34	39	38	32	32	31	
30	43	38	43	e40	---	33	35	39	37	31	31	31	
31	41	---	42	e41	---	35	---	42	---	32	29	---	
TOTAL	1311	1174	1248	1257	1057	1056	1097	1218	1191	1096	951	966	
MEAN	42.3	39.1	40.3	40.5	37.8	34.1	36.6	39.3	39.7	35.4	30.7	32.2	
MAX	46	45	44	43	43	37	40	42	45	59	33	35	
MIN	38	36	36	38	34	32	34	37	37	30	28	30	
AC-FT	2600	2330	2480	2490	2100	2090	2180	2420	2360	2170	1890	1920	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1999, BY WATER YEAR (WY)

	MEAN	37.9	45.4	45.5	48.2	55.7	54.5	43.5	38.3	34.0	33.4	39.8	42.1
MAX	61.0	209	58.0	98.0	230	237	100	48.0	50.6	51.5	136	225	
(WY)	1973	1961	1961	1969	1993	1983	1969	1991	1965	1961	1981	1998	
MIN	23.8	29.8	30.6	34.2	32.0	29.5	27.4	28.2	23.6	23.3	24.2	24.6	
(WY)	1997	1996	1997	1998	1997	1989	1989	1997	1997	1990	1996	1996	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1950 - 1999		
ANNUAL TOTAL	20590			13622					
ANNUAL MEAN	56.4			37.3			43.1		
HIGHEST ANNUAL MEAN							60.7		
LOWEST ANNUAL MEAN							30.4		
HIGHEST DAILY MEAN	2940	Sep 12		59	Jul 10		2990	Nov 6	1960
LOWEST DAILY MEAN	23	Aug 6		28	Aug 7		15	Oct 10	1997
ANNUAL SEVEN-DAY MINIMUM	24	Aug 22		30	Aug 7		18	Jul 23	1990
INSTANTANEOUS PEAK FLOW				61	Jul 10		16400	Aug 10	1981
INSTANTANEOUS PEAK STAGE				5.28	Jul 10		27.10	Aug 10	1981
ANNUAL RUNOFF (AC-FT)	40840			27020			31250		
10 PERCENT EXCEEDS	43			42			51		
50 PERCENT EXCEEDS	37			38			39		
90 PERCENT EXCEEDS	29			31			29		

e Estimated

VIRGIN RIVER BASIN

09419507 MUDDY RIVER AT LEWIS AVENUE AT OVERTON, NV

LOCATION.--Lat 36°32'07", long 114°25'42", in NE 1/4 NW 1/4 sec. 19, T.16 S., R.68 E., Clark County, Hydrologic Unit 15010012, on left wing wall of upstream side of arched, concrete/corrugated-metal culvert on Lewis Avenue, .25 mi east of State Route 169, .05 mi upstream of Overton Wash, and 1.5 mi upstream from Lake Mead.

DRAINAGE AREA.--6,940 mi², of which approximately 3,240 mi² contributes directly to surface runoff.

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

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

REMARKS.--Records good except for estimated daily discharges, which are poor. Discharge at gage is predominantly irrigation return flow. An irrigation diversion approximately 7 mi upstream of the gage diverts the entire base flow of the Muddy River. At discharges greater than 350 ft³/s, flow can bypass the main channel immediately above the gage. See schematic diagram of Colorado River Basin.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1300 ft³/s, September 12, 1998, gage height 9.88 ft; minimum daily 4.5 ft³/s, July 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s, July 11, gage height, 4.81 ft; minimum daily, 4.5 ft³/s, July 4.

REVISIONS.--The mean daily discharge for November 17, 1997, February 26, 27, 1998 have been revised to 23 ft³/s, 346 ft³/s, and 240 ft³/s respectively, superseding figures published in the 1998 annual report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	23	39	6.3	8.4	13	9.2	18	18	11	11	6.7
2	30	16	37	6.8	12	13	11	26	14	6.5	12	9.0
3	24	12	40	6.3	13	10	11	18	16	8.6	12	9.5
4	25	15	38	6.4	14	9.8	15	21	16	4.5	11	11
5	27	17	41	5.7	8.8	10	19	23	21	6.7	13	9.5
6	28	19	44	5.8	7.9	11	21	21	22	8.9	13	12
7	30	20	43	6.1	10	11	19	23	20	8.2	8.7	7.6
8	28	23	37	5.6	13	12	16	24	18	11	7.2	13
9	24	22	9.7	6.6	9.5	13	22	22	21	20	7.0	9.5
10	19	18	10	7.1	9.1	12	20	23	17	39	7.7	9.0
11	19	16	8.6	9.2	9.4	14	17	21	9.7	44	11	16
12	20	14	9.3	6.2	e12	12	16	19	11	22	11	14
13	23	16	13	10	e12	12	19	18	13	17	13	16
14	22	18	14	9.1	e12	15	14	15	13	16	8.0	11
15	21	8.6	14	8.5	e12	13	10	17	12	33	7.5	15
16	25	8.2	13	7.2	e12	11	18	16	12	23	9.0	19
17	30	7.4	8.5	7.4	e12	9.8	13	16	6.0	18	7.6	14
18	28	11	11	11	e12	16	13	18	e14	8.5	7.3	16
19	24	11	9.0	12	11	14	15	9.5	e14	8.3	10	11
20	22	9.9	8.7	12	13	13	10	11	e14	9.2	9.1	13
21	26	11	14	9.5	17	16	9.7	12	e14	11	7.6	13
22	26	15	22	8.5	16	15	11	11	e14	11	9.0	14
23	23	15	6.6	8.7	16	10	12	17	11	8.8	7.7	13
24	27	9.3	7.7	8.5	17	7.2	15	16	8.2	9.5	7.0	17
25	24	6.6	7.3	10	14	8.2	18	15	9.4	8.6	9.6	17
26	22	9.0	8.0	12	11	9.5	19	12	7.1	11	10	18
27	20	11	7.0	9.4	18	13	16	14	13	11	12	17
28	16	13	7.9	11	13	14	15	8.4	14	11	11	12
29	16	38	7.0	13	---	13	14	11	9.5	10	11	13
30	17	39	6.5	8.6	---	15	18	13	11	11	10	14
31	20	---	6.3	8.8	---	12	---	15	---	9.3	7.4	---
TOTAL	735	472.0	548.1	263.3	345.1	377.5	455.9	523.9	412.9	435.6	298.4	389.8
MEAN	23.7	15.7	17.7	8.49	12.3	12.2	15.2	16.9	13.8	14.1	9.63	13.0
MAX	30	39	44	13	18	16	22	26	22	44	13	19
MIN	16	6.6	6.3	5.6	7.9	7.2	9.2	8.4	6.0	4.5	7.0	6.7
AC-FT	1460	936	1090	522	685	749	904	1040	819	864	592	773

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
MEAN	18.4	15.6	14.2	8.18	16.3	16.6	17.8	15.3	11.0	17.6	8.64	34.6
MAX	23.7	15.7	17.7	8.49	20.2	21.0	20.4	16.9	13.8	21.2	9.63	56.2
(WY)	1999	1999	1999	1999	1998	1998	1998	1999	1999	1998	1999	1998
MIN	13.1	15.6	10.8	7.87	12.3	12.2	15.2	13.7	8.33	14.1	7.65	13.0
(WY)	1998	1998	1998	1998	1999	1999	1999	1998	1998	1999	1998	1999

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL	7440.1	5257.5	
ANNUAL MEAN	20.4	14.4	16.2
HIGHEST ANNUAL MEAN			17.9
LOWEST ANNUAL MEAN			14.4
HIGHEST DAILY MEAN	630	Sep 12	630
LOWEST DAILY MEAN	4.6	Jan 8	4.5
ANNUAL SEVEN-DAY MINIMUM	6.0	Feb 2	6.1
INSTANTANEOUS PEAK FLOW			51
INSTANTANEOUS PEAK STAGE			4.81
ANNUAL RUNOFF (AC-FT)	14760	10430	11700
10 PERCENT EXCEEDS	31	23	25
50 PERCENT EXCEEDS	12	13	12
90 PERCENT EXCEEDS	6.7	7.6	7.2

e Estimated

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 poor. Minor temporary regulation for recreation upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26 ft³/s, August 16, 1990, from rating curve extended above 2.2 ft³/s, on basis of velocity-area study; minimum daily, 0.90 ft³/s, August 25, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2.4 ft³/s, June 6, gage height, 0.84 ft; minimum daily, 1.5 ft³/s, several days in May-July.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.5	1.7	e1.7
2	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.7	e1.7
3	e1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.6	e1.7	e1.7
4	e1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.6	e1.7	e1.7
5	e1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.5	1.6	e1.7	e1.7
6	e1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
7	e1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
8	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
9	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
10	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
11	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
12	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.7	e1.7	e1.7
13	1.8	1.8	1.8	1.7	1.6	1.7	1.7	1.6	1.6	1.7	e1.7	e1.7
14	1.8	1.8	1.8	1.7	e1.7	1.7	1.7	1.6	1.6	1.6	e1.7	e1.7
15	1.8	1.8	1.8	1.7	e1.7	1.7	1.7	1.6	1.6	1.7	e1.7	e1.7
16	1.8	1.8	2.0	1.6	e1.7	1.7	1.7	1.6	1.6	1.7	e1.7	e1.7
17	1.8	1.8	2.1	1.6	e1.7	1.7	1.7	1.6	1.6	1.7	e1.7	e1.7
18	1.8	1.8	1.8	1.7	e1.7	1.7	1.7	1.6	1.6	1.7	e1.7	1.7
19	1.8	1.8	1.8	1.6	1.7	1.7	1.7	1.5	1.5	1.7	e1.7	1.7
20	1.8	1.8	1.8	1.6	1.7	1.7	1.7	1.5	1.6	1.7	e1.7	1.7
21	1.8	1.8	1.7	1.6	1.7	1.7	1.7	1.6	1.6	1.7	e1.7	1.7
22	1.8	1.8	1.6	1.7	1.7	1.7	1.8	1.6	1.6	1.7	e1.7	1.7
23	1.8	1.8	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.7	e1.7	1.7
24	1.8	1.8	1.6	1.7	1.7	1.7	1.7	1.5	1.6	1.7	e1.7	1.7
25	1.8	1.8	1.6	1.7	1.7	1.7	1.7	1.5	1.6	1.7	e1.7	1.7
26	1.8	1.8	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.7	e1.7	1.7
27	1.8	1.8	1.6	1.7	1.7	e1.7	1.7	1.6	1.7	1.7	e1.7	1.7
28	1.8	1.8	1.6	1.7	1.7	e1.7	1.6	1.6	1.6	1.7	e1.7	1.6
29	1.8	1.8	1.7	1.7	---	1.7	1.6	1.6	1.6	1.7	e1.7	1.7
30	1.8	1.8	1.7	1.7	---	1.7	1.6	1.6	1.5	1.7	e1.7	1.7
31	1.8	---	1.7	1.7	---	1.7	---	1.6	---	1.7	e1.7	---
TOTAL	55.8	54.0	54.5	52.2	46.9	52.7	50.8	49.2	47.6	51.4	52.7	50.9
MEAN	1.80	1.80	1.76	1.68	1.68	1.70	1.69	1.59	1.59	1.66	1.70	1.70
MAX	1.8	1.8	2.1	1.7	1.7	1.7	1.8	1.6	1.7	1.7	1.7	1.7
MIN	1.8	1.8	1.6	1.6	1.6	1.7	1.6	1.5	1.5	1.5	1.7	1.6
AC-FT	111	107	108	104	93	105	101	98	94	102	105	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1.67	1.67	1.65	1.63	1.64	1.60	1.58	1.59	1.65	1.65	1.67	1.66			
MAX	1.80	1.92	1.89	2.16	2.28	1.94	1.80	1.80	1.89	1.88	2.02	1.91			
(WY)	1999	1991	1993	1993	1993	1993	1998	1995	1993	1993	1993	1993			
MIN	1.54	1.55	1.43	1.27	1.23	1.25	1.22	1.37	1.46	1.38	1.35	1.46			
(WY)	1996	1997	1997	1986	1992	1987	1987	1992	1992	1992	1992	1989			

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

	1998	1999	1985-1999
ANNUAL TOTAL	656.8	618.7	
ANNUAL MEAN	1.80	1.70	1.64
HIGHEST ANNUAL MEAN			1.88
LOWEST ANNUAL MEAN			1.47
HIGHEST DAILY MEAN	2.1 Sep 21	2.1 Dec 17	2.8 Aug 16 1990
LOWEST DAILY MEAN	1.6 Dec 22	1.5 May 19	.90 Aug 25 1992
ANNUAL SEVEN-DAY MINIMUM	1.6 Dec 22	1.5 May 19	1.1 Feb 25 1986
INSTANTANEOUS PEAK FLOW		2.4 Jun 6	26 Aug 16 1990
INSTANTANEOUS PEAK STAGE		.84 Jun 6	3.31 Aug 16 1990
ANNUAL RUNOFF (AC-FT)	1300	1230	1190
10 PERCENT EXCEEDS	1.8	1.8	1.8
50 PERCENT EXCEEDS	1.8	1.7	1.6
90 PERCENT EXCEEDS	1.8	1.6	1.4

e Estimated

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, at National Fish and Wildlife Headquarters complex, 4 mi east of U. S. Highway 95, and 20 mi northwest of Las Vegas.

DRAINAGE AREA--Indeterminate.

PERIOD OF RECORD.--July 1985 to September 1994, January 1997 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.10 ft³/s, April 2, 1989, gage height, 1.44 ft; minimum daily, 0.24 ft³/s, many days some years.

EXTREMES FOR CURRENT YEAR.--Maximum instantaneous and daily discharge, 0.38 ft³/s, many days, gage height, 1.08 ft, March 5; maximum gage height, 1.15 ft³/s, February 10, 11 (backwater from debris on weir); minimum daily, 0.34 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.36	.34	.35	.35	.36	.35	.35	.36	.36	.35	.35	.34
2	e.36	.34	.35	.35	.36	.36	.35	.36	.36	.35	.35	.34
3	e.36	.34	.35	.35	.36	.37	.35	.36	.36	.35	.35	.35
4	e.36	.34	.36	.35	.36	.38	.35	.36	.36	.35	.35	.35
5	e.35	.34	.35	.35	.36	.36	.35	.35	.36	.35	.35	.35
6	.35	.34	.35	.35	.36	.35	.35	.36	.36	.35	.35	.34
7	.35	.34	.35	.35	.37	.35	.35	.36	.36	.35	.35	.35
8	.35	.34	.35	.35	.38	.35	.35	.36	.36	.35	.35	.35
9	.35	.34	.35	.35	.38	.35	.36	.36	.36	.35	.35	.34
10	.35	.34	.35	.35	.37	.35	.36	.36	.36	.35	.35	.34
11	.35	.34	.35	.35	.36	.35	.36	.36	.36	.35	.35	.34
12	.35	.34	.35	.35	.36	.35	.36	.36	.37	.35	.35	.34
13	.35	.34	.35	.35	.36	.35	.36	.36	.38	.35	.35	.34
14	.35	.34	.35	.35	.36	.35	.36	.36	.38	.35	.35	.34
15	.35	.35	.35	.35	.37	.35	.37	.36	.38	.35	.35	.34
16	.36	.35	.35	.35	.38	.35	.38	.36	.38	.35	.35	.34
17	.35	.35	.35	.35	.38	.35	.36	.35	.38	.35	.35	.34
18	.35	.35	.35	.35	.38	.35	.35	.35	.38	.35	.35	.35
19	.35	.35	.35	.36	.38	.35	.35	.36	.38	.35	.35	.35
20	.35	.35	.36	.36	.37	.35	.35	.37	.38	.35	.36	.35
21	.35	.35	.37	.36	.35	.35	.35	.38	.38	.35	.37	.34
22	.35	.35	.38	.36	.35	.35	.35	.38	.38	.35	.36	.35
23	.35	.35	.38	.36	.35	.37	.35	.38	.38	.35	.36	.35
24	.35	.35	.38	.36	.35	.38	.35	.38	.38	.35	.34	.35
25	.34	.35	.38	.36	.35	.36	.35	.36	.38	.35	.34	.35
26	.34	.35	.38	.36	.35	.35	.35	.36	.38	.35	.34	.35
27	.34	.36	.38	.36	.35	.35	.35	.37	.38	.35	.34	.35
28	.34	.36	.38	.36	.35	.35	.35	.36	.35	.35	.34	.35
29	.34	.35	.38	.36	---	.35	.35	.36	.35	.35	.34	.35
30	.34	.35	.37	.36	---	.35	.35	.36	.35	.35	.34	.35
31	.34	---	.36	.36	---	.35	---	.36	---	.35	.34	---
TOTAL	10.83	10.38	11.16	10.98	10.16	10.98	10.62	11.23	11.08	10.85	10.82	10.37
MEAN	.35	.35	.36	.35	.36	.35	.35	.36	.37	.35	.35	.35
MAX	.36	.36	.38	.36	.38	.38	.38	.38	.38	.35	.37	.35
MIN	.34	.34	.35	.35	.35	.35	.35	.35	.35	.35	.34	.34
AC-FT	21	21	22	22	20	22	21	22	22	22	21	21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1985	.28	.35	1999	.25	1987
1986	.29	.35	1999	.25	1987
1987	.29	.36	1999	.25	1987
1988	.29	.35	1999	.25	1987
1989	.29	.36	1999	.25	1987
1990	.29	.35	1999	.25	1987
1991	.28	.35	1999	.25	1987
1992	.28	.36	1999	.24	1987
1993	.28	.37	1999	.24	1987
1994	.28	.37	1999	.24	1987
1995	.28	.35	1999	.24	1987
1996	.28	.35	1999	.24	1987
1997	.29	.35	1999	.25	1987
1998	.29	.36	1999	.25	1987
1999	.29	.36	1999	.25	1987

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

ANNUAL TOTAL	120.22	129.46	
ANNUAL MEAN	.33	.35	.28
HIGHEST ANNUAL MEAN			.35
LOWEST ANNUAL MEAN			.25
HIGHEST DAILY MEAN	.38 Dec 22	.38 Dec 22	.38 Dec 22 1998
LOWEST DAILY MEAN	.31 Jan 1	.34 Oct 25	.24 Jul 14 1985
ANNUAL SEVEN-DAY MINIMUM	.31 Jan 1	.34 Oct 25	.24 May 17 1987
INSTANTANEOUS PEAK FLOW		.38 Feb 9	1.1 Apr 2 1989
INSTANTANEOUS PEAK STAGE		1.15 Feb 10	1.44 Apr 2 1989
ANNUAL RUNOFF (AC-FT)	238	257	205
10 PERCENT EXCEEDS	.36	.37	.34
50 PERCENT EXCEEDS	.32	.35	.27
90 PERCENT EXCEEDS	.31	.34	.25

e Estimated

LAS VEGAS VALLEY

09419649 NORTH LAS VEGAS DETENTION BASIN OUTLET AT CRAIG ROAD NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°14'58", long 115°06'40", in SE 1/4 NW 1/4 sec.01, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on left bank of outlet structure on Craig Road, and 3.5 mi northeast of North Las Vegas.

DRAINAGE AREA.--92.31 mi².

PERIOD OF RECORD.--April 1992 to September 1999 (discontinued). Records prior to October 1, 1993 not published but available in files of the U.S. Geological Survey. Operation transferred to Clark County Flood Control District October 1999.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,915 ft above sea level (NAVD88), from levels.

REMARKS.--Records poor. Flow below 30 ft³/s not recorded. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 551 ft³/s, July 8, 1999, gage height, 11.97 ft; no flow most of time. Maximum daily precipitation, 1.28 inches, August 14, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 551 ft³/s, July 8, 1999, gage height, 11.97 ft; no flow most days. Maximum daily precipitation, 1.16 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	e.00	e.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.93	.00	.00
9	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e10	.00	.00
10	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	8.9	.00
11	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.50	.00	.00
13	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	e.50	.00	.00
15	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.75	.00
22	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.45	.59
23	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	e.00	e.00	e.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	e.00	e.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	e.50	e.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	e.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	104.00	10.10	0.59
MEAN	.000	.000	.000	.000	.000	.000	.017	.000	.000	3.35	.33	.020
MAX	.00	.00	.00	.00	.00	.00	.50	.00	.00	.93	8.9	.59
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	1.0	.00	.00	206	20	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	.000	.009	.000	.001	.004	.000	.002	.000	.000	.42	.26	.26
MAX	.000	.063	.000	.004	.025	.000	.017	.000	.000	3.35	1.32	1.21
(WY)	1993	1997	1993	1997	1998	1993	1999	1992	1992	1999	1998	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1993	1993	1993	1993	1993	1993	1993	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1992 - 1999
ANNUAL TOTAL	77.90	115.19	
ANNUAL MEAN	.21	.32	.092
HIGHEST ANNUAL MEAN			.32
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	31 Sep 12	93 Jul 8	93 Jul 8 1999
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Apr 29 1992
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Apr 29 1992
INSTANTANEOUS PEAK FLOW		551 Jul 8	551 Jul 8 1999
INSTANTANEOUS PEAK STAGE		11.97 Jul 8	11.97 Jul 8 1999
ANNUAL RUNOFF (AC-FT)	155	228	67
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

LAS VEGAS VALLEY

094196497 GOWAN DETENTION BASIN OUTLET NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°14'35", long 115°09'24", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.04, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Camino Al Norte Road, 0.3 mi northeast of Craig Road, and 3.8 mi north of North Las Vegas.

DRAINAGE AREA.--113.06 mi².

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

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,060 ft above sea level, from topographic map. Prior to October 1, 1995 at datum 9.0 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 644 ft³/s, August 9, 1997, gage height, 10.33 ft, maximum gage height, 11.04 ft, February 20, 1998; no flow most of time. Maximum daily precipitation, 1.32 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 608 ft³/s, July 8, gage height, 11.55 ft; no flow most days. Maximum daily precipitation, 1.32 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.05	.00	.00	.00	.00	.00	.19	.00	.00	.00	.00
2	.00	e.00	.04	.00	.00	.00	.00	.05	8.1	.00	.00	.00
3	.00	e.00	.05	.00	.00	.00	.00	.03	.07	.00	.00	.00
4	.00	e.00	.06	.00	.00	.00	.00	.00	1.4	.00	.00	.00
5	.00	e.00	.04	.00	.51	.00	.00	.00	.07	.00	.00	.00
6	.00	.00	.12	.08	.06	.00	.00	.00	.05	.00	.00	.00
7	.00	.00	.05	.16	.05	.00	.00	.00	.04	.00	.00	.00
8	.02	.00	.04	.05	e.00	.00	.00	.00	.01	163	.00	.00
9	.00	.35	.00	.01	e.00	.00	.00	.00	.00	290	.00	.00
10	.00	.05	.00	.00	.00	.00	.00	.00	.00	7.1	4.6	.00
11	.00	e.00	.00	.00	.00	.00	.00	.00	.17	.08	.05	.00
12	.00	e.00	.00	.00	.00	.00	.00	.02	.04	43	.00	.02
13	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.14	.00	.21
14	.00	e.00	.00	.00	.00	.00	.00	.00	.00	20	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.1	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	14	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.67
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.06
20	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00	.04
21	.00	.00	.00	.00	.00	.00	.34	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	2.3	2.2
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.39
24	.00	.00	.00	.00	.00	.00	13	.12	.00	.00	.02	.05
25	.44	.00	.00	.50	.00	.00	.44	.03	.00	.00	.00	.00
26	2.0	.00	.00	.13	.00	.00	.44	.04	.00	.00	.00	.00
27	.05	.00	.00	.05	.00	.14	.03	.00	.00	.00	.00	.00
28	.03	.00	.00	.05	.00	.09	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.02	8.7	.00	.00	.00	.00	.00
30	16	.00	.00	.00	---	.00	86	.00	.00	.00	.00	.00
31	.19	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	18.75	0.45	0.40	1.03	0.62	0.25	108.97	0.51	9.95	545.47	7.00	3.64
MEAN	.60	.015	.013	.033	.022	.008	3.63	.016	.33	17.6	.23	.12
MAX	.16	.35	.12	.50	.51	.14	.86	.19	8.1	290	4.6	2.2
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	37	.9	.8	2.0	1.2	.5	216	1.0	20	1080	14	7.2
†	0.16	0.00	0.08	0.00	0.04	0.32	0.52	0.00	0.08	1.68	0.20	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	MEAN	.15	.44	.51	.93	2.51	1.19	1.25	.72	.37	3.10	.59	1.78
MAX	.60	2.89	1.79	5.47	16.1	7.21	5.69	4.44	1.09	17.6	2.41	7.79	
(WY)	1999	1997	1995	1995	1998	1998	1997	1997	1997	1999	1997	1998	
MIN	.000	.000	.000	.000	.022	.000	.000	.000	.000	.000	.012	.000	
(WY)	1992	1993	1994	1994	1999	1993	1992	1993	1993	1993	1993	1993	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

ANNUAL TOTAL	1022.15	697.04	
ANNUAL MEAN	2.80	1.91	1.27
HIGHEST ANNUAL MEAN			2.79
LOWEST ANNUAL MEAN			.18
HIGHEST DAILY MEAN	141	Feb 20	290 Jul 9 1999
LOWEST DAILY MEAN	.00	Jan 1	.00 Oct 2 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00 Oct 9 1991
INSTANTANEOUS PEAK FLOW			608 Jul 8 1997
INSTANTANEOUS PEAK STAGE			11.55 Jul 8 1999
ANNUAL RUNOFF (AC-FT)	2030	1380	917
10 PERCENT EXCEEDS	2.1	.10	.51
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

094196557 LAS VEGAS CREEK AT MEADOWS DETENTION BASIN AT LAS VEGAS, NV

LOCATION.--Lat 36°10'30", long 115°10'50", in SE 1/4 SW 1/4 sec.29, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank upstream of box culvert, 0.1 mi. downstream of Las Vegas Valley Water District reservoir, and 0.4 mi east of intersection of U.S. Highway 95 and Rancho Boulevard.

DRAINAGE AREA.--6.57 mi².

PERIOD OF RECORD.--March 1989 to current year. Records prior to October 1993 not published but are available in files of U.S. Geological Survey, Las Vegas, NV.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,100 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195 ft³/s (revised), July 15, 1996, gage height, 11.44 ft; minimum daily, 0.02 ft³/s, many days November 1997 to February 1998. Maximum daily precipitation, 1.72 inches, February 8, 1993

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 141 ft³/s, July 8, gage height, 11.22 ft; minimum daily, 0.09 ft³/s April 8. Maximum daily precipitation, 1.44 inches, July 8

REVISIONS.--The maximum discharge for period of record water year 1996-1998 has been revised to 195 ft³/s, July 15, 1996, gage height 11.44 ft; superseding figures published in the reports for 1996, 1997, and 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.17	.65	.55	.49	.17	.12	.11	.20	2.4	.65	2.1
2	.19	.15	.65	.48	.52	.17	.46	.10	2.9	1.6	.65	2.3
3	.19	.15	.65	.52	.57	.16	.11	.10	.15	.27	.65	1.6
4	.24	.15	.66	.55	.79	.19	.15	.10	1.2	.26	.45	.15
5	.17	.15	.62	.52	1.2	.18	.24	.10	.20	.28	.33	.15
6	.51	.15	.82	.56	.41	.16	.10	.14	.20	2.2	.23	.15
7	.17	.15	.55	.61	.33	.16	.10	.11	.20	1.7	.17	.15
8	.19	.39	.59	.64	.37	.16	.09	.13	.20	52	.12	.15
9	.21	1.5	.63	.58	.28	.15	.10	.13	.38	73	.10	.15
10	.23	.66	.65	.64	.37	.23	.11	.11	.20	11	5.0	.18
11	.21	.66	.62	.65	.27	.12	.10	.11	.24	.65	.31	.31
12	.23	.65	.65	.67	.21	.10	.18	.13	.20	9.6	.28	.85
13	.18	.65	.65	.56	.25	.10	.12	.14	.20	.64	.20	.29
14	.18	.65	.66	.48	.25	.12	.11	.16	.20	6.0	.18	.28
15	.16	.65	.67	.54	.24	.11	.13	.21	.21	4.4	.15	.27
16	.17	.65	.65	.49	.21	.11	.17	.19	.20	4.1	.15	.28
17	.15	.56	.65	.57	.25	.12	.15	.20	.25	1.5	.15	.25
18	.16	.48	.65	.56	.17	.14	.11	.19	.25	1.4	.15	1.7
19	.17	.45	.66	.54	.17	.17	.12	.21	.20	2.0	.15	.31
20	.17	.49	.60	.55	.15	.10	.13	.24	.20	1.7	.15	.30
21	.15	.53	.63	.67	.15	.10	.18	.26	.20	2.0	.15	.29
22	.39	.48	.63	.68	.16	.13	.13	.26	.19	3.3	.53	1.8
23	.41	.46	.58	.85	.16	.19	.13	.25	.27	1.4	.15	.31
24	.10	.63	.63	.90	.23	.18	1.6	.40	.19	.84	.36	.31
25	.15	.65	.55	1.3	.22	.14	.12	.24	.20	.75	.15	.31
26	.10	.65	.52	.63	.19	.14	.11	.23	.26	.87	.20	.30
27	.11	.65	.55	.60	.19	.19	.12	.49	.27	1.5	.17	.28
28	.11	.68	.54	.58	.17	.15	.11	.24	.27	1.6	.15	.22
29	.75	.65	.61	.56	---	.19	3.9	.27	.28	1.0	.15	.22
30	6.6	.63	.60	.47	---	.13	13	.21	1.9	.65	.15	.22
31	.16	---	.53	.43	---	.13	---	.16	---	.65	.93	---
TOTAL	13.07	15.52	19.30	18.93	8.97	4.59	22.30	5.92	12.01	191.26	13.31	16.18
MEAN	.42	.52	.62	.61	.32	.15	.74	.19	.40	6.17	.43	.54
MAX	6.6	1.5	.82	1.3	1.2	.23	.13	.49	2.9	73	5.0	2.3
MIN	.10	.15	.52	.43	.15	.10	.09	.10	.15	.26	.10	.15
AC-FT	26	31	38	38	18	9.1	44	12	24	379	26	32
†	0.20	0.04	0.04	0.00	0.04	0.00	0.60	0.00	0.12	1.92	0.12	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	.48	.57	.56	.79	.90	.98	.70	.98	.94	1.40	1.01	.97
MAX	1.35	1.43	2.01	4.46	3.50	2.15	1.79	3.16	2.63	6.17	2.97	3.43
(WY)	1994	1997	1995	1995	1998	1992	1996	1997	1997	1999	1997	1997
MIN	.080	.12	.16	.10	.10	.15	.20	.19	.17	.14	.30	.36
(WY)	1996	1998	1998	1994	1996	1999	1992	1999	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1989 - 1999
ANNUAL TOTAL	326.66	341.36	
ANNUAL MEAN	.89	.94	.86
HIGHEST ANNUAL MEAN			1.41
LOWEST ANNUAL MEAN			.38
HIGHEST DAILY MEAN	25 Feb 20	73 Jul 9	73 Jul 9 1999
LOWEST DAILY MEAN	.02 Jan 29	.09 Apr 8	.02 Nov 28 1997
ANNUAL SEVEN-DAY MINIMUM	.02 Jan 27	.11 May 1	.02 Nov 28 1997
INSTANTANEOUS PEAK FLOW		141 Jul 8	195 Jul 15 1996
INSTANTANEOUS PEAK STAGE		11.22 Jul 8	11.76 Jun 10 1990
ANNUAL RUNOFF (AC-FT)	648	677	625
10 PERCENT EXCEEDS	1.2	1.1	1.5
50 PERCENT EXCEEDS	.17	.25	.32
90 PERCENT EXCEEDS	.06	.12	.10

† Precipitation total, in inches

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, on south side of golf cart bridge, 1,200 ft south at Sahara Avenue and 0.5 mi east of Nellis Boulevard.

DRAINAGE AREA.--1,146 mi².

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

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.01 inch increment. Elevation of gage is 1,715 ft above sea level, from topographic map. Prior to October 14, 1994, at site 1,200 ft upstream at same datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s, July 8, gage height, 13.69 ft; no flow many days some years. Maximum daily precipitation, 1.56 inches, June 10, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,100 ft³/s, July 8, gage height, 13.69 ft; minimum daily, 1.6 ft³/s, November 3. Maximum daily precipitation, 1.16 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.8	2.9	2.5	2.3	5.0	4.0	4.1	8.4	4.4	3.6	22
2	3.4	1.7	2.9	2.8	2.2	5.2	4.7	2.9	25	4.8	3.8	20
3	3.0	1.6	2.6	2.9	2.2	5.9	4.6	2.9	4.7	4.6	4.0	21
4	2.7	1.8	2.6	3.0	2.3	6.3	4.5	3.1	6.9	4.4	4.3	8.2
5	2.8	1.8	2.4	3.1	3.9	7.5	4.8	4.0	4.0	4.7	4.4	8.0
6	3.0	2.0	11	3.3	2.5	7.6	5.6	3.4	3.2	4.6	4.5	7.9
7	2.8	2.1	2.0	3.6	2.3	8.3	6.0	3.6	2.9	4.8	4.6	6.8
8	2.3	2.2	1.8	3.8	2.3	9.0	5.8	3.3	3.7	948	4.7	4.9
9	3.0	2.9	1.7	3.8	2.6	9.4	6.5	2.8	3.5	380	4.9	4.2
10	2.4	2.7	1.7	4.0	2.6	11	6.0	3.3	6.5	14	122	3.6
11	2.1	2.8	1.7	4.2	2.9	13	5.9	3.2	7.4	6.8	4.5	3.1
12	2.1	2.8	1.8	4.4	2.9	14	7.4	3.6	6.3	164	4.3	7.1
13	2.3	3.1	1.8	4.5	3.0	14	9.6	3.2	6.0	6.0	4.2	5.7
14	2.4	3.4	1.7	4.3	3.3	12	8.1	3.2	6.1	135	4.2	3.0
15	2.5	3.2	1.7	4.7	3.4	12	7.6	3.6	5.3	59	4.3	3.0
16	2.5	3.2	1.7	4.7	3.6	11	7.6	2.8	5.0	23	4.5	e2.7
17	2.2	3.4	1.8	5.1	3.8	8.3	8.4	3.2	5.2	5.1	e4.6	2.3
18	2.2	3.7	1.8	5.1	4.0	6.5	7.6	3.3	6.0	5.0	e4.9	5.9
19	2.1	4.6	1.7	4.7	4.3	7.6	8.6	3.2	5.7	4.8	5.1	3.1
20	2.0	5.0	1.8	4.3	4.4	6.2	8.9	3.9	5.2	4.7	5.6	2.9
21	2.2	6.0	1.7	4.1	4.6	4.7	8.4	4.4	5.9	4.6	6.1	3.1
22	2.1	6.0	1.7	4.0	4.9	4.8	7.9	5.0	7.5	4.4	12	20
23	2.2	6.5	1.8	3.8	4.7	4.7	7.7	5.8	8.1	4.0	6.4	11
24	2.5	6.8	1.8	3.4	4.6	4.2	30	6.3	6.9	3.8	6.2	3.2
25	3.5	7.6	1.8	3.2	4.6	4.0	6.9	6.1	5.1	3.6	8.4	2.9
26	10	9.2	1.9	3.3	4.6	4.1	3.9	5.2	4.1	3.4	8.4	2.7
27	3.1	7.4	2.0	2.7	4.6	4.0	4.3	5.4	4.1	3.4	11	2.8
28	2.1	21	2.1	2.8	4.6	3.8	4.4	8.8	4.0	3.2	8.2	2.4
29	2.3	8.2	2.1	2.6	---	3.5	14	9.0	4.2	3.1	9.1	2.2
30	81	4.1	2.2	2.4	---	4.1	182	9.1	4.4	3.2	11	2.1
31	3.3	---	2.4	2.3	---	4.2	---	8.8	---	3.3	13	---
TOTAL	165.6	138.6	70.6	113.4	98.0	225.9	401.7	140.5	181.3	1827.7	306.8	197.8
MEAN	5.34	4.62	2.28	3.66	3.50	7.29	13.4	4.53	6.04	59.0	9.90	6.59
MAX	81	21	11	5.1	4.9	14	182	9.1	25	948	122	22
MIN	2.0	1.6	1.7	2.3	2.2	3.5	3.9	2.8	2.9	3.1	3.6	2.1
AC-FT	328	275	140	225	194	448	797	279	360	3630	609	392
†	0.32	0.00	0.12	0.00	0.08	0.00	0.48	0.00	0.16	2.28	0.05	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	MEAN	3.00	3.37	3.83	8.74	12.8	8.46	3.39	3.30	3.63	8.05	5.92	7.99
MAX	13.0	9.11	14.5	50.0	61.0	44.0	13.4	6.16	12.9	59.0	15.6	41.9	
(WY)	1993	1997	1993	1995	1998	1992	1999	1989	1990	1999	1997	1997	
MIN	.73	.18	.016	.000	.77	.94	.85	1.33	.75	.74	1.01	.96	
(WY)	1990	1996	1996	1991	1996	1990	1996	1990	1989	1989	1992	1992	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1988 - 1999
ANNUAL TOTAL	4708.78	3867.9	
ANNUAL MEAN	12.9	10.6	6.17
HIGHEST ANNUAL MEAN			12.4
LOWEST ANNUAL MEAN			1.44
HIGHEST DAILY MEAN	491	948	948
LOWEST DAILY MEAN	.51	1.6	.00
ANNUAL SEVEN-DAY MINIMUM	.56	1.7	.00
INSTANTANEOUS PEAK FLOW		8100	8100
INSTANTANEOUS PEAK STAGE		13.69	16.27
ANNUAL RUNOFF (AC-FT)	9340	7670	4470
10 PERCENT EXCEEDS	11	9.1	5.7
50 PERCENT EXCEEDS	3.0	4.2	1.5
90 PERCENT EXCEEDS	1.4	2.1	.63

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419659 SLOAN CHANNEL TRIBUTARY AT LAS VEGAS BOULEVARD NEAR NORTH LAS VEGAS, NV

LOCATION.--Lat 36°13'46", long 115°04'45", in SE 1/4 NW 1/4 sec.08, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on downstream side of concrete box culvert on Las Vegas Boulevard, 0.25 mi east of Lamb Boulevard, and 3.2 mi northeast of North Las Vegas.

DRAINAGE AREA.--17.51 mi².

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

REVISED RECORDS.--WDR NV-98-1: 1994(M).

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,855 ft above sea level, from topographic map.

REMARKS.--Records poor. See schematic diagram of Colorado River Basin. Records prior to 1994 water year were not published but are available in files of the U.S. Geological Survey, in Las Vegas, NV.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 920 ft³/s, (revised) September 11, 1998, gage height, 15.34 ft; no flow most days, most years. Maximum daily precipitation, 1.92 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 440 ft³/s, July 8, gage height, 12.89 ft; no flow most days. Maximum daily precipitation, 0.60 inches, July 8, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	.31	.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	2.4	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.2	.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	.28	.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
30	.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	32.48	2.40	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.05	.077	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	31	2.4	.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	64	4.8	.00
†	0.28	0.12	0.04	0.00	0.08	0.00	0.44	0.00	0.08	1.00	0.16	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.009	.001	.023	.022	.15	.17	.000	.016	.013	.11	.12	.21
MAX	.097	.013	.23	.14	.80	1.30	.000	.19	.11	1.05	.67	2.22
(WY)	1993	1997	1992	1995	1998	1992	1988	1989	1990	1999	1997	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1989	1988	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1988 - 1999

	1998	1999	1988-1999
ANNUAL TOTAL	95.12	34.88	
ANNUAL MEAN	.26	.096	.076
HIGHEST ANNUAL MEAN			.26
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	65	31	65
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		440	920
INSTANTANEOUS PEAK STAGE		12.89	15.34
ANNUAL RUNOFF (AC-FT)	189	69	55
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

† Precipitation total, in inches

LAS VEGAS VALLEY

09419665 SLOAN CHANNEL AT CHARLESTON BOULEVARD NEAR LAS VEGAS, NV

LOCATION (REVISED).--Lat 36°09'35", long 115°02'40", in SE 1/4 SE 1/4 sec.33, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, on upstream side of box culvert on Charleston Boulevard, and 1.0 mi east of Nellis Boulevard.

DRAINAGE AREA.--144 mi².

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

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above sea level, from topographic map.

REMARKS.--Records fair. Flows below 50 ft³/s not recorded by gage. Estimated daily discharges during periods of base flow, are only an indication of some small amount of flow at site. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,230 ft³/s, September 11, 1998, gage height, 11.41 ft; no flow at times most years. Maximum daily precipitation, 1.72 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 441 ft³/s, July 8, gage height, 10.70 ft; no flow many days. Maximum daily precipitation, 0.84 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.40	e.30	e.25	e.25	e.08	.00	e.01	.00	e.01	e.08	.00	e.02
2	e.40	e.30	e.25	e.25	e.07	.00	e.01	.00	e.01	e.08	.00	e.03
3	e.40	e.30	e.25	e.25	e.06	.00	.00	.00	e.03	e.08	.00	e.03
4	e.40	e.30	e.25	e.25	e.05	.00	.00	.00	e.03	e.08	.00	e.03
5	e.40	e.30	e.25	e.25	e.04	.00	.00	.00	e.03	e.08	.00	e.03
6	e.40	e.30	e.25	e.25	e.03	.00	.00	.00	e.03	e.08	.00	e.03
7	e.40	e.30	e.25	e.25	e.02	.00	.00	.00	e.03	e.08	.00	e.03
8	e.40	e.30	e.25	e.25	e.01	.00	.00	.00	e.05	33	.00	e.03
9	e.40	e.30	e.25	e.25	.00	.00	.00	.00	e.05	e.10	.00	e.03
10	e.40	e.30	e.25	e.25	.00	.00	.00	.00	e.05	e.10	.00	e.03
11	e.40	e.30	e.25	e.26	.00	.00	.00	.00	e.05	e.10	.00	e.03
12	e.40	e.30	e.25	e.27	.00	e.01	.00	.00	e.05	e.10	.00	e.03
13	e.40	e.30	e.25	e.27	.00	e.01	.00	.00	e.06	e.10	.00	e.03
14	e.40	e.30	e.25	e.26	.00	e.01	.00	.00	e.06	6.6	.00	e.03
15	e.40	e.30	e.25	e.25	.00	e.01	.00	.00	e.06	e.10	.00	e.03
16	e.40	e.30	e.25	e.24	.00	e.01	.00	.00	e.06	e.08	.00	e.03
17	e.40	e.30	e.25	e.23	.00	e.01	.00	.00	e.06	e.05	.00	e.03
18	e.40	e.30	e.25	e.22	.00	e.01	.00	.00	e.06	e.03	.00	e.03
19	e.40	e.30	e.25	e.21	.00	e.01	.00	.00	e.06	e.02	.00	e.03
20	e.40	e.30	e.25	e.20	.00	e.01	.00	.00	e.08	e.01	e.01	e.03
21	e.40	e.30	e.25	e.19	.00	e.01	.00	.00	e.08	e.01	e.01	e.03
22	e.40	e.25	e.25	e.18	.00	e.01	.00	.00	e.08	.00	e.01	e.03
23	e.40	e.25	e.25	e.17	.00	e.01	.00	.00	e.08	.00	e.02	e.03
24	e.40	e.25	e.25	e.16	.00	e.01	.00	.00	e.08	.00	e.02	e.03
25	e.40	e.25	e.25	e.15	.00	e.01	.00	.00	e.08	.00	e.02	e.03
26	e.40	e.25	e.25	e.14	.00	e.01	.00	.00	e.08	.00	e.02	e.03
27	e.40	e.25	e.25	e.13	.00	e.01	.00	.00	e.08	.00	e.02	e.03
28	e.30	e.25	e.25	e.12	.00	e.01	.00	.00	e.08	.00	e.02	e.03
29	e.30	e.25	e.25	e.11	---	e.01	.00	e.01	e.08	.00	e.02	e.03
30	e.30	e.25	e.25	e.10	---	e.01	.00	e.01	e.08	.00	e.02	e.03
31	e.30	---	e.25	e.09	---	e.01	---	e.01	---	.00	e.02	---
TOTAL	12.00	8.55	7.75	6.45	0.36	0.20	0.02	0.03	1.72	40.96	0.21	0.89
MEAN	.39	.28	.25	.21	.013	.006	.001	.001	.057	1.32	.007	.030
MAX	.40	.30	.25	.27	.08	.01	.01	.01	.08	33	.02	.03
MIN	.30	.25	.25	.09	.00	.00	.00	.00	.01	.00	.00	.02
AC-FT	24	17	15	13	.7	.4	.04	.06	3.4	81	.4	1.8
†	0.24	0.12	0.12	0.04	0.08	0.00	0.40	0.00	0.16	1.88	0.04	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.26	.14	.056	.26	1.00	.28	.002	.030	.17	.48	.49	.69
MAX	2.39	1.15	.25	1.97	5.30	2.73	.020	.22	1.43	2.43	2.58	7.59
(WY)	1993	1992	1999	1992	1998	1992	1998	1989	1990	1998	1997	1998
MIN	.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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1988 - 1999
ANNUAL TOTAL	558.05	79.14	
ANNUAL MEAN	1.53	.22	.33
HIGHEST ANNUAL MEAN			1.46
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	208 Sep 11	33 Jul 8	208 Sep 11 1998
LOWEST DAILY MEAN	.00 Jul 30	.00 Feb 9	.00 Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 30	.00 Feb 9	.00 Mar 1 1988
INSTANTANEOUS PEAK FLOW		441 Jul 8	1230 Sep 11 1998
INSTANTANEOUS PEAK STAGE		10.70 Jul 8	11.72 Aug 9 1997
ANNUAL RUNOFF (AC-FT)	1110	157	241
10 PERCENT EXCEEDS	.40	.30	.02
50 PERCENT EXCEEDS	.02	.03	.00
90 PERCENT EXCEEDS	.02	.00	.00

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

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

LOCATION.--Lat 36°06'07", long 115°14'00", in SE 1/4 SW 1/4 sec.23, T.21 S., R.60 E., Clark County, Hydrologic Unit 15010015, on upstream side of concrete box culvert on Torrey Pines Drive, and 0.25 mi north of Tropicana Avenue.

DRAINAGE AREA.--93.6 mi².

PERIOD OF RECORD.--March 1988 to September 1999 (discontinued). Records prior to 1994 water year not published but are available in files of U.S. Geological Survey, Las Vegas, NV.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,335 ft above sea level, from topographic map.

REMARKS.--Records poor. Flows below 7.0 ft³/s not recorded prior to August 15, 1997. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,920 ft³/s, July 16, 1990, gage height, 21.41 ft; no flow most of time. Maximum daily precipitation, 2.60 in., July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft³/s, July 8, gage height, 13.16 ft; no flow most days. Maximum daily precipitation, 2.60 in., July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	.17
2	.00	.00	.00	.00	.00	.00	.00	.00	.60	.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	1.4	.00	.00	.00
5	.00	.00	.00	.00	.03	.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	.22	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	114	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6	.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	.55	.00	.00	.00	.00	1.1
13	.00	.00	.00	.00	.00	.00	.20	.00	.00	.09	.00	.23
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.2	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.23	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	.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	.36
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	.71
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
24	.00	.00	.00	.00	.00	.00	3.1	.00	.00	.00	.07	.00
25	.00	.00	.00	.00	.00	.00	.06	.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	1.7	.00	.00	.00	.00	.00
30	.27	.00	.00	.00	---	.00	5.2	.00	.09	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.27	0.00	0.00	0.00	0.03	0.00	10.81	0.00	2.09	123.41	0.07	2.59
MEAN	.009	.000	.000	.000	.001	.000	.36	.000	.070	3.98	.002	.086
MAX	.27	.00	.00	.00	.03	.00	5.2	.00	1.4	114	.07	1.1
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.5	.00	.00	.00	.06	.00	21	.00	4.1	245	.1	5.1
†	0.20	0.00	0.00	0.00	0.08	0.00	0.76	0.00	0.12	3.20	0.00	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

MEAN	.038	.11	.15	.28	.47	.41	.079	.11	.41	1.28	.15	.45
MAX	.37	1.06	.79	1.99	2.22	2.93	.36	.85	4.73	10.1	.99	3.09
(WY)	1993	1992	1992	1995	1992	1992	1989	1990	1990	1990	1995	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1994	1995	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1988 - 1999

ANNUAL TOTAL	66.06	139.27	
ANNUAL MEAN	.18	.38	.35
HIGHEST ANNUAL MEAN			1.39
LOWEST ANNUAL MEAN			.003
HIGHEST DAILY MEAN	7.6 Jul 20	114 Jul 8	165 Jul 16 1990
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Feb 29 1988
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Feb 29 1988
INSTANTANEOUS PEAK FLOW		1000 Jul 8	3920 Jul 16 1990
INSTANTANEOUS PEAK STAGE		13.16 Jul 8	21.41 Jul 16 1990
ANNUAL RUNOFF (AC-FT)	131	276	253
10 PERCENT EXCEEDS	.00	.00	.02
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

† Precipitation total, in inches

LAS VEGAS VALLEY

09419674 FLAMINGO WASH AT DECATUR BOULEVARD AT LAS VEGAS, NV

LOCATION.--Lat 36°06'10", long 115°12'25", in SE 1/4 SE 1/4 sec.24, T.21 S., R.60 E., Clark County, Hydrologic Unit 15010015, on upstream middle concrete box culvert on Decatur Boulevard, and 0.1 mi north of Tropicana Avenue.

DRAINAGE AREA.--100.57 mi².

PERIOD OF RECORD.--August 1983 to August 1983, October 1990, operated as miscellaneous and partial record site, October 1992 to current year. Records prior to February 1992 not published but are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,230 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,760 ft³/s, August 10, 1983, gage height, 21.76 ft; no flow most of time. Maximum daily precipitation, 1.52 inches, February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3000 ft³/s, July 8, gage height, 16.00 ft; no flow most days. Maximum daily precipitation, 1.40 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	4.4	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.37	.00	.00	.00	3.7	.00	.00	.00
5	.00	.00	.00	.00	3.4	.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	.45	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	331	.00	.00
9	.00	.05	.00	.00	.00	.00	.00	.00	.00	12	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	3.3	.00	.00	.00	.00	11
13	.00	.00	.00	.00	.00	.00	2.9	.00	.00	.10	.00	.38
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	19	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.7	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.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	2.1
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	2.3
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	11	.00	.00	.00	.90	.00
25	.00	.00	.00	.86	.00	.00	1.5	.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	.56	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	7.1	.00	.00	.00	.00	.00
30	8.7	.39	.00	.00	---	.00	38	.00	.00	.00	.00	.00
31	.10	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	8.80	1.00	0.00	0.86	3.77	0.00	63.80	0.00	8.10	366.25	3.50	15.78
MEAN	.28	.033	.000	.028	.13	.000	2.13	.000	.27	11.8	.11	.53
MAX	8.7	.56	.00	.86	3.4	.00	38	.00	4.4	331	2.6	11
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.17	2.0	.00	1.7	7.5	.00	127	.00	16	726	6.9	31
†	0.12	0.04	0.00	0.00	0.08	0.00	1.36	0.00	0.08	2.76	0.28	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	MEAN	.15	.31	.38	1.00	1.96	1.14	.28	.036	.080	1.87	1.22
MAX	.74	2.02	1.61	5.33	7.74	7.90	2.13	.23	.27	11.8	1.97	6.49
(WY)	1993	1997	1995	1995	1993	1992	1999	1992	1999	1999	1997	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1994	1993	1994	1994	1995	1993	1992	1993	1993	1992	1992	1992

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1992 - 1999

ANNUAL TOTAL	318.95	471.86	
ANNUAL MEAN	.87	1.29	.69
HIGHEST ANNUAL MEAN			1.29 1999
LOWEST ANNUAL MEAN			.070 1996
HIGHEST DAILY MEAN	36 Jul 20	331 Jul 8	331 Jul 8 1999
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Feb 1 1992
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Feb 20 1992
INSTANTANEOUS PEAK FLOW		3000 Jul 8	4760 Aug 10 1983
INSTANTANEOUS PEAK STAGE		16.00 Jul 8	21.76 Aug 10 1983
ANNUAL RUNOFF (AC-FT)	633	936	498
10 PERCENT EXCEEDS	1.1	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

† Precipitation total, in inches

LAS VEGAS VALLEY

094196775 FLAMINGO WASH AT EASTERN AVENUE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°07'23", long 115°07'06", in NE 1/4 SE 1/4 sec.14, T.21 S., R.61 E., Clark County, Hydrologic Unit 15010015, on upstream side of concrete box culvert on Eastern Avenue, and 0.5 mi north of Flamingo Avenue.

DRAINAGE AREA.--108 mi², approximately.

PERIOD OF RECORD.--November 1989 to September 1999 (discontinued). Records prior to 1994 water year not published but are available in files of the U.S. Geological Survey, Las Vegas, NV.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1905 ft above sea level, from topographic map. Equivalent record previously published as Flamingo Wash at Maryland Parkway at Las Vegas (09419677) October 1969 to September 1978. Gage re-installed after culvert construction June 1992 at datum 10.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Gage operation transferred to Clark County Regional Flood Control District, October 1999. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,800 ft³/s, July 8, 1999, gage height, 18.34 ft; no flow some days, some years. Maximum daily precipitation, 2.48 inches, July 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,800 ft³/s, July 8, gage height, 18.34 ft; minimum daily, 1.1 ft³/s, June 16, 24, 30. Maximum daily precipitation, 2.48 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	1.6	1.9	1.7	1.7	1.5	1.8	2.3	1.6	1.9	4.0	4.1
2	5.0	1.6	2.0	1.6	1.6	1.6	3.6	2.3	3.7	2.0	4.0	4.0
3	3.3	1.5	2.0	1.7	1.6	1.6	4.8	2.3	1.5	2.2	3.5	3.6
4	2.8	1.4	1.8	1.7	1.6	1.7	1.5	2.4	3.0	2.4	3.1	3.4
5	2.6	1.5	1.6	1.8	1.7	1.7	1.6	2.2	1.7	2.7	2.9	3.3
6	2.6	1.3	3.8	2.0	1.6	1.6	1.6	2.4	1.7	4.5	2.9	2.9
7	2.6	1.3	1.6	1.9	1.6	1.6	1.5	2.4	1.6	3.1	2.9	2.9
8	2.6	1.5	1.6	2.1	1.6	1.8	1.2	2.3	1.5	e1000	2.9	2.7
9	2.6	2.0	1.6	1.8	1.6	1.7	1.4	2.1	1.5	e14	2.9	2.6
10	2.5	1.6	1.6	1.7	1.6	1.6	1.6	2.4	1.8	3.5	24	2.5
11	2.5	1.6	1.6	1.8	1.5	1.9	1.7	2.2	1.5	e3.4	2.3	2.2
12	2.4	1.8	1.6	1.7	1.3	2.1	3.8	2.1	1.4	e3.2	2.8	40
13	2.2	1.8	1.6	1.8	1.3	2.4	2.9	2.1	1.5	e3.0	2.1	6.5
14	2.2	1.9	1.6	1.9	1.3	2.5	2.6	2.2	1.5	120	1.8	2.9
15	2.2	1.9	1.6	1.7	1.3	2.6	2.6	2.2	1.3	34	1.7	3.3
16	2.1	1.9	1.6	1.6	1.3	2.9	2.7	2.3	1.1	16	2.8	3.8
17	2.2	2.1	1.6	1.6	1.3	2.9	2.9	2.4	1.3	2.2	2.8	3.5
18	2.3	2.1	1.6	1.6	1.4	3.0	3.3	2.1	1.4	1.9	3.4	18
19	2.6	2.0	1.6	1.6	1.3	3.1	6.6	2.0	1.3	2.2	4.3	2.6
20	2.6	2.0	1.8	1.6	1.3	3.5	3.7	1.8	1.5	2.5	4.1	2.7
21	2.5	2.0	1.9	1.6	1.3	3.8	3.5	1.7	1.4	3.1	3.4	3.0
22	2.4	1.9	1.8	1.6	1.3	3.6	3.8	1.6	1.3	e3.0	3.4	30
23	2.5	2.1	1.9	1.6	1.4	4.2	3.4	1.8	1.2	e3.0	3.8	4.8
24	2.2	2.0	1.6	1.6	1.4	4.1	22	1.9	1.1	e3.0	8.5	3.8
25	1.9	2.0	1.6	1.6	1.5	3.6	5.1	1.6	1.1	e4.0	e4.0	3.6
26	2.0	2.0	1.6	1.5	1.4	3.0	3.5	1.6	1.1	e4.0	e4.0	3.7
27	1.9	2.0	1.6	1.6	1.3	6.1	3.7	1.6	1.1	e5.0	e4.0	3.6
28	1.8	11	1.7	1.5	1.3	8.1	3.5	1.5	1.1	e5.0	e4.0	3.9
29	1.7	2.0	1.8	1.4	---	2.2	15	1.4	1.1	e5.0	e4.0	4.3
30	16	1.9	1.7	1.6	---	1.9	115	1.4	1.1	5.4	e4.0	3.2
31	1.6	---	1.6	1.6	---	1.9	---	1.4	---	5.3	3.8	---
TOTAL	93.8	63.3	54.5	52.1	40.4	85.8	231.9	62.0	45.0	1270.5	128.1	181.4
MEAN	3.03	2.11	1.76	1.68	1.44	2.77	7.73	2.00	1.50	41.0	4.13	6.05
MAX	16	11	3.8	2.1	1.7	8.1	115	2.4	3.7	1000	24	40
MIN	1.6	1.3	1.6	1.4	1.3	1.5	1.2	1.4	1.1	1.9	1.7	2.2
AC-FT	186	126	108	103	80	170	460	123	89	2520	254	360
†	0.32	0.12	0.12	0.00	0.04	0.00	0.72	0.00	0.08	3.92	0.68	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2.40	2.68	4.17	6.05	9.60	5.14	2.72	2.38	2.83	8.17
MAX	5.94	5.78	12.2	30.4	50.5	21.3	7.73	4.68	10.6	41.0
(WY)	1993	1997	1995	1995	1993	1992	1999	1996	1990	1999
MIN	1.00	.93	.96	1.21	1.44	1.38	.90	1.05	.000	.000
(WY)	1990	1991	1991	1992	1999	1990	1991	1990	1995	1995

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1990 - 1999
ANNUAL TOTAL	2351.28	2308.8	
ANNUAL MEAN	6.44	6.33	4.62
HIGHEST ANNUAL MEAN			8.44
LOWEST ANNUAL MEAN			2.18
HIGHEST DAILY MEAN	268 Jul 20	1000 Jul 8	1000 Jul 8 1999
LOWEST DAILY MEAN	.85 May 26	1.1 Jun 16	.00 Nov 15 1992
ANNUAL SEVEN-DAY MINIMUM	.99 May 23	1.1 Jun 24	.00 Jan 11 1995
INSTANTANEOUS PEAK FLOW		6800 Jul 8	6800 Jul 8 1999
INSTANTANEOUS PEAK STAGE		18.34 Jul 8	18.34 Jul 8 1999
ANNUAL RUNOFF (AC-FT)	4660	4580	3350
10 PERCENT EXCEEDS	6.0	4.0	3.1
50 PERCENT EXCEEDS	2.2	2.0	1.8
90 PERCENT EXCEEDS	1.3	1.4	1.0

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

094196781 FLAMINGO WASH AT NELLIS BOULEVARD NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'32", long 115°03'55" (revised), in NE 1/4 NE 1/4 sec.8, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on west side of concrete box culvert on Nellis Boulevard, and 0.25 mi north of Sahara Avenue.

DRAINAGE AREA.--215 mi².

PERIOD OF RECORD.--March 1988 to current year. Water year 1988-89 not published but are available in files of the U.S. Geological Survey, Las Vegas, NV. Computations of 1988 water year did not include daily base flow.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 1,730 ft above sea level, from topographic map.

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

REVISIONS.--WDR NV-96-1: 1995.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,600 ft³/s, July 8, 1999, gage height, 15.43 ft, on basis of slope-area measurement of peak flow; maximum gage height, 15.90 ft, June 10, 1990; minimum daily, 1.4 ft³/s, November 3, 1991 and May 12, 1998. Maximum daily precipitation, 1.52 inches, June 10, 1990 and February 8, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,600 ft³/s, July 8, gage height, 15.43 ft, on basis of slope-area measurement of peak flow; minimum daily, 2.0 ft³/s, April 28. Maximum daily precipitation, 1.20 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	8.2	7.0	5.1	5.1	3.6	5.2	3.8	5.3	5.0	5.2	6.8
2	7.0	9.2	7.7	3.9	5.1	3.6	7.0	3.1	20	4.2	5.2	6.5
3	7.0	11	7.7	3.6	5.1	4.3	9.0	2.4	3.9	3.8	4.6	7.0
4	7.0	8.5	7.3	3.6	5.1	3.8	5.1	2.4	14	3.6	5.6	7.2
5	7.0	7.0	7.0	3.6	7.1	3.6	5.1	2.8	4.3	4.7	7.4	7.1
6	7.5	7.0	14	3.6	3.8	4.1	5.1	3.4	3.7	5.2	6.4	7.2
7	6.8	7.0	3.6	3.6	3.6	3.6	5.3	3.7	3.6	15	6.5	7.7
8	6.8	7.0	3.6	3.6	3.8	4.3	5.1	3.6	3.9	613	6.9	7.0
9	7.0	11	3.6	3.6	3.6	4.0	5.1	3.6	3.7	304	6.3	6.9
10	6.8	7.0	3.6	3.6	3.3	4.3	5.1	3.6	4.4	136	55	7.2
11	7.0	7.7	3.6	3.6	3.0	4.9	5.1	3.6	4.6	98	7.6	7.7
12	6.1	9.2	3.6	3.6	2.4	5.1	6.9	4.4	4.0	107	7.9	28
13	5.1	13	3.6	3.6	2.5	5.5	11	5.1	4.4	39	7.5	17
14	5.1	15	3.6	3.6	2.4	4.7	5.1	4.9	4.4	195	6.4	11
15	5.2	13	4.0	4.2	2.4	6.6	5.1	5.2	4.3	56	5.9	9.4
16	5.1	11	4.0	4.1	2.5	6.6	4.2	5.5	4.3	34	8.2	9.2
17	6.3	9.8	4.9	4.0	2.7	7.2	4.7	6.2	4.2	9.2	7.2	9.2
18	7.0	7.1	4.9	4.0	2.6	7.0	4.2	5.5	4.1	9.2	7.4	16
19	7.5	7.0	5.0	3.8	2.4	7.0	4.8	5.7	3.9	8.0	7.3	11
20	8.2	7.0	5.1	3.8	2.4	7.0	3.3	5.9	4.0	7.3	7.8	9.3
21	7.9	7.0	5.1	3.8	2.4	7.0	2.4	5.5	4.1	8.2	7.6	9.0
22	8.2	7.0	5.1	3.7	2.4	7.6	2.4	5.4	4.6	8.8	10	23
23	9.7	6.3	5.1	3.6	2.4	5.6	2.4	5.2	4.9	7.9	9.4	14
24	9.2	7.0	5.1	3.6	2.7	7.3	8.9	6.2	4.8	6.8	10	12
25	9.4	6.7	5.1	3.7	3.9	7.5	2.5	5.9	4.1	7.9	10	12
26	11	7.0	5.1	3.7	3.8	7.3	2.4	5.9	3.8	8.1	8.6	11
27	11	7.2	5.1	3.6	4.0	10	2.4	6.4	3.9	8.5	8.1	6.6
28	12	13	5.1	3.7	3.6	8.7	2.0	5.7	4.4	7.4	8.4	5.7
29	13	7.0	5.1	5.2	---	4.1	5.0	5.1	4.6	6.8	8.6	5.6
30	42	7.0	5.1	5.1	---	4.4	114	4.9	4.5	7.1	10	5.4
31	9.6	---	5.1	5.1	---	5.0	---	5.2	---	6.1	6.9	---
TOTAL	275.5	257.9	163.5	120.9	96.1	175.3	255.9	145.8	152.7	1740.8	279.9	302.7
MEAN	8.89	8.60	5.27	3.90	3.43	5.65	8.53	4.70	5.09	56.2	9.03	10.1
MAX	42	15	14	5.2	7.1	10	114	6.4	20	613	55	28
MIN	5.1	6.3	3.6	3.6	2.4	3.6	2.0	2.4	3.6	3.6	4.6	5.4
AC-FT	546	512	324	240	191	348	508	289	303	3450	555	600
†	0.28	0.08	0.20	0.04	0.08	0.00	0.44	0.00	0.12	1.84	0.12	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	6.91	7.28	8.79	10.5	11.9	9.52	6.17	5.82	6.04	12.0	6.95	9.61
MAX	13.7	11.2	21.1	40.1	35.9	38.7	9.29	8.38	12.7	56.2	10.7	29.4
(WY)	1993	1997	1995	1995	1998	1992	1992	1995	1990	1999	1989	1997
MIN	3.56	4.58	4.30	3.90	3.43	.000	.80	.000	.000	.000	.68	.000
(WY)	1992	1990	1991	1999	1999	1988	1988	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1988 - 1999
ANNUAL TOTAL	4277.5	3967.0	
ANNUAL MEAN	11.7	10.9	8.86
HIGHEST ANNUAL MEAN			12.1
LOWEST ANNUAL MEAN			5.57
HIGHEST DAILY MEAN	270 Jul 20	613 Jul 8	613 Jul 8 1999
LOWEST DAILY MEAN	1.4 May 12	2.0 Apr 28	.00 Mar 1 1988
ANNUAL SEVEN-DAY MINIMUM	3.0 Jul 31	2.5 Feb 17	.00 Mar 1 1988
INSTANTANEOUS PEAK FLOW		5600 Jul 8	5600 Jul 8 1999
INSTANTANEOUS PEAK STAGE		15.43 Jul 8	15.90 Jun 10 1990
ANNUAL RUNOFF (AC-FT)	8480	7870	6420
10 PERCENT EXCEEDS	12	11	9.6
50 PERCENT EXCEEDS	6.9	5.3	6.0
90 PERCENT EXCEEDS	3.6	3.6	3.3

† Precipitation total, in inches

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'23", long 115°02'49", in SE 1/4 NE 1/4 sec.09, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, about 300 ft downstream from Flamingo Wash Confluence, 0.2 mi north of Vegas Valley Drive, and 0.3 mi south of Sahara Ave.

DRAINAGE AREA.--1,352 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 1,710 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,000 ft³/s, July 8, 1999, gage height, 31.00 ft; minimum daily, 4.7 ft³/s, May 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft³/s, July 8, gage height, 31.00 ft; minimum daily, 7.2 ft³/s, November 3, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.4	9.2	11	11	13	11	10	16	e10	9.3	16
2	13	7.9	9.3	10	10	14	12	7.5	38	e10	9.5	17
3	11	7.2	9.0	9.7	10	14	13	7.7	13	e10	9.5	19
4	11	7.3	9.0	e9.0	11	13	11	8.4	20	e10	10	12
5	10	7.2	8.2	e8.0	20	14	11	8.7	13	e10	9.6	12
6	11	7.6	27	11	12	14	11	8.9	9.2	e10	9.5	12
7	11	e8.0	10	9.8	11	13	11	9.1	9.0	e20	9.6	10
8	10	e9.0	9.3	9.1	11	14	11	8.4	9.8	e1560	10	9.9
9	11	12	8.6	9.0	12	14	12	7.7	11	e684	9.9	9.7
10	9.5	8.0	8.8	9.1	11	14	11	8.4	10	e150	150	10
11	9.4	8.5	8.7	9.5	12	15	11	8.6	11	e105	13	10
12	8.5	7.6	9.0	9.9	12	16	13	8.7	12	e270	13	24
13	8.7	9.6	8.9	10	12	16	19	9.0	11	37	13	18
14	8.9	12	8.4	10	11	14	13	8.8	10	304	12	9.4
15	9.3	11	8.6	12	11	15	12	8.7	9.7	51	12	9.0
16	9.3	10	8.6	11	12	15	12	8.4	10	61	12	9.0
17	8.8	9.9	9.8	11	12	14	12	10	10	10	12	8.8
18	9.5	10	9.2	11	11	13	11	9.9	11	9.0	12	18
19	9.1	10	8.8	11	10	15	13	10	11	9.5	13	9.6
20	9.0	10	9.0	10	10	14	11	11	9.7	10	13	9.1
21	9.3	10	9.4	10	9.9	13	11	11	10	11	13	9.1
22	8.7	9.7	10	11	11	13	11	11	10	11	17	26
23	8.5	10	10	11	12	13	10	11	11	10	13	17
24	8.7	10	10	11	13	12	43	11	9.9	9.4	13	9.9
25	9.7	9.7	9.8	11	11	12	14	12	e9.0	11	14	9.6
26	15	10	11	12	13	12	8.5	12	e8.0	9.8	12	9.7
27	9.5	10	11	11	13	13	10	12	e8.0	11	14	9.6
28	8.1	22	12	11	12	15	10	15	e8.0	10	12	9.6
29	9.0	12	12	11	---	12	25	16	e9.0	10	12	9.8
30	95	11	12	11	---	12	297	16	e10	9.9	13	10
31	11	---	12	12	---	11	---	17	---	9.4	12	---
TOTAL	393.5	295.6	316.6	323.1	326.9	422	680.5	321.9	347.3	3453.0	506.9	372.8
MEAN	12.7	9.85	10.2	10.4	11.7	13.6	22.7	10.4	11.6	111	16.4	12.4
MAX	95	22	27	12	20	16	297	17	38	1560	150	26
MIN	8.1	7.2	8.2	8.0	9.9	11	8.5	7.5	8.0	9.0	9.3	8.8
AC-FT	781	586	628	641	648	837	1350	638	689	6850	1010	739

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	11.0	16.8	9.24	9.70	45.0	19.7	13.9	8.73	10.7	53.4	20.7	49.6
MAX	12.7	30.0	11.6	11.5	116	37.5	22.7	10.4	12.2	111	28.6	73.0
(WY)	1999	1997	1997	1997	1998	1998	1999	1999	1998	1999	1997	1997
MIN	9.34	9.85	5.94	7.18	7.60	8.00	7.68	6.33	8.27	14.1	16.4	12.4
(WY)	1998	1999	1998	1998	1997	1997	1997	1997	1997	1997	1999	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1997 - 1999		
ANNUAL TOTAL	10136.5			7760.1					
ANNUAL MEAN	27.8			21.3			24.2		
HIGHEST ANNUAL MEAN							27.2		
LOWEST ANNUAL MEAN							21.3		
HIGHEST DAILY MEAN	1020			1560			1560		
LOWEST DAILY MEAN	4.9			7.2			4.7		
ANNUAL SEVEN-DAY MINIMUM	4.9			7.7			4.9		
INSTANTANEOUS PEAK FLOW				11000			11000		
INSTANTANEOUS PEAK STAGE				31.00			31.00		
ANNUAL RUNOFF (AC-FT)	20110			15390			17540		
10 PERCENT EXCEEDS	21			15			16		
50 PERCENT EXCEEDS	10			11			9.5		
90 PERCENT EXCEEDS	7.2			8.7			6.3		

e Estimated

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1993 to current year.

REMARKS.--In April 1993, station was incorporated into the National Water-Quality Assessment Program (NAWQA) with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources. In January 1997 an automatic sampler was re-installed and used to collect water-quality data as part of the National Pollution Discharge Elimination System (NPDES) monitoring network. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT												
27...	1000	ENVIRONMENTAL	9.6	720	104	9.4	8.0	3720	--	17.0	1760	330
NOV												
12...	0930	ENVIRONMENTAL	9.9	730	98	9.6	8.0	4230	12.0	13.5	2010	360
30...	0900	ENVIRONMENTAL	12	725	101	10.0	8.1	4380	12.5	13.0	--	--
DEC												
15...	0910	ENVIRONMENTAL	13	730	91	9.3	8.2	4180	17.5	12.0	1970	330
30...	0930	ENVIRONMENTAL	15	720	119	12.3	8.2	4420	13.0	10.5	--	--
JAN												
19...	1100	ENVIRONMENTAL	10	715	116	10.7	8.4	5070	15.0	15.5	2430	380
FEB												
05...	0900	ENVIRONMENTAL	25	725	92	9.2	8.2	3260	10.0	12.5	1490	240
05...	0910	REPLICATE	25	725	92	9.2	8.2	3260	10.0	12.5	1500	240
25...	1130	ENVIRONMENTAL	11	720	124	11.7	8.4	4840	19.0	14.5	--	--
MAR												
12...	1000	ENVIRONMENTAL	15	725	115	11.1	8.2	4760	15.5	14.0	2400	320
12...	1008	FIELD BLANK	--	--	--	--	--	<10	--	--	--	<.002
26...	1100	ENVIRONMENTAL	15	715	123	10.5	8.4	4190	25.5	19.0	--	--
APR												
12...	1130	ENVIRONMENTAL	12	720	117	10.4	8.2	4100	--	17.5	1860	290
12...	1139	PESTICIDE SPIKE	--	--	--	--	--	--	--	--	--	--
30...	0530	ENVIRONMENTAL	--	--	--	--	7.7	1200	--	--	--	--
MAY												
25...	0900	ENVIRONMENTAL	--	715	96	8.3	8.0	3650	25.5	18.5	1580	260
JUN												
18...	0830	ENVIRONMENTAL	9.9	720	116	9.4	8.0	3990	32.5	22.0	1760	360
JUL												
27...	1230	ENVIRONMENTAL	18	720	110	7.8	7.7	3780	37.0	29.5	1630	300
AUG												
23...	1000	ENVIRONMENTAL	9.3	705	108	8.0	8.2	3480	29.0	26.0	1620	320
SEP												
08...	0830	ENVIRONMENTAL	13	715	102	8.5	8.2	3710	26.0	20.5	1650	310

LAS VEGAS VALLEY

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM AD-SORPTION RATIO (00931)	ALKALINITY WAT DIS FIELD MG/L AS CAC03 (39086)	BICARBONATE WATER DIS IT MG/L AS HCO3 (00453)	CARBONATE WATER DIS IT MG/L AS CO3 (00452)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT 27...	230	26	270	3	190	232	--	280	.2	37	1700	.29
NOV 12...	270	38	320	3	224	273	--	350	.5	41	1900	.0444
NOV 30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	280	38	310	3	210	257	--	320	.4	34	2000	.025
DEC 30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	360	73	420	4	209	240	7	400	.6	42	2500	.026
FEB 05...	210	35	250	3	184	225	--	280	.6	30	1400	.50
FEB 05...	220	36	260	3	--	--	--	270	.6	30	1400	.50
FEB 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	390	40	380	3	215	262	--	410	.6	49	2200	.022
MAR 12...	<.001	--	<.025	--	<10	--	--	--	--	<.02	--	<.002
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
APR 12...	280	35	320	3	223	272	--	340	.5	42	1800	<.02
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
APR 30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	230	30	280	3	198	242	--	320	.5	37	1600	--
JUN 18...	210	25	310	3	184	225	--	340	.5	35	1700	.11
JUL 27...	210	32	270	3	143	174	--	290	.4	34	1700	.022
AUG 23...	200	30	260	3	205	250	--	250	.5	37	1600	<.02
SEP 08...	210	32	270	3	171	209	--	280	.5	37	1700	<.02
DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOSPHORUS, PHOS-DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOSPHORUS, PHOS-TOTAL (MG/L AS P) (00665)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L) (70301)	ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106)
OCT 27...	1.8	1.7	7.2	.29	<.05	.023	.05	4.48	85.4	3300	2980	--
NOV 12...	.34	.38	6.8	.03	<.05	.016	<.05	5.23	103	3850	3470	--
NOV 30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	.37	.74	5.8	.027	.43	.015	<.05	5.04	130	3710	3430	--
DEC 30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	.31	.32	5.5	.024	<.004	.012	.0082	6.23	124	4580	4300	--
FEB 05...	2.1	2.5	4.2	.22	.14	.13	.19	3.81	189	2800	2600	--
FEB 05...	2.1	2.4	4.2	.21	.14	.12	.20	3.85	--	2830	2600	--
FEB 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	.28	.35	6.2	.028	.005	.012	.014	4.24	125	3120	3990	--
MAR 12...	--	--	<.005	<.001	--	<.001	--	--	--	--	--	<.3
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
APR 12...	.68	.70	5.4	.05	.005	.017	.012	4.98	119	3660	3300	--
APR 12...	--	--	--	--	--	--	--	--	--	--	--	--
APR 30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	--	--	--	--	--	--	--	4.30	--	3160	2850	--
JUN 18...	.45	.54	4.7	.044	.028	.028	.075	4.77	93.8	3510	3140	--
JUL 27...	.69	.70	3.4	.071	.007	<.01	.055	4.28	153	3140	2960	--
AUG 23...	.54	.49	3.8	.046	.011	<.01	.018	4.09	75.5	3010	2800	--
SEP 08...	.38	.49	4.6	.059	.012	<.01	.022	4.40	114	3240	2960	--

LAS VEGAS VALLEY

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)
OCT 27...	--	--	--	--	--	--	--	--	<30	--	26	--
NOV 12...	--	--	--	--	--	--	--	--	<30	--	10	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 15...	--	--	--	--	--	--	--	--	<30	--	14	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 19...	--	--	--	--	--	--	--	--	<40	--	E7	--
FEB 05...	--	--	--	--	--	--	--	--	<30	--	40	--
05...	--	--	--	--	--	--	--	--	<30	--	40	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	<40	--	19	--
12...	<.2	<.2	<.2	<2	<.3	<.2	<.2	<.2	<3	<.3	<.1	<.2
26...	--	--	--	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	<30	--	11	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 25...	--	--	--	--	--	--	--	--	<30	--	10	--
JUN 18...	--	--	--	--	--	--	--	--	<30	--	12	--
JUL 27...	--	--	--	--	--	--	--	--	<10	--	E3	--
AUG 23...	--	--	--	--	--	--	--	--	<30	--	<9	--
SEP 08...	--	--	--	--	--	--	--	--	<30	--	<9	--

[illegible]

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	P,P' DDE DISSOLV (UG/L) (34653)	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB-	PENDI-	PER-	PHORATE	PRO-	PRON-	PROP-	PRO-	PRO-	SI-
			ULATE WATER FILTRD 0.7 U	METH- ALIN WAT FLT 0.7 U	METHRIN CIS WAT FLT 0.7 U	WATER FLTRD 0.7 U	METON, WATER, RECE 0.7 U	AMIDE WATER FLTRD 0.7 U	CHLOR, WATER, RECE 0.7 U	PANIL WATER FLTRD 0.7 U	PARGITE WATER FLTRD 0.7 U	SI- MAZINE, WATER, RECE 0.7 U
			GF, REC (UG/L) (82669)	GF, REC (UG/L) (82683)	GF, REC (UG/L) (82687)	GF, REC (UG/L) (82664)	RECE (UG/L) (04037)	GF, REC (UG/L) (82676)	RECE (UG/L) (04024)	GF, REC (UG/L) (82679)	GF, REC (UG/L) (82685)	RECE (UG/L) (04035)
OCT 27...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 12...	E.0011	<.004	<.004	<.004	<.005	<.002	.019	<.003	<.007	<.004	<.013	.0264
30...	<.006	<.004	<.004	<.004	<.005	<.002	.019	<.003	<.007	<.004	<.013	.0269
DEC 15...	<.006	<.004	<.004	<.004	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.0165
30...	<.006	<.004	<.004	<.004	<.005	<.002	E.0081	<.003	<.007	<.004	<.013	.0166
JAN 19...	E.00076	<.004	<.004	<.004	<.005	<.002	E.00804	.0053	<.007	<.004	<.013	.0445
FEB 05...	<.006	<.004	--	<.004	--	<.002	E.0604	<.003	--	--	--	E2.0
05...	<.006	<.004	--	<.004	--	<.002	E.059	<.003	--	--	--	E1.9
25...	<.006	<.004	<.004	<.004	<.005	<.002	E.011	<.003	<.007	<.004	<.013	.0969
MAR 12...	<.006	<.004	<.004	<.004	<.005	<.002	.0211	<.003	<.007	<.004	<.013	.128
12...	E.0004	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
26...	<.006	<.004	<.004	<.004	<.005	<.002	E.014	<.003	<.007	<.004	<.013	.0346
APR 12...	<.006	<.004	<.004	<.004	<.005	<.002	E.012	<.003	<.007	<.004	<.013	.031
12...	.0661	.0872	.103	.094	.0641	.0546	.105	.105	.146	.116	.111	.113
30...	<.006	<.004	--	<.004	<.005	<.002	.0674	<.003	--	<.004	<.013	1.06
MAY 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 18...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--
DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC (UG/L) PERCENT (91064)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (82661)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
OCT 27...	--	--	--	--	--	--	--	--	2	83	72	
NOV 12...	<.01	<.007	<.013	131	<.002	<.001	<.002	--	2	69	70	
30...	<.01	<.007	<.013	137	<.002	<.001	<.002	--	--	--	--	
DEC 15...	<.01	<.007	<.013	130	<.002	<.001	<.002	--	2	69	52	
30...	<.01	<.007	<.013	131	<.002	<.001	<.002	--	--	--	--	
JAN 19...	<.01	<.007	<.013	117	<.002	<.001	<.002	--	2	85	45	
FEB 05...	--	<.007	<.013	E89	<.002	<.001	<.002	--	6	84	99	
05...	--	<.007	<.013	E99	<.002	<.001	E.001	--	--	--	--	
25...	<.01	<.007	<.013	117	<.002	<.001	<.002	--	--	--	--	
MAR 12...	<.01	<.007	<.013	119	<.002	<.001	<.002	--	3	85	40	
12...	<.01	<.007	<.013	106	<.002	<.001	<.002	<.2	--	--	--	
26...	<.01	<.007	<.013	102	<.002	<.001	<.002	--	--	--	--	
APR 12...	<.01	<.007	<.013	108	<.002	<.001	<.002	--	1	39	40	
12...	.13	E.162	.060	100	.105	.0981	.062	--	--	--	--	
30...	--	<.007	<.013	114	<.002	<.001	E.002	--	--	--	--	
MAY 25...	--	--	--	--	--	--	--	--	--	167	92	
JUN 18...	--	--	--	--	--	--	--	--	6	211	84	
JUL 27...	--	--	--	--	--	--	--	--	12	237	98	
AUG 23...	--	--	--	--	--	--	--	--	0.4	14	48	
SEP 08...	--	--	--	--	--	--	--	--	1	29	71	

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

			DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	2,4,5-T DIS- SOLVED (UG/L) (39742)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	2,6-DI- ETHYL ANILINE WAT FLT GF, REC (UG/L) (82660)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	ACETO- CHLOR, WATER FLTRD REC (UG/L) (49260)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	
APR													
24...	1830	ENVIRONMENTAL	163	7.9	1460	<.035	<1.	<.24	<.003	E.014	<.03	<.035	
30...	0500	ENVIRONMENTAL	1040	7.7	1200	<.035	<.91	<.24	--	<2.25	<.002	<.035	
DATE		ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	BUTYL- ATE, WATER, DISS, REC (UG/L) (04028)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	
APR													
24...	<.03	E.1	E.13	E.55	<.002	<.02	<4.1	<.002	<.11	<.035	<.002	E.28	
30...	<.002	<3.81	<.021	<32.67	<.002	--	<3.8	<.002	<.014	<.035	--	<.14	
DATE		CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ- INON D10 SRG WAT FLT 0.7 U GF, REC (UG/L) (91063)
APR													
24...	E.11	E.69	<.06	<.42	<.48	<.2	<.23	<.004	<.017	<.002	<.002	88 ^a	
30...	E.067	<.12	<.003	<.42	<.48	--	<.23	<.004	<.017	.0049	<.002	87 ^a	
DATE		DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLOR- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL- FLUR- WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	
APR													
24...	.624	<.035	<1.2	<.15	<.001	<.035	<.017	E1.1	<.42	<.002	<.004	<.003	
30...	.188	<.035	<1.2	<.22	<.001	<.035	<.017	E1.3	<.42	--	<.004	<.003	
DATE		FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC (UG/L) (91065)	LINDANE DIS- SOLVED (UG/L) (39341)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	
APR													
24...	<.76	<.035	<.003	93 ^a	<.004	<.018	<.01	.232	<.17	<.14	E.57	E.43	
30...	<.74	<.71	<.003	89 ^a	<.004	<.018	<.002	.13	<.17	<.58	<.34	<.19	
DATE		METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METRI- BUZIN METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	P, P' DDE DISSOLV (UG/L) (34653)	PARA- THON, DIS- SOLVED (UG/L) (39542)	
APR													
24...	<.001	<.006	<.002	<.004	<.004	<.01	<1.1	<.46	<.66	E3.4	<.006	<.004	
30...	<.001	<.006	<.002	<.004	--	--	<.015	<.16	<.73	<.018	<.006	<.004	

LAS VEGAS VALLEY

094196783 LAS VEGAS WASH BELOW FLAMINGO WASH CONFLUENCE NEAR LAS VEGAS, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)
APR											
24...	<.004	<.004	<.005	<.002	<.05	.129	<.03	<.007	<.03	<.013	E.64
30...	--	<.004	<.005	<.002	<.05	.0709	<.003	--	<.004	<.013	<1.79
DATE	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS- SOLVED (UG/L) (39762)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC (UG/L) (91064)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
APR											
24...	E1.8	<.021	1.01	<.06	<.007	<.06	108 ^a	<.002	<.001	<.25	<.002
30...	<.57	<.021	1.09	--	<.007	<.01	126 ^a	<.002	<.001	<.25	<.002

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

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

LAS VEGAS VALLEY

094196784 LAS VEGAS WASH AT VEGAS VALLEY DRIVE NEAR LAS VEGAS, NV

LOCATION.--Lat 36°08'13", long 115°02'16", in NE 1/4 SW 1/4 sec.10, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, at junction of Las Vegas Wash and Vegas Valley Drive.

DRAINAGE AREA.--1,019 mi².

PERIOD OF RECORD.--June to September 1999.

GAGE.--Water stage recorder. Elevation of gage is 1,690 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 11,000 ft³/s, July 8, gage height, 11.22 ft; minimum daily, 8.2 ft³/s, September 21. Maximum daily precipitation, 0.98 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	13	e11	20
2	---	---	---	---	---	---	---	---	---	12	e11	16
3	---	---	---	---	---	---	---	---	---	13	11	16
4	---	---	---	---	---	---	---	---	---	12	e11	9.1
5	---	---	---	---	---	---	---	---	---	15	e11	9.0
6	---	---	---	---	---	---	---	---	---	14	e10	9.2
7	---	---	---	---	---	---	---	---	---	23	9.8	9.8
8	---	---	---	---	---	---	---	---	e1600	13	9.0	9.0
9	---	---	---	---	---	---	---	---	617	8.8	8.9	8.9
10	---	---	---	---	---	---	---	---	62	359	8.8	8.8
11	---	---	---	---	---	---	---	---	12	e11	8.7	8.7
12	---	---	---	---	---	---	---	---	187	e11	e30	e30
13	---	---	---	---	---	---	---	---	13	e11	28	28
14	---	---	---	---	---	---	---	---	833	e11	12	12
15	---	---	---	---	---	---	---	---	212	e10	12	12
16	---	---	---	---	---	---	---	---	e10	62	e10	11
17	---	---	---	---	---	---	---	---	e10	32	e10	10
18	---	---	---	---	---	---	---	---	e11	e10	9.5	20
19	---	---	---	---	---	---	---	---	e11	e10	9.3	9.8
20	---	---	---	---	---	---	---	---	e10	e10	9.2	8.5
21	---	---	---	---	---	---	---	---	e9.0	e10	9.5	8.2
22	---	---	---	---	---	---	---	---	e9.0	e10	17	47
23	---	---	---	---	---	---	---	---	e9.0	e10	11	21
24	---	---	---	---	---	---	---	---	8.6	e10	12	12
25	---	---	---	---	---	---	---	---	9.1	e10	15	12
26	---	---	---	---	---	---	---	---	8.3	e10	12	11
27	---	---	---	---	---	---	---	---	8.3	e10	16	11
28	---	---	---	---	---	---	---	---	8.3	e10	13	10
29	---	---	---	---	---	---	---	---	9.2	e10	12	11
30	---	---	---	---	---	---	---	---	10	9.7	17	11
31	---	---	---	---	---	---	---	---	---	e11	16	---
TOTAL	---	---	---	---	---	---	---	---	140.8	3872.7	708.1	420.0
MEAN	---	---	---	---	---	---	---	---	9.39	125	22.8	14.0
MAX	---	---	---	---	---	---	---	---	11	1600	359	47
MIN	---	---	---	---	---	---	---	---	8.3	9.7	8.8	8.2
AC-FT	---	---	---	---	---	---	---	---	279	7680	1400	833
†	---	---	---	---	---	---	---	---	---	1.89	0.04	0.44

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	1600	Jul 8
LOWEST DAILY MEAN	8.2	Sep 21
ANNUAL SEVEN-DAY MINIMUM	8.7	Jun 22
INSTANTANEOUS PEAK FLOW	11000	Jul 8
INSTANTANEOUS PEAK STAGE	11.22	Jul 8
10 PERCENT EXCEEDS	30	
50 PERCENT EXCEEDS	11	
90 PERCENT EXCEEDS	9.0	

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419679 LAS VEGAS WASTEWAY NEAR EAST LAS VEGAS, NV

LOCATION.--Lat 36°06'22", long 115°01'07", in NW 1/4 SE 1/4 sec.23, T.21 S., R.62 E., Clark County, Hydrologic Unit 15010015, on left bank, 500 ft west of Hollywood Boulevard, and 1.5 mi northeast of East Las Vegas Civic Center.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1979 to September 1983, November 1983 to May 1984, and September 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,650 ft above sea level, from topographic map. See WDR NV-97-1 for history of changes prior to 1997 water year. Prior to November 21, 1997, at same site at datum 1.0 ft higher.

REMARKS.--Records poor. Flow regulated by sewage treatment plant. At higher flows, some water can bypass the gage due to overbank flow upstream. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft³/s, July 2, 1980, gage height, 5.15 ft, datum then in use; maximum gage height, 6.81 ft, November 21, 1996; minimum daily, 45 ft³/s, August 22, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 562 ft³/s, April 30, gage height, 5.41 ft, but may have been higher during period of missing record, May 26 to August 20; minimum daily, 133 ft³/s, April 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	165	169	194	181	192	e177	225	e200	e196	e215	219
2	150	168	171	197	172	177	e173	221	e140	e176	e214	219
3	160	157	176	198	149	136	e171	219	e211	e191	e205	213
4	161	154	174	184	195	187	e175	212	e209	e193	e173	209
5	157	155	163	185	203	192	e173	207	e210	e196	e221	214
6	156	160	198	141	182	187	e171	201	e211	e192	e221	213
7	157	147	202	196	185	192	e171	209	e200	e200	e218	218
8	160	161	175	196	181	185	e174	204	e200	e500	e213	205
9	160	172	195	200	184	178	e173	205	e197	e400	e215	199
10	160	160	185	200	144	179	e149	197	e195	e300	e300	214
11	167	151	184	187	199	175	e163	193	e195	e250	e214	211
12	164	160	191	180	194	177	e174	199	e190	e350	e215	226
13	160	149	196	176	186	178	e168	201	e197	e250	e212	223
14	160	160	185	179	185	181	e133	198	e196	e275	e208	215
15	154	160	182	185	185	184	e177	197	e201	e250	e216	217
16	161	161	170	181	181	175	e178	206	e199	e250	e203	217
17	150	156	177	186	181	180	e178	208	e183	e204	e218	207
18	171	150	175	187	177	177	e176	202	e199	e219	e213	222
19	161	150	175	181	177	178	e182	196	e201	e205	e220	218
20	149	147	180	180	171	182	188	199	e191	e212	e214	216
21	153	152	182	178	191	179	184	206	e195	e205	217	202
22	161	159	178	180	183	181	179	199	e169	e206	220	245
23	156	170	180	181	174	177	173	210	e177	e207	225	233
24	161	157	178	184	147	179	195	208	e203	e206	214	218
25	155	160	179	184	187	174	192	200	e206	e206	208	217
26	172	161	171	179	188	174	183	e192	e205	e206	217	215
27	161	173	193	176	184	178	177	e199	e202	e206	222	218
28	155	178	196	179	194	180	182	e193	e211	e213	215	209
29	157	184	190	177	---	175	191	e193	e203	e213	219	209
30	195	178	192	184	---	169	359	e200	e190	e215	224	210
31	167	---	195	188	---	161	---	e200	---	e218	220	---
TOTAL	4964	4815	5657	5703	5060	5519	5439	6299	5886	7310	6729	6471
MEAN	160	160	182	184	181	178	181	203	196	236	217	216
MAX	195	184	202	200	203	192	359	225	211	500	300	245
MIN	149	147	163	141	144	136	133	192	140	176	173	199
AC-FT	9850	9550	11220	11310	10040	10950	10790	12490	11670	14500	13350	12840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1999, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
MEAN	146	147	143	150	151	149	144	142	143	146	150	150
MAX	217	224	212	233	253	221	204	205	209	236	218	237
(WY)	1998	1997	1997	1995	1998	1998	1997	1998	1998	1999	1997	1997
MIN	79.0	83.2	85.5	91.7	94.7	86.4	80.8	79.1	70.3	73.3	66.8	75.0
(WY)	1980	1980	1980	1982	1981	1980	1981	1979	1979	1979	1979	1979

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1979 - 1999

	1998	1999	1979-1999
ANNUAL TOTAL	72645	69852	
ANNUAL MEAN	199	191	150
HIGHEST ANNUAL MEAN			212
LOWEST ANNUAL MEAN			87.3
HIGHEST DAILY MEAN	450	500	500
LOWEST DAILY MEAN	147	133	45
ANNUAL SEVEN-DAY MINIMUM	154	154	50
INSTANTANEOUS PEAK FLOW		562	734
INSTANTANEOUS PEAK STAGE		5.41	6.81
ANNUAL RUNOFF (AC-FT)	144100	138600	108400
10 PERCENT EXCEEDS	230	218	205
50 PERCENT EXCEEDS	199	187	145
90 PERCENT EXCEEDS	158	160	89

e Estimated

LAS VEGAS VALLEY

09419695 PITTMAN WASH AT WIGWAM PARKWAY NEAR HENDERSON, NV

LOCATION.--Lat 36°02'09", long 115°06'49", in SW 1/4 NE 1/4 sec.13, T.22 S., R.61 E., Clark County, Hydrologic Unit 15010015, on upstream side of concrete box culvert on Wigwam Parkway, and 1.0 mi east of Eastern Avenue.

DRAINAGE AREA.--68.31 mi².

PERIOD OF RECORD.--October 1988 to current year. Records prior to October 1994 not published but are available in files of U.S. Geological Survey, Las Vegas, NV.

GAGE.--Water-stage recorder and recording tipping bucket rain gage with 0.04 inch increment. Elevation of gage is 2,060 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair, except for discharges below 15 ft³/s, which are poor. Flow below 15 ft³/s not recorded. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s, September 11, 1998, gage height, 13.10 ft; no flow most of time. Maximum daily precipitation, 1.88 inches, September 11, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 376 ft³/s, July 8, gage height, 11.28 ft; no flow most days. Maximum daily precipitation recorded 0.84 in., September 22, but may have been higher July 8, gage inoperative.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	5.8	.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	.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
30	.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	5.80	0.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.19	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.8	.00	.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	12	.00	.00
†	0.20	0.16	0.08	0.00	0.12	0.00	1.16	0.00	---	---	0.72	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.000	.000	.000	.032	.004	.17	.000	.000	.047	.17	.20	.33
MAX	.005	.000	.000	.35	.039	2.05	.000	.000	.57	1.32	1.19	3.32
(WY)	1991	1989	1989	1990	1998	1992	1988	1988	1990	1998	1991	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1989	1989	1988	1988	1988	1988	1988	1989	1988	1988

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1988 - 1999	
ANNUAL TOTAL	141.57		5.80			
ANNUAL MEAN	.39		.016		.085	
HIGHEST ANNUAL MEAN					.39	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	99	Sep 11	5.8	Jul 8	99	Sep 11 1998
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Jan 23 1988
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Jan 23 1988
INSTANTANEOUS PEAK FLOW			376	Jul 8	1450	Sep 11 1998
INSTANTANEOUS PEAK STAGE			11.28	Jul 8	13.10	Sep 11 1998
ANNUAL RUNOFF (AC-FT)	281		12		62	
10 PERCENT EXCEEDS	.00		.00		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

† Precipitation total, in inches

LAS VEGAS VALLEY

09419740 C-1 CHANNEL NEAR WARM SPRINGS ROAD AT HENDERSON, NV

LOCATION.--Lat 36°02'41", long 114°57'30" in SE 1/4 SE 1/4 sec.8, T.22 S., R.63 E., Clark County, Hydrologic Unit 15010015, on left bank, 0.8 mi east of Lake Mead Drive and 0.3 mi south of Warm Springs Road.

DRAINAGE AREA.--3.78 mi².

PERIOD OF RECORD.--October 1990 to September 1994 (published as "at Warm Springs Road near Henderson"), May 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,870 ft above sea level, from topographic map. Prior to May 24, 1995, water-stage recorder at site 0.3 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s, August 10, 1997, gage height, 18.44 ft; no flow most of time. Maximum daily precipitation, 2.36 inches, August 10, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 180 ft³/s, July 8, gage height, 11.71 ft; no flow most days. Maximum daily precipitation, 1.32 inches, July 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	e5.0	.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	.08
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	1.4
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
30	.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	5.00	0.00	1.48
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.16	.000	.049
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0	.00	1.4
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.9	.00	2.9
†	0.32	0.16	0.12	0.04	0.12	0.00	0.60	0.00	0.28	2.00	0.04	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.032	.016	.035	.11	.30	1.07	.000	.000	.004	.098
MAX	.25	.11	.22	.55	1.35	8.24	.000	.000	.015	.46
(WY)	1993	1997	1993	1993	1993	1992	1991	1991	1991	1996
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1991	1991	1992	1994	1994	1994	1991	1991	1992	1991

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

	1998	1999	1990-1999
ANNUAL TOTAL	28.50	6.48	
ANNUAL MEAN	.078	.018	.34
HIGHEST ANNUAL MEAN			1.51
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	6.8 Jul 23	5.0 Jul 8	417 Aug 10 1997
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
INSTANTANEOUS PEAK FLOW		180 Jul 8	2700 Aug 10 1997
INSTANTANEOUS PEAK STAGE		11.71 Jul 8	18.44 Aug 10 1997
ANNUAL RUNOFF (AC-FT)	57	13	249
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

† Precipitation total, in inches

LAS VEGAS VALLEY

09419756 LAS VEGAS WASH OVERFLOW AT LAKE LAS VEGAS INLET, NV

LOCATION.--Lat 36°06'09", long 114°56'01", in SE 1/4 SW 1/4 sec.22, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, on right end of weir at Lake Las Vegas Inlet structure, about 3.5 mi northeast of Henderson.

DRAINAGE AREA.--2,190 mi², approximately.

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

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s, July 8, 1999, gage height, 40.04 ft; no flow most of time.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,000 ft³/s, July 8, gage height, 40.04 ft; no flow most days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
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	e4100	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	e340	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.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	83	.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
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.02	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4523.00	0.02	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	146	.001	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	4100	.02	.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	8970	.04	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	.002	.50	.000	3.04	6.07	6.29	.000	.000	.000	18.8	.081	9.47
MAX	.012	3.97	.000	23.5	20.1	46.2	.000	.000	.000	146	.65	75.1
(WY)	1993	1997	1992	1995	1998	1992	1992	1992	1992	1999	1997	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1992	1992	1992	1993	1995	1993	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

	1998	1999	1992	1993	1994	1995	1996	1997	1998	1999
ANNUAL TOTAL	3086.00	4523.02								
ANNUAL MEAN	8.45	12.4								
HIGHEST ANNUAL MEAN										
LOWEST ANNUAL MEAN										
HIGHEST DAILY MEAN	2090	Sep 11	4100	Jul 8						
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1						
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1						
INSTANTANEOUS PEAK FLOW			17000	Jul 8						
INSTANTANEOUS PEAK STAGE			40.04	Jul 8						
ANNUAL RUNOFF (AC-FT)	6120		8970							
10 PERCENT EXCEEDS	.00	.00	.00	.00						
50 PERCENT EXCEEDS	.00	.00	.00	.00						
90 PERCENT EXCEEDS	.00	.00	.00	.00						

e Estimated

LAS VEGAS VALLEY

09419790 LAS VEGAS WASH BELOW LAKE LAS VEGAS BELOW HENDERSON, NV

LOCATION.--Lat 36°07'14", long 114°54'34", in NW 1/4 SE 1/4 sec.14, T.21 S., R.63 E., Clark County, Hydrologic Unit 15010015, at downstream side of Lake Las Vegas Dam, and about 4.0 mi northeast of Henderson.

DRAINAGE AREA--2,200 mi², approximately.

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

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

REMARKS.--Records poor. Discharge is regulated by design capacity of outlet tube in dam and debris accumulations on trash racks during high flows. See schematic diagram of Colorado River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft³/s, February 7, 1998, gage height, 9.76 ft; maximum gage height, 10.12 ft, July 10, 1996; minimum daily, 107 ft³/s, June 15, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,000 ft³/s, July 14, gage height, 7.44 ft; minimum daily, 170 ft³/s, February 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	224	255	238	229	e224	233	378	222	e218	214	199
2	211	234	251	244	215	e207	240	332	188	e199	223	241
3	214	222	253	249	177	e171	239	310	210	e213	219	227
4	215	209	240	236	237	e207	239	275	221	e215	191	204
5	231	209	234	225	257	e204	232	235	e235	e218	222	197
6	231	223	247	173	237	228	237	223	e235	e213	236	175
7	228	219	247	240	240	233	225	232	e224	e221	231	179
8	229	228	218	241	236	e205	236	234	e224	572	222	175
9	228	228	228	242	236	222	238	240	e221	654	244	171
10	234	212	214	245	183	223	231	232	e219	322	333	225
11	253	208	214	233	e220	226	252	223	e219	264	207	180
12	246	e200	222	224	232	225	240	226	e214	376	205	206
13	237	e200	228	219	231	225	245	234	e221	327	204	300
14	234	224	222	223	230	232	207	245	e220	554	188	294
15	225	229	219	223	227	235	241	240	e225	322	193	292
16	226	232	207	226	248	227	242	234	e222	365	200	275
17	231	225	210	231	242	e213	249	234	e205	226	214	251
18	255	233	215	233	247	221	e235	227	e222	e239	207	238
19	239	227	216	228	247	226	231	218	e224	e225	211	180
20	224	228	224	225	243	228	217	222	e214	e232	204	246
21	218	235	225	220	257	229	215	224	e218	e225	180	185
22	217	240	222	217	e220	228	221	221	e192	e226	188	233
23	214	251	227	225	e200	224	222	233	e200	e227	210	204
24	218	240	225	230	e170	227	239	238	e226	e226	196	263
25	224	242	227	228	e210	231	278	234	e229	e226	202	257
26	224	236	220	231	e220	236	239	221	e227	e225	205	274
27	215	247	240	223	236	239	238	222	e224	e225	207	283
28	216	245	244	228	253	241	250	217	e233	e232	178	278
29	224	273	237	222	---	239	262	216	e225	e232	180	281
30	268	269	241	234	---	232	402	224	e212	e234	209	233
31	238	---	244	241	---	229	---	225	---	e237	204	---
TOTAL	7085	6892	7116	7097	6380	6937	7275	7469	6571	8690	6527	6946
MEAN	229	230	230	229	228	224	242	241	219	280	211	232
MAX	268	273	255	249	257	241	402	378	235	654	333	300
MIN	211	200	207	173	170	171	207	216	188	199	178	171
AC-FT	14050	13670	14110	14080	12650	13760	14430	14810	13030	17240	12950	13780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	197	212	210	220	231	212	202	188
MAX	229	300	282	280	401	253	242	241
(WY)	1999	1998	1998	1995	1998	1998	1999	1999
MIN	171	170	163	185	183	185	180	166
(WY)	1994	1994	1992	1992	1992	1994	1993	1993

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1992 - 1999

ANNUAL TOTAL	85873	84985	
ANNUAL MEAN	235	233	205
HIGHEST ANNUAL MEAN			244
LOWEST ANNUAL MEAN			178
HIGHEST DAILY MEAN	1500	Feb 24	1500
LOWEST DAILY MEAN	116	Jun 25	107
ANNUAL SEVEN-DAY MINIMUM	124	Jun 30	124
INSTANTANEOUS PEAK FLOW			1000
INSTANTANEOUS PEAK STAGE		7.44	10.12
ANNUAL RUNOFF (AC-FT)	170300	168600	148400
10 PERCENT EXCEEDS	268	253	243
50 PERCENT EXCEEDS	225	227	195
90 PERCENT EXCEEDS	175	204	166

e Estimated

COLORADO RIVER MAIN STEM

09421000 LAKE MEAD AT HOOVER DAM, AZ-NV

LOCATION--Lat 36°00'58", long 114°44'13", in NE 1/4 SW 1/4 sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave-Clark Counties, Hydrologic Unit 15010005, in center of Hoover Dam on Colorado River.

DRAINAGE AREA--171,700 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. Diversions (monthly totals only): to Boulder City area, since October 1935; to Henderson and Las Vegas areas, since April 1942; combined diversions since October 1968. Prior to 1946 published as "at Boulder Dam."

REVISED RECORDS.--WSP 899: 1935-39.

GAGE.--Water-stage indicator read once daily at midnight, with supplementary water-stage recorder. Datum of gage is 0.00 ft to Local Powerhouse datum.

REMARKS.--Reservoir is formed by concrete arch-gravity dam; storage began February 1, 1935; dam completed March 1, 1936. Total capacity (based on 1963-64 resurvey by Coast and Geodetic Survey; capacity table put into use April 1, 1967), 29,755,000 acre-ft, consisting of the following: Dead storage, 2,378,000 acre-ft below gage height 895.0 ft--gate sills in outlet towers; usable contents, 26,159,000 acre-ft between gage heights 895.0 ft and 1,221.4 ft (top of automatic spillway gates in raised position); uncontrolled storage, 1,218,000 acre-ft between gage heights 1,221.4 ft and 1,229.0 ft (maximum water surface). Reservoir is used to store water for flood control, irrigation, municipal water supply, power development, and recreation. Figures given herein represent usable contents. See schematic diagram of Colorado River Basin.

DIVERSIONS FROM LAKE MEAD.--Diversions to Boulder City area at dam; diversions to Henderson and Las Vegas areas from intakes 6 mi upstream. Diversions measured by Venturi meters. Water used for municipal and industrial purposes.

COOPERATION.--Records of gage height and contents furnished by Bureau of Reclamation. Records of diversions from Lake Mead furnished by Bureau of Reclamation and Colorado River Commission of Nevada.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 27,790,000 acre-ft, July 29, 30, 1941 (on basis of original bathymetry), gage height, 1,220.45 ft; maximum gage height, 1,225.85 ft, July 24, 1983 (equivalent to 26,868,000 acre-ft on basis of resurveyed bathymetry of 1963-64); minimum contents (since 1940), 10,695,000 acre-ft, April 26, 1956, gage height, 1,083.21 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 25,290,000 acre-ft, November 1, gage height 1,215.84 ft; minimum, 23,857,000 acre-ft, June 30, gage height, 1,206.40 ft.

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25140	25290	25112	24787	24832	24887	24645	24214	24001	23860	24002	24225
2	25149	25279	25104	24787	24825	24877	24633	24210	24001	23863	24008	24249
3	25157	25268	25104	24780	24821	24858	24638	24190	24000	23870	24003	24273
4	25176	25268	25095	24764	24813	24850	24635	24165	24012	23883	24009	24305
5	25180	25264	25085	24737	24818	24845	24551	24135	24022	23883	24021	24325
6	25172	25259	25086	24717	24827	24847	24536	24116	24021	23874	24030	24335
7	25179	25261	25060	24703	24835	24847	24510	24090	24008	23873	24040	24334
8	25180	25268	25043	24686	24833	24832	24488	24082	23997	23885	24056	24334
9	25194	25259	25021	24692	24821	24810	24474	24088	23991	23877	24054	24350
10	25211	25255	25008	24697	24825	24809	24477	24074	23984	23882	24058	24367
11	25225	25244	24997	24698	24819	24796	24477	24062	23974	23885	24062	24391
12	25228	25242	25000	24702	24821	24799	24450	24048	23966	23882	24057	24391
13	25220	25241	25006	24709	24832	24798	24432	24018	23958	23874	24045	24415
14	25211	25247	25000	24718	24838	24796	24406	24024	23938	23873	24047	24420
15	25210	25259	24977	24720	24850	24783	24380	24030	23925	23870	24051	24435
16	25200	25251	24957	24738	24861	24770	24364	24042	23925	23885	24051	24447
17	25207	25238	24937	24757	24861	24760	24362	24033	23916	23898	24044	24469
18	25213	25231	24914	24763	24867	24754	24361	24018	23900	23909	24051	24494
19	25196	25225	24905	24775	24864	24747	24346	24015	23901	23919	24062	24519
20	25185	25216	24890	24770	24868	24749	24328	24008	23910	23927	24072	24527
21	25182	25217	24865	24783	24871	24757	24312	23997	23909	23931	24093	24524
22	25180	25216	24835	24798	24868	24752	24293	24008	23898	23936	24105	24536
23	25185	25192	24798	24801	24871	24747	24293	24015	23882	23931	24114	24546
24	25203	25169	24795	24822	24865	24729	24294	24006	23874	23949	24117	24556
25	25217	25154	24813	24813	24861	24712	24299	24004	23864	23966	24122	24575
26	25222	25158	24824	24816	24868	24700	24276	23991	23868	23970	24124	24580
27	25225	25155	24830	24816	24879	24706	24252	23979	23879	23979	24132	24589
28	25241	25138	24827	24815	24899	24717	24236	23972	23868	23985	24156	24581
29	25242	25138	24816	24816	---	24700	24218	23977	23858	23986	24180	24588
30	25256	25128	24802	24830	---	24682	24216	23990	23857	23986	24190	24592
31	25278	---	24781	24836	---	24662	---	24001	---	23988	24207	---
MAX	25278	25290	25112	24836	24899	24887	24645	24214	24022	23988	24207	24592
MIN	25140	25128	24781	24686	24813	24662	24216	23972	23857	23860	24002	24225
*	1215.76	1214.79	1212.53	1212.89	1213.30	1211.75	1208.80	1207.37	1206.40	1207.28	1208.74	1211.29
#	+152000	-150000	-347000	+55000	+63000	-237000	-446000	-215000	-144000	+131000	+219000	+385000
##	35876	31039	28781	29902	28417	34681	34935	41429	37000	38380	37831	34088
**	5.83	3.35	2.80	3.23	4.17	8.46	8.74	12.3	13.5	12.2	10.9	9.45
a	75000	43100	35800	41100	53200	107700	110200	153300	167500	151700	136700	119200

CAL YR 1998 MAX 25298 MIN 24609 # +142000 ## 374738 ** 62.6 a 800700

WTR YR 1999 MAX 25290 MIN 23857 # -534000 ## 412089 ** 94.9 a 1194300

* 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, for Water Year 1999.

a Gross evaporation, in acre-feet, from Lake Mead, for Water Year 1999.

COLORADO RIVER MAIN STEM
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.6 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. See schematic diagram of Colorado River Basin.

COOPERATION.--Records furnished by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50,800 ft³/s, July 29, 1983, no flow at Hoover Dam part of February 10, 1935; minimum daily, 152 ft³/s, February 10, 1935.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11200	9170	19200	11100	17900	19500	23500	13200	18500	15100	11500	8770
2	9600	19900	19300	15700	14400	21300	17700	11000	13800	13100	14300	6930
3	8100	15200	15800	18100	16800	19500	15700	23900	15600	9980	18800	8160
4	5520	12700	21100	24500	19400	18500	9970	24600	14000	9660	17500	4520
5	10000	16400	15600	27300	13200	19500	20600	25500	11600	16200	12400	9000
6	13200	18400	16500	26300	9950	11600	21200	23100	15400	20300	11000	10600
7	11700	10300	26600	24200	11400	10500	19700	23200	22100	17100	11400	15300
8	12200	11000	22800	25300	14100	19900	20700	14500	18500	15100	11300	13500
9	8850	16700	22400	15700	15500	19200	20400	13300	17100	22200	17200	9770
10	5580	15600	22000	14400	15600	17300	12000	21800	21100	17900	15600	10300
11	7980	17100	21500	18800	15300	18500	11200	23300	19600	15700	16500	7570
12	12400	15800	11500	15400	14300	13300	21500	24900	19100	21800	20500	10100
13	15800	14700	12300	11600	7610	13000	22400	25000	18300	22700	23800	16200
14	17300	10300	20900	9680	7340	14300	24500	19500	25900	19500	17400	10700
15	16100	7870	22200	10700	11900	16500	23700	15600	18700	17700	13600	13700
16	18000	18200	24600	7520	11200	19300	21400	13500	17800	18900	20000	11900
17	9600	14900	25400	6890	12000	16600	13200	23000	21700	11400	19400	9490
18	11400	18500	24400	9610	13800	17200	12800	22000	23300	10200	16500	7080
19	21200	17100	16000	7480	13400	16800	21400	21700	15000	13600	14100	7410
20	18500	17500	19500	9470	12000	10200	20100	22100	10000	12200	13500	14800
21	15500	14600	31400	9100	9750	9200	20800	21900	16100	13700	11600	16800
22	15400	13200	28600	8510	18400	15900	16500	14500	18900	16000	13200	20400
23	11300	24900	30600	8970	14500	16700	15900	15300	19500	17900	15500	17000
24	8360	22700	12900	8890	16200	20000	11800	19900	19200	8670	16800	14600
25	5620	23900	8070	14800	13600	19900	10800	21300	20100	9070	16300	11100
26	12400	11800	9440	12300	13600	15700	23100	23700	14100	14200	15600	13500
27	11100	15700	12900	13700	8740	12200	21000	22700	11900	14400	15000	15500
28	9360	18700	17200	13500	7390	9670	20200	24200	18500	13000	5910	14400
29	14100	18700	16900	13200	---	21500	18900	13100	19500	17800	6440	14200
30	8470	18100	23800	7890	---	17900	16100	11100	16900	20500	8950	15500
31	7410	---	25200	8460	---	18600	---	10100	---	17600	13000	---
TOTAL	363250	479640	616610	429070	369280	509770	548770	602500	531800	483180	454600	358800
MEAN	11720	15990	19890	13840	13190	16440	18290	19440	17730	15590	14660	11960
MAX	21200	24900	31400	27300	19400	21500	24500	25500	25900	22700	23800	20400
MIN	5520	7870	8070	6890	7340	9200	9970	10100	10000	8670	5910	4520
AC-FT	720500	951400	1223000	851100	732500	1011000	1088000	1195000	1055000	958400	901700	711700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1999, BY WATER YEAR (WY)

MEAN	11780	11540	11990	12330	12640	14790	15910	16200	15700	15630	15190	13440
MAX	34250	30530	33670	32700	30680	28790	26290	33330	34890	41870	39390	36750
(WY)	1984	1942	1942	1942	1984	1984	1984	1986	1984	1983	1983	1983
MIN	3109	3519	4444	3540	1106	5474	7297	8898	9786	10880	9961	6619
(WY)	1935	1935	1935	1979	1993	1993	1935	1937	1940	1937	1936	1982

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1935 - 1999	
ANNUAL TOTAL	6441890		5747270			
ANNUAL MEAN	17650		15750			
HIGHEST ANNUAL MEAN					13940	
LOWEST ANNUAL MEAN					30590	
HIGHEST DAILY MEAN	31400	Dec 21	31400	Dec 21	50800	Jul 29 1983
LOWEST DAILY MEAN	4460	Sep 6	4520	Sep 4	152	Feb 10 1935
ANNUAL SEVEN-DAY MINIMUM	8760	Sep 4	8110	Aug 29	927	Feb 25 1980
ANNUAL RUNOFF (AC-FT)	12780000		11400000		10100000	
10 PERCENT EXCEEDS	24000		22700		21700	
50 PERCENT EXCEEDS	18200		15600		13400	
90 PERCENT EXCEEDS	10100		9090		6510	

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.--For an explanation of the National Stream-Quality Accounting Network (NASQAN), see the introductory text "Special Networks and Projects". Samples collected at gaging station 0.3 mi downstream from Hoover Dam. Unpublished chemical analyses for period October 1939 to September 1940 available from the U.S. Geological Survey in Tucson, Arizona. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

COOPERATION.--Instantaneous-discharge data provided by Bureau of Reclamation, Boulder City, Nevada.

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

SPECIFIC CONDUCTANCE: Maximum, 1,180 microsiemens, 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 1998 TO SEPTEMBER 1999

[illegible][illegible]

[illegible][illegible]

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible][illegible]

COLORADO RIVER MAIN STEM

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible]

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, (UG/L) (04035)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
DEC											
16...	<.004	<.004	<.005	<.002	E.0014	<.003	<.007	<.004	<.013	E.0038	<.01
16...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.01
16...	--	--	--	--	--	--	--	--	--	--	--
FEB											
03...	<.004	<.004	<.005	<.002	E.0016	<.003	<.007	<.004	<.013	E.0037	E.0012
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	<.004	<.004	<.005	<.002	E.0017	<.003	<.007	<.004	<.013	<.005	E.0014
MAR											
03...	<.004	<.004	<.005	<.002	E.0017	<.003	<.007	<.004	<.013	<.005	E.0049
03...	--	--	--	--	--	--	--	--	--	--	--
03...	<.004	<.004	<.005	<.002	E.0022	<.003	<.007	<.004	<.013	<.005	E.0048
APR											
26...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005	<.01
26...	.097	.10	.050	.073	.096	.096	.11	.11	.077	.11	.12
26...	--	--	--	--	--	--	--	--	--	--	--
JUN											
23...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	.007	E.0058
23...	--	--	--	--	--	--	--	--	--	--	--
AUG											
25...	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.008	<.01
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	URANIUM NATURAL DIS- SOLVED (UG/L) AS U (22703)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC										
16...	<.007	<.013	90.8 ^a	<.002	<.001	<.002	--	E374	4	52
16...	<.007	<.013	93.1 ^a	<.002	<.001	<.002	--	--	--	--
16...	--	--	--	--	--	--	--	--	4	54
FEB										
03...	<.007	<.013	85.1 ^a	<.002	<.001	<.002	--	E351	5	51
03...	--	--	--	--	--	--	<.2	--	--	--
03...	--	--	--	--	--	--	<.2	--	--	--
03...	<.007	<.013	86.0 ^a	<.002	<.001	<.002	--	E280	4	50
MAR										
03...	<.007	<.013	105 ^a	<.002	<.001	<.002	--	E273	4	50
03...	--	--	--	--	--	--	--	--	--	--
03...	<.007	<.013	102 ^a	<.002	<.001	<.002	--	--	4	53
APR										
26...	<.007	<.013	114 ^a	<.002	<.001	<.002	--	E2590	23	67
26...	E.14	.094	103 ^a	.088	.079	.10	--	--	--	--
26...	--	--	--	--	--	--	--	--	9	69
JUN										
23...	<.007	<.013	--	<.002	<.001	<.002	--	E826	22	52
23...	--	--	--	--	--	--	--	--	16	60
AUG										
25...	<.007	<.013	--	<.002	<.001	<.002	--	E382	8	74
25...	--	--	--	--	--	--	--	--	3	70

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels"). This does not apply to discharge.

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

COLORADO RIVER MAIN STEM

09422500 LAKE MOHAVE AT DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'50", long 114°34'07", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.21 N., R.21 W., Gila and Salt River meridian, Mohave County, Arizona, Hydrologic Unit 15030101, on forebay structure on Arizona side of Davis Dam on Colorado River, 29 mi west of Kingman, Az., and 67 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by earthfill and rockfill dam; dam completed in April 1949 and storage began Jan. 17, 1950. Usable capacity, 1,810,000 acre-ft between elevations 533.39 ft - lowest point of penstock outlet - and 647.0 ft - top of spillway gates. A small amount of additional storage is available through use of splashboards on the spillway gates. Dead storage, 8,530 acre-ft below elevation 533.39 ft. Lake is used for power development, regulation for irrigation demand, and to satisfy requirements of the Treaty of 1944 with Mexico. Figures given herein represent usable contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,811,000 acre-ft, May 24, 1958, May 29, 1963, May 29, 1982; maximum elevation, 647.04 ft, May 29, 1963, May 29, 1982; minimum contents (since 1952), 1,168,000 acre-ft, September 8, 1953, elevation, 622.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,760,000 acre-ft May 29, elevation, 645.22 ft; minimum, 1,503,000 acre-ft December 29, elevation, 635.68 ft.

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

632	1,409,000	641	1,644,000
635	1,486,000	644	1,726,000
638	1,564,000	647	1,810,000
632	1,409,000	641	1,644,000

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1721000	1638000	1611000	1525000	1666000	1692000	1684000	1661000	1709000	1689000	1688000	1692000
2	1715000	1648000	1610000	1524000	1674000	1702000	1684000	1647000	1708000	1678000	1687000	1680000
3	1708000	1654000	1596000	1527000	1685000	1713000	1680000	1657000	1707000	1665000	1698000	1670000
4	1697000	1653000	1591000	1545000	1702000	1720000	1674000	1671000	1699000	1650000	1702000	1652000
5	1694000	1652000	1576000	1577000	1705000	1725000	1679000	1686000	1684000	1649000	1697000	1648000
6	1696000	1656000	1563000	1595000	1707000	1712000	1685000	1699000	1678000	1655000	1685000	1650000
7	1696000	1646000	1568000	1611000	1710000	1704000	1691000	1707000	1683000	1660000	1676000	1651000
8	1700000	1636000	1573000	1629000	1720000	1714000	1696000	1694000	1681000	1656000	1669000	1660000
9	1693000	1639000	1576000	1627000	1735000	1725000	1698000	1686000	1680000	1666000	1672000	1653000
10	1680000	1639000	1568000	1625000	1751000	1725000	1685000	1694000	1687000	1674000	1671000	1645000
11	1678000	1644000	1578000	1628000	1760000	1733000	1671000	1700000	1692000	1679000	1675000	1634000
12	1679000	1647000	1557000	1628000	1758000	1729000	1674000	1710000	1697000	1686000	1683000	1630000
13	1682000	1646000	1533000	1619000	1745000	1719000	1683000	1718000	1697000	1703000	1697000	1637000
14	1690000	1635000	1530000	1608000	1737000	1719000	1700000	1714000	1711000	1711000	1702000	1637000
15	1697000	1625000	1530000	1615000	1731000	1724000	1707000	1709000	1710000	1726000	1700000	1631000
16	1705000	1625000	1534000	1612000	1728000	1733000	1711000	1701000	1707000	1730000	1709000	1619000
17	1694000	1625000	1551000	1612000	1725000	1731000	1703000	1711000	1713000	1725000	1718000	1607000
18	1690000	1629000	1554000	1615000	1721000	1731000	1694000	1719000	1724000	1717000	1722000	1586000
19	1708000	1622000	1540000	1620000	1719000	1730000	1701000	1722000	1719000	1717000	1720000	1565000
20	1717000	1618000	1538000	1623000	1711000	1711000	1704000	1727000	1706000	1711000	1722000	1560000
21	1721000	1609000	1561000	1629000	1707000	1689000	1705000	1731000	1702000	1707000	1716000	1558000
22	1726000	1599000	1575000	1623000	1717000	1683000	1702000	1720000	1703000	1709000	1718000	1565000
23	1721000	1610000	1590000	1616000	1713000	1681000	1690000	1716000	1704000	1714000	1720000	1561000
24	1708000	1621000	1574000	1617000	1712000	1685000	1677000	1719000	1705000	1698000	1729000	1555000
25	1691000	1629000	1546000	1628000	1711000	1691000	1666000	1725000	1712000	1689000	1732000	1542000
26	1689000	1617000	1522000	1635000	1709000	1686000	1672000	1733000	1703000	1682000	1723000	1537000
27	1681000	1610000	1509000	1644000	1697000	1676000	1681000	1732000	1698000	1679000	1723000	1533000
28	1672000	1609000	1504000	1653000	1677000	1663000	1682000	1731000	1695000	1674000	1719000	1526000
29	1675000	1609000	1503000	1661000	---	1671000	1683000	1730000	1696000	1677000	1710000	1517000
30	1665000	1610000	1512000	1653000	---	1674000	1673000	1724000	1693000	1691000	1700000	1512000
31	1650000	---	1533000	1650000	---	1675000	---	1707000	---	1696000	1698000	---
MAX	1726000	1656000	1611000	1661000	1760000	1733000	1711000	1733000	1724000	1730000	1732000	1692000
MIN	1650000	1599000	1503000	1524000	1666000	1663000	1666000	1647000	1678000	1649000	1669000	1512000
(*)	641.19	639.72	636.82	641.22	642.21	642.15	642.05	643.31	642.79	642.90	642.99	636.02
(**)	-82000	-40000	-77000	+117000	+27000	-2000	-2000	+34000	-14000	+3000	+2000	-186000

CAL YR 1998 MAX 1769000 MIN 1420000 (**) -173000

WTR YR 1999 MAX 1760000 MIN 1503000 (**) -220000

(*) Elevation, in feet, at end of month.

(**) Change in contents, in acre-feet.

COLORADO RIVER MAIN STEM

09423000 COLORADO RIVER BELOW DAVIS DAM, AZ-NV

LOCATION.--Lat 35°11'30", long 114°34'17", in SE 1/4 NE 1/4 sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Clark County, Nevada, Hydrologic Unit 15030101, on right bank, 0.5 mi downstream from Davis Dam, 29 mi west of Kingman, Az., and 68 mi downstream from Hoover Dam.

DRAINAGE AREA.--173,300 mi², approximately, including 3,959 mi² in Great Divide basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--June 1905 to September 1907 (published as "at Hardyville"), March 1949 to current year.

REVISED RECORDS.--WDR AZ-86-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, sea level; gage readings have been reduced to elevations sea level since October 1, 1967. 1905-7, nonrecording gage at site 4.8 mi downstream at datum about 3.4 ft lower. March 16 to May 3, 1949, water-stage recorder at site 0.5 mi downstream at datum 10.00 ft higher. May 4, 1949, to February 24, 1956, water-stage recorder at site 400 ft upstream at datum 10.00 ft higher. February 25, 1956, to September 30, 1967, water-stage recorder at present site at datum 10.00 ft higher.

REMARKS.--No estimated daily discharge. Records excellent. Flow regulated by Lake Mead since February 1, 1935, and by Lake Mohave since January 17, 1950. Many diversions upstream for irrigation, industrial, and municipal uses.

EXTREMES FOR PERIOD OF RECORD.--1905-7: Maximum daily discharge, 116,000 ft³/s, June 20, 1906; minimum daily, 2,850 ft³/s, January 5, 1906. 1949-97: Maximum discharge, 46,200 ft³/s, July 2, 1983, elevation, 509.48 ft; maximum elevation, 513.91 ft, April 22, 1952; no flow at Davis Dam parts of several days July to September 1950 and December 27, 1950, when gates in dam were closed; minimum daily discharge, 285 ft³/s, August 3, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,300 ft³/s, December 27, 29, elevation, 504.73 ft; minimum daily, 6,280 ft³/s, January 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15000	14400	18900	16600	10200	14200	18600	19800	17000	18400	15400	13400
2	12500	14400	19500	16600	9780	13900	18600	19000	17100	18500	16100	13400
3	12500	12900	22900	16000	10400	13700	16500	19400	16500	17500	14000	13300
4	10700	14600	23400	14400	10800	15500	15300	17800	16700	17500	13900	13100
5	11200	15900	23500	10600	10400	16800	18600	17800	20500	16800	16000	11800
6	11400	15600	23600	16600	9210	16800	16300	17700	19300	16800	16200	11200
7	11200	15700	23600	16600	9880	15600	17300	18500	20500	16700	16100	13700
8	10100	15500	20300	16400	9010	14200	18400	20500	20400	16900	14900	14500
9	11100	15300	23400	16400	6650	14400	19400	18500	17900	16700	15700	14400
10	12800	14700	23400	16400	7450	16300	19200	18600	17200	14700	15700	14600
11	10000	15100	16300	16400	11300	15000	19700	19600	17100	14600	15700	13700
12	12100	15200	23700	16400	13800	15500	18400	19700	17700	17100	16500	11400
13	13500	15200	23800	16300	13900	16700	18400	20300	18600	15500	15700	12400
14	12300	15600	24000	14500	12800	15400	18200	22000	18500	14500	15700	12400
15	12900	14100	22600	7550	13800	13900	19300	19800	19800	12400	14600	16400
16	14000	17500	21800	7710	13300	14200	18300	18500	18800	13600	15200	17400
17	14600	17900	15800	7460	13200	17500	17400	17800	19200	14400	15100	17700
18	12900	14400	22200	6920	14400	18300	18300	18700	18100	14400	14100	17300
19	13400	18500	23900	6480	15900	18300	18900	19900	17200	14300	14200	17500
20	13600	18600	20800	6280	15000	19600	18700	19600	16800	15300	14000	18200
21	14300	18700	20300	8330	13400	20000	19000	19800	18700	15300	14100	18200
22	11700	18700	21400	10900	12100	19400	19700	19800	18500	15200	14200	18200
23	12600	18800	22300	11800	15700	18300	20800	18800	19400	15300	13200	18300
24	14800	18700	22400	9430	16000	18300	19400	18700	19600	15900	12700	18100
25	14900	18700	22100	8780	15000	17700	17100	18700	17100	14200	12700	18300
26	14700	18800	22200	8960	14400	16600	18700	18700	17100	17400	13200	18300
27	14300	18800	22200	9570	16200	18700	18600	19300	16100	17600	13200	17200
28	13400	18800	20000	8620	16700	17500	19600	19400	19200	16500	13100	18200
29	14100	18800	18400	8360	---	16400	19400	19600	19400	15100	11600	18200
30	14500	18800	16400	10400	---	17000	20600	18500	18200	14400	13500	18400
31	14400	---	14600	10900	---	17400	---	17900	---	14600	13400	---
TOTAL	401500	498700	659700	368650	350680	513100	556700	592700	548200	488100	449700	469200
MEAN	12950	16620	21280	11890	12520	16550	18560	19120	18270	15750	14510	15640
MAX	15000	18800	24000	16600	16700	20000	20800	22000	20500	18500	16500	18400
MIN	10000	12900	14600	6280	6650	13700	15300	17700	16100	12400	11600	11200
AC-FT	796400	989200	1309000	731200	695600	1018000	1104000	1176000	1087000	968100	892000	930700
CAL YR 1998	TOTAL	6523900	MEAN	17870	MAX	24000	MIN	10000	AC-FT	12940000		
WTR YR 1999	TOTAL	5896930	MEAN	16160	MAX	24000	MIN	6280	AC-FT	11700000		

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figure 16.

Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Colorado River Basin								
California Wash near Moapa, NV (09417300)	Lat 36°36'37", long 114°39'37", in SE ¹ / ₄ SE ¹ / ₄ sec.24, T.15 S., R.65 E., Clark County, Hydrologic Unit 15010012, 1.6 mi northwest of Byron Interchange on Interstate Highway 15. Drainage area is about 35 mi ² .	1981, 1987-99	7-8-99	34.84	100	8-10-81	--	30,600
Weiser Wash near Glendale, NV (09418990)	Lat 36°40'05", long 114°31'10", in SW ¹ / ₄ SE ¹ / ₄ sec.31, T.14 S., R.67 E., Clark County, Hydrologic Unit 15010012, at culvert on Interstate Highway 15, about 2 mi east of Glendale at milemarker 93. Drainage area is 43 mi ² .	1966-81, 1984, 1990, 1998, 1999	9-11-98, 7-13-99	8.00, --	180, <1	8-15-90	14.00	1200
Valley of Fire Wash near Overton, NV (09419545)	Lat 36°24'18", long 114°25'05", in SE ¹ / ₄ SW ¹ / ₄ sec.32, T.17 S., R.68 E., Clark County, Hydrologic Unit 15010005, on Northshore Road, 1.1 mi west of Fire Bay. Drainage area is about 28 mi ² .	1981, 1984, 1987-98	10-30-98	43.24	27	8-10-81	--	20,800
Telephone Canyon near Charleston Park, NV (09419630)	Lat 36°16'20", long 115°32'30", in SE ¹ / ₄ NW ¹ / ₄ sec.25, T.19 S., R.57 E., Clark County, Hydrologic Unit 15010015, at culvert on State Highway 157, and 5.8 mi east of Charleston Park. Drainage area is 7.20 mi ² .	1962-99	--	--	--	12-06-66	7.78	2,500
Kyle Canyon near Charleston Park, NV (09419640)	Lat 36°16'40", long 115°28'10", in SE ¹ / ₄ SW ¹ / ₄ sec.22, T.19 S., R.58 E., Clark County, Hydrologic Unit 15010015, 650 feet below culvert on State Highway 157, and 10 mi east of Charleston Park. Drainage area is 35.9 mi ² .	1961-99	7-08-99	--	20	12-06-66	6.00	1,660
Las Vegas Wash at North Las Vegas, NV (09419650)	Lat 36°12'40", long 115°06'20", in SW ¹ / ₄ NE ¹ / ₄ sec.13, T.20 S., R.61 E., Clark County, Hydrologic Unit 15010015, on right bank, 100 feet upstream from Las Vegas Blvd, and 3.5 mi northeast of Fremont Street in Las Vegas. Estimated drainage area is 720 mi ² .	1963-78, 1982-99	7-08-99	8.46	2,600	7-03-75	9.64	12,000
Las Vegas Wash tributary near Nellis Air Force Base, NV (09419660)	Lat 36°13'55", long 115°04'05", in NW ¹ / ₄ NE ¹ / ₄ sec.8, T.20 S., R.62 E., Clark County, Hydrologic Unit 15010015, at culvert on Alternate State Highway 604, 1.5 mi southwest of Nellis Air Force Base. Drainage area is 18.1 mi ² .	1961-84, 1986-99	7-08-99	--	20	10-09-72	4.60	618

CREST-STAGE PARTIAL-RECORD STATIONS--Continued

CREST-STAGE PARTIAL-RECORD STATIONS--Continued								
Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	GageHeight (feet)	Discharge (ft ³ /s)
Colorado River Basin--Continued								
RedRock Wash near Blue Diamond, NV (09419670)	Lat 36°09'30", long 115°29'45", in NE ¹ / ₄ NW ¹ / ₄ sec.4, T.21 S., R.58 E., Clark County, Hydrologic Unit 15010015, 0.2 mile southeast of Willow Spring, and 9.3 mi northwest of Blue Diamond. Drainage area is 8.09 mi ² .	1962-99	7-13-99	--	10	1-25-69	6.60	7,470
Cottonwood Valley near Blue Diamond, NV (09419680)	Lat 36°00'35", long 115°25'50", in NE ¹ / ₄ NW ¹ / ₄ sec.25, T.22 S., R.58 E., Clark County, Hydrologic Unit 15010015, at culverts on Cottonwood Valley Road, 3 mi southwest of Blue Diamond. Drainage area is 18.3 mi ² .	1961-99	7-08-99	16.91	200	1-25-69	8.53	1,100
Oak Creek Wash near Blue Diamond, NV (09419682)	Lat 36°02'41", long 115°22'38", in SW ¹ / ₄ SW ¹ / ₄ sec.9, T.22 S., R.59 E., Clark County, Hydrologic Unit 15010015, on Blue Diamond Boulevard, 1.4 mi east of Blue Diamond.	1987-99	7-08-99	44.10	700	8-16-90	43.42	820
Bird Spring Wash near Arden, NV (09419685)	Lat 36°00'44", long 115°14'33", in NW ¹ / ₄ NW ¹ / ₄ sec.26, T.22 S., R.60 E., Clark County, Hydrologic Unit 15010015, 0.5 mile southwest of Arden.	1987-99	7-08-99	44.38	40	7-08-99	44.38	40
Piute Wash tributary near Searchlight, NV (09423300)	Lat 35°28'00", long 114°56'20", in SE ¹ / ₄ NE ¹ / ₄ sec.33, T.28 S., R.63 E., Clark County, Hydrologic Unit 15030102, at culvert on State Hi8ghway 164, 1.1 mile west of Searchlight, NV. Drainage area is approximately 3.4 mi ² .	1967-82, 1984, 1987-90, 1998-99	7-20-98 8-17-99	8.88 4.56	170 13	9-11-98	21 ^c	600

^c Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

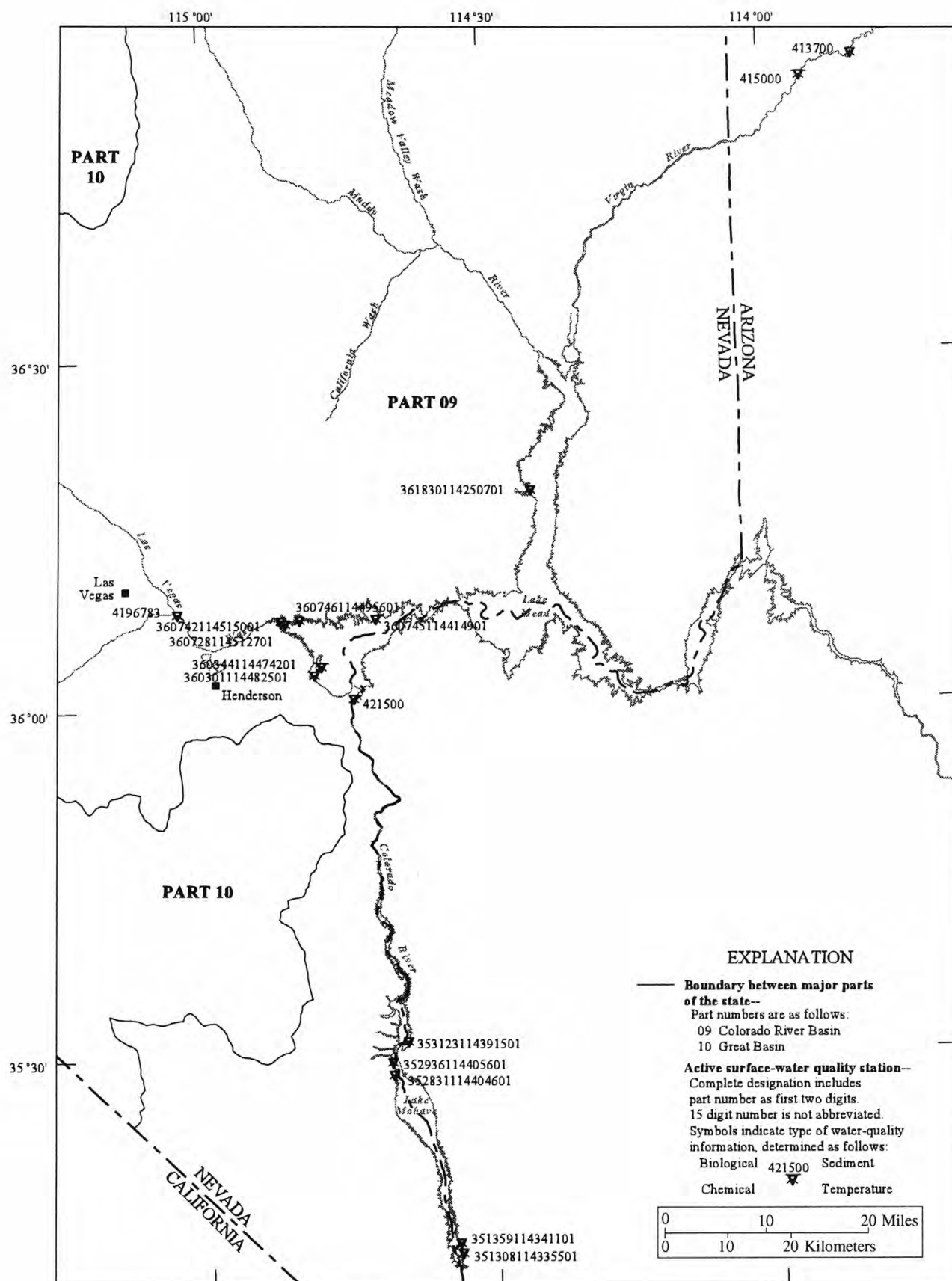
MISCELLANEOUS SITES

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)
Colorado River Basin					
Blue Point Spring near Valley of Fire State Park, NV (09419547)	Lake Mead	Lat 36°23'24", long 114°25'59", in NW ¹ / ₄ NE ¹ / ₄ sec.07, T.18 S., R.68 E. Clark County, Hydrologic Unit 15010005, in Lake Mead Recreation Area, about 4 mi east of Valley of Fire State Park and 13 mi south of Overton.	1999	12/15/1998	.22
				02/18/1999	.36
				04/28/1999	.46
				06/01/1999	.48
				07/22/1999	.48
Duck Creek at Eastern Ave at Paradise Valley, NV (09419688)	Las Vegas Wash	Lat 36°03'21", long 115°07'19", in NW ¹ / ₄ NW ¹ / ₄ sec.12, T.22 S., R.61 E. Clark County, Hydrologic Unit 15010005, on upstream side culvert on Eastern Ave, .25 mi south of Warm Springs Road in Las Vegas.	1987-1996 ⁺ 1999	07/08/1999	4,300
Duck Creek at Tropicana Ave at East Las Vegas, NV (09419696)	Las Vegas Wash	Lat 36°05'31", long 115°01'19", in NE ¹ / ₄ SW ¹ / ₄ sec.26, T.12 S., R.62 E. Clark County, Hydrologic Unit 15010005, at Tropicana Avenue and 1.2 mi upstream from Las Vegas Wash.	1980-89, 1998, 1999	07/08/1999	3,100
Tropicana Wash at Swenson Street Bridge at Las Vegas, NV (09419676)	Las Vegas Wash	Lat 36°06'49", long 115°08'48", in NE ¹ / ₄ NW ¹ / ₄ sec.22, T.21 S., R.61 E. Clark County, Hydrologic Unit 15010005, on upstream side, Swenson Street bridge over Tropicana Wash, .10 mi south of Flamingo Road.	1989-1996 ⁺ 1999	07/08/1999	2,000
Las Vegas Wash above Three Kids Wash below Henderson (09419753)	Lake Mead	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 15010005, on left bank 0.1 mi above Three Kids Wash, 2.7 mi southwest of Northshore Road Bridge and 3.0 mi northeast of Henderson.	1988-1998 ⁺ 1999	07/08/1999	^c 18,000

⁺ Operated as a continuous recording station

^c Estimated



COLORADO RIVER MAIN STEM
QUALITY OF SURFACE WATER
LAKES MEAD AND MOHAVE

Water-quality measurements in the following table were made in cooperation with the National Park Service to help determine the impact of two-cycle engines on the water quality and the occurrence of volatile organic compounds in water samples and semivolatile organic compounds, organochlorine pesticides, dioxins, and furans in bed sediment samples. Dioxin and furan bed sediment data were determined by Quanterra Incorporated, West Sacramento, CA. The following sites are shown in figure 24.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

										ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)		BENZENE UNFLTRD REC PERCENT (99834)	
STATION NUMBER		STATION NAME		DATE		TIME							
351308114335501		Lake Mohave at Katherine Landing		06-02-99		1400		644		81 ^a			
351359114341101		Lake Mohave at North Telephone Cove		06-02-99		1440		644		93 ^a			
352831114404601		Lake Mohave at Tequila Cove		06-02-99		1050		644		91 ^a			
352936114405601		Lake Mohave at Cottonwood Cove		06-02-99		1020		644		91 ^a			
353123114391501		Lake Mohave at Yuma Cove		06-02-99		1000		644		89 ^a			
360301114482501		Lake Mead at Lake Mead Marina		06-01-99		0750		1157		89 ^a			
360344114474201		Lake Mead near Saddle Island intake		06-01-99		1215		1000		92 ^a			
360728114512701		Lake Mead at Blackbird Point		06-01-99		1130		1157		89 ^a			
360742114515001		Las Vegas Bay-NAWQA sample site		06-01-99		1155		1200		93 ^a			
360745114414901		Callville Bay near Callville Point		06-01-99		1045		1200		88 ^a			
360746114495601		Lake Mead at Government Wash		06-01-99		1120		1157		83 ^a			
361830114250701		Lake Mead at Echo Bay		06-01-99		0930		1157		88 ^a			
		DI-ISO- PROPYL- ETHER, WATER,	ETHANE 12DICL SURROG VOC	ETHER TERT- BUTYL METHYL	ETHER TERT- PENTYL METHYL	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL TERT- BUTYL ETHER (UG/L) (78032)	META/ PARA- XYLENE WATER (UG/L) (85795)	O- XYLENE WATER (UG/L) (77135)	TOLUENE D8 SURROG VOC (99833)	TOLUENE TOTAL (UG/L) (34010)		
DATE	BENZENE TOTAL (UG/L) (34030)	UNFLTRD RECOVER (UG/L) (81577)	UNFLTRD REC PERCENT (99832)	UNFLTRD RECOVER (UG/L) (50004)	UNFLTRD RECOVER (UG/L) (50005)	BENZENE TOTAL (UG/L) (34371)	WAT UNF REC (UG/L) (78032)	UNFLTRD REC (UG/L) (85795)	WHOLE TOTAL (UG/L) (77135)	UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (UG/L) (34010)		
06-02-99	1.25	<.098	102 ^a	<.054	E.077	1.01	4.16	4.19	1.83	97 ^a	6.18		
06-02-99	.144	<.098	109 ^a	<.054	<.11	.111	.613	.485	.202	101 ^a	.743		
06-02-99	.164	<.098	107 ^a	<.054	<.11	.144	.379	.661	.262	102 ^a	.860		
06-02-99	.242	<.098	107 ^a	<.054	<.11	.187	.767	.914	.398	100 ^a	1.22		
06-02-99	.251	<.098	109 ^a	<.054	<.11	.213	.723	1.11	.504	100 ^a	1.08		
06-01-99	.604	<.098	108 ^a	<.054	<.11	.426	.647	1.82	.740	101 ^a	2.94		
06-01-99	.247	<.098	108 ^a	<.054	<.11	.164	.335	.706	.260	99 ^a	1.23		
06-01-99	.396	<.098	106 ^a	<.054	<.11	E.064	.947	.910	.393	101 ^a	.628		
06-01-99	E.053	<.098	101 ^a	<.054	<.11	E.010	.822	E.045	E.027	100 ^a	.118		
06-01-99	.687	<.098	109 ^a	<.054	<.11	.466	.768	1.97	.760	98 ^a	2.99		
06-01-99	1.06	<.098	105 ^a	<.054	<.11	.703	1.74	3.75	1.55	97 ^a	5.01		
06-01-99	.710	<.098	108 ^a	<.054	<.11	.597	.582	2.57	1.01	100 ^a	3.69		
												ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	
STATION NUMBER		STATION NAME		DATE		TIME						CARBON. INORG. SED, BM DW, REC (G/KG) (49270)	
360344114474201		Lake Mead near Saddle Island Intake		08-18-99		0830		1000		73		87	
360745114414901		Callville Bay near Callville Point		08-18-99		0930		1200		36		44	
		2,2'-BI QUINO LINE,		4-BROMO PHNPHNL ETHER		4CHLORO PHENAN LETHRE		4HCYPEN PHENAN THRENE		9,10- ANTHRA- QUINONE		9H-FLU- ORENE 1METHYL	
		SED, BM		SED, BM		SED, BM		SED, BM		SED, BM		SED, BM	
		WS, <2MM		WS, <2MM		WS, <2MM		WS, <2MM		WS, <2MM		WS, <2MM	
		DW, REC		DW, REC		DW, REC		DW, REC		DW, REC		DW, REC	
		(G/KG)		(UG/KG)		(UG/KG)		(UG/KG)		(UG/KG)		(UG/KG)	
		(49271)		(49391)		(49421)		(49454)		(49455)		(49411)	
		(49275)		(49395)		(49425)		(49459)		(49464)		(49437)	
		(49399)		(49429)		(49439)		(49398)		(49399)		(49398)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
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		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
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		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(49429)		(49429)		(49429)		(49429)	
		(49429)		(49429)		(							

COLORADO RIVER MAIN STEM
QUALITY OF SURFACE WATER
LAKES MEAD AND MOHAVE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
DATE	BENZENE O-DI- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49439)	BENZENE P-DI- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49442)	BENZENE PNTCHLR NITRO- SED, BM WS, <2MM DW, REC (UG/KG) (49446)	BENZO (A) PYRENE SED, BM WS, <2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR- ANTHENE SED, BM WS, <2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS, <2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS, <2MM DW, REC (UG/KG) (49397)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BETA- BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49339)	BIPHENL 2FLUORO SURROGT SED, BM WS, <2MM DW, REC (UG/KG) (49279)	BIS2CHL ETHYL ETHER SED, BM WS, <2MM DW, REC (UG/KG) (49456)
08-18-99	<100	<100	<100	<100	<100	<100	<100	<100	<1	55 ^a	<100
08-18-99	<100	<100	<100	<100	<100	<100	<100	<100	<1	61 ^a	<100
DATE	BENZENE O-DI- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49439)	BENZENE P-DI- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49442)	BENZENE PNTCHLR NITRO- SED, BM WS, <2MM DW, REC (UG/KG) (49446)	BENZO (A) PYRENE SED, BM WS, <2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR- ANTHENE SED, BM WS, <2MM DW, REC (UG/KG) (49458)	BENZO(G HI)PERY LENE SED, BM WS, <2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS, <2MM DW, REC (UG/KG) (49397)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BETA- BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49339)	BIPHENL 2FLUORO SURROGT SED, BM WS, <2MM DW, REC (UG/KG) (49279)	BIS2CHL ETHYL ETHER SED, BM WS, <2MM DW, REC (UG/KG) (49456)
08-18-99	<100	<100	<100	<100	<100	<100	<100	<100	<1	55 ^a	<100
08-18-99	<100	<100	<100	<100	<100	<100	<100	<100	<1	61 ^a	<100
DATE	CARBA- ZOLE SED, BM WS, <2MM DW, REC (UG/KG) (49449)	CHLORO- NEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322)	CHRY- SENE SED, BM WS, <2MM DW, REC (UG/KG) (49450)	CIS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320)	CIS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316)	CIS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49349)	DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324)	DIBENZ (AH), AN THRACEN SED, BM WS, <2MM DW, REC (UG/KG) (49461)	DIEL- DRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331)	DIPHNYL AMINE, N NITROSO SED, BM WS, <2MM DW, REC (UG/KG) (49433)	DPROPYL AMINE, N NITROSO SED, BM WS, <2MM DW, REC (UG/KG) (49431)
08-18-99	<100	<5	<100	<1	<1	<5	<5	<100	<1	<100	<100
08-18-99	<100	<5	<100	<1	<1	<5	<5	<100	<1	<100	<100
DATE	ENDO- SULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332)	ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	HEPTA- CHLOR EPOXIDE SED, BM WS, <2MM DW, REC (UG/KG) (49342)	HEPTA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49341)	INDENO 123-CD PYRENE SED, BM WS, <2MM DW, REC (UG/KG) (49390)	ISODRIN SED, BM WS, <2MM DW, REC (UG/KG) (49344)	ISOPHOR ONE SED, BM WS, <2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS, <2MM DW, REC (UG/KG) (49394)	LINDANE SED, BM WS, <2MM DW, REC (UG/KG) (49345)	M-CRE- SOL, 4- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49422)
08-18-99	<1	<2	<100	<1	<1	<100	<1	<100	<100	<1	<100
08-18-99	<1	<2	<100	<1	<1	<100	<1	<100	<100	<1	<100
DATE	METHANE 2CHLORO ETHOXY SED, BM WS, <2MM DW, REC (UG/KG) (49401)	METHOXY CHLOR, O, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49347)	METHOXY CHLOR P, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49346)	MIREX, SED, BM WS, <2MM DW, REC (UG/KG) (49348)	NAPTHAL ENE, 12 DIMETHL SED, BM WS, <2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS, <2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE, 236 TRIMETH SED, BM WS, <2MM DW, REC (UG/KG) (49405)	NAPTHAL ENE, 26 DIMETHL SED, BM WS, <2MM DW, REC (UG/KG) (49406)	NAPTHAL ENE, 2- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49407)	NAPTHAL ENE, 2- ETHYL- SED, BM WS, <2MM DW, REC (UG/KG) (49948)	NAPHTH- ALENE, SED, BM WS, <2MM DW, REC (UG/KG) (49402)
08-18-99	<100	<5	<5	<1	<100	<100	<100	E11.4	<100	<100	<100
08-18-99	<100	<5	<5	<1	<100	<100	<100	E4	<100	<100	<100
DATE	O, P'- DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49325)	O, P'- DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327)	O, P'- DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329)	OXY- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318)	P, P'- DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326)	P, P'- DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49328)	P, P'- DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49330)	PCB, SED, BM WS, <2MM DW, REC (UG/KG) (49459)	P- CRESOL SED, BM WS, <2MM DW, REC (UG/KG) (49451)	PENTA- CHLORO- ANISOLE SED, BM WS, <2MM DW, REC (UG/KG) (49460)	PHENAN THRENE 1METHYL SED, BM WS, <2MM DW, REC (UG/KG) (49410)
08-18-99	<1	<1	<2	<1	<1	1.3	<2	<50	<100	<1	<100
08-18-99	<1	<1	<2	<1	<1	<1	<2	<50	<100	<1	<100
DATE	PHENAN THRENE SED, BM WS, <2MM DW, REC (UG/KG) (49409)	PHENAN- THRI- DINE SED, BM WS, <2MM DW, REC (UG/KG) (49393)	PHENOL C8- ALKYL- SED, BM WS, <2MM DW, REC (UG/KG) (49424)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	PHENOL SED, BM WS, <2MM DW, REC (UG/KG) (49413)	PHTHALA TE, BIS2 ETHHEXL SED, BM WS, <2MM DW, REC (UG/KG) (49426)	PHTHALA BENZYL- SED, BM WS, <2MM DW, REC (UG/KG) (49427)	PHTHAL- ATE, DIBUTYL SED, BM WS, <2MM DW, REC (UG/KG) (49381)	PHTHAL- ATE, D IETHYL SED, BM WS, <2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE, DI- METHYL SED, BM WS, <2MM DW, REC (UG/KG) (49384)	PHTHAL ATE, D IOCTYL SED, BM WS, <2MM DW, REC (UG/KG) (49382)
08-18-99	<100	<100	<100	<100	<100	E57.5	E59.4	E46.6	E22.4	<100	<100
08-18-99	<100	<100	<100	<100	<100	E57.1	E86.1	E48.5	E21.8	<100	<100

COLORADO RIVER MAIN STEM
QUALITY OF SURFACE WATER
LAKES MEAD AND MOHAVE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	PYRENE, 1- METHYL, SED, BM WS, <2MM DW, REC (UG/KG) (49388)	PYRENE, SED, BM WS, <2MM DW, REC (UG/KG) (49387)	QUINO- LINE, SED, BM WS, <2MM DW, REC (UG/KG) (49392)	TERPHEN YL D14- SURROGT SED, BM WS, <2MM DW, REC PERCENT (49278)	THIOPH ENE, DI- BENZO- SED, BM WS, <2MM DW, REC (UG/KG) (49452)	TOLUENE 2,4-DI- NITRO- SED, BM WS, <2MM DW, REC (UG/KG) (49395)	TOLUENE 2,6-DI- NITRO- SED, BM WS, <2MM DW, REC (UG/KG) (49396)	TOXA- PHENE SED, BM WS, <2MM DW, REC (UG/KG) (49351)	TRANS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49321)	TRANS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49317)	TRANS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49350)
08-18-99	<100	<100	<100	67 ^a	<100	<100	<100	<200.	<1	<1	<5
08-18-99	<100	<100	<100	87 ^a	<100	<100	<100	<200.	<1	<1	<5
DATE	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)	1,2,3,4, 6,7,8 HEPTA- CHLORO- DIBENZO FURAN SED, BM WS, <2MM (PG/G)
08-18-99	<6.8	<6.8	<6.8	<23	<23	<23	<23	<1.6	<1.6	<1.6	<1.6
08-18-99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

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

ND: Non Detection

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
LAS VEGAS VALLEY

361843115161001. Local number, 212 S19 E60 09BCC1.

LOCATION.--Lat 36°18'43", long 115°16'10", Hydrologic Unit 15010015, in Clark County.

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.

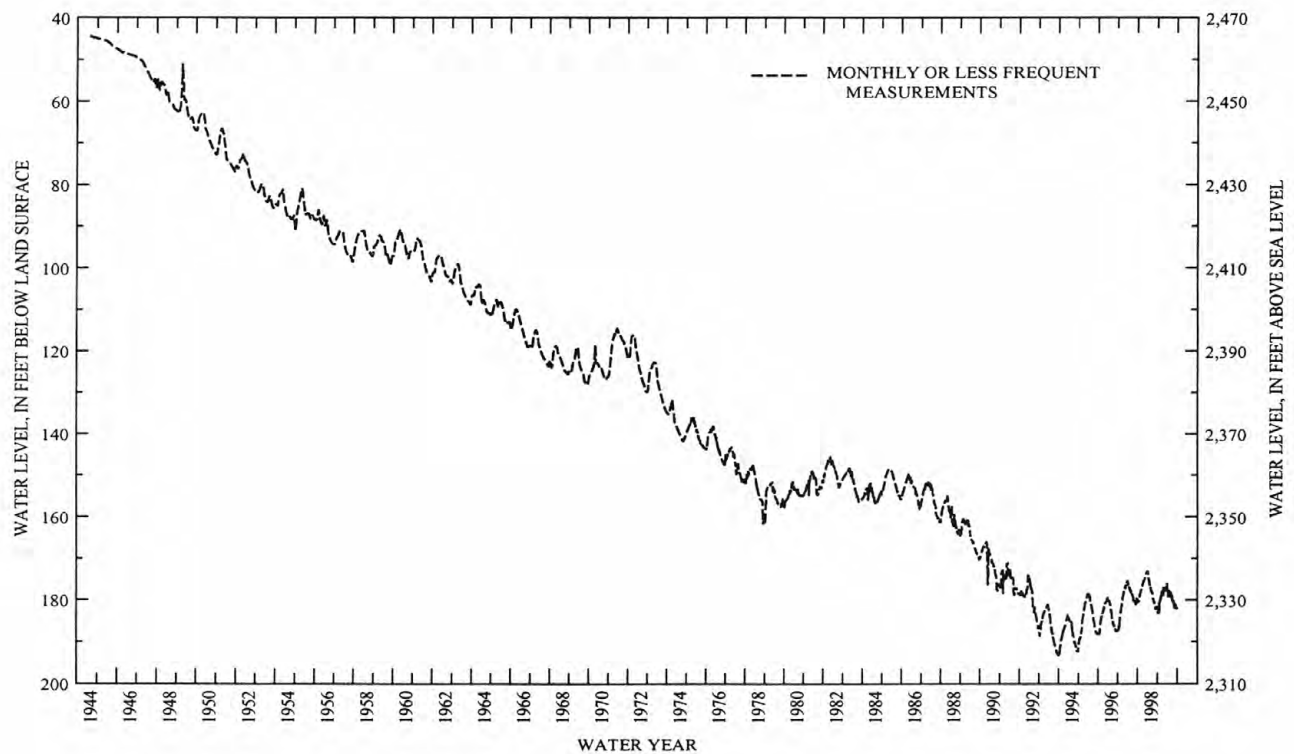
PERIOD OF RECORD.--1944, 1945 through 1949, every 5 days (unpublished and available in the files of the Nevada Division of Water Resources); 1950 through 1974, monthly; 1975 to current year, continuous (available in the files of the Nevada Division of Water Resources).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 44.30 ft below land-surface datum, May 15, 1944; lowest measured, 193.74 ft below land-surface datum, October 5, 1993.

WATER LEVELS, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	182.70	182.16	179.33	178.25	177.16	177.11	177.83	177.60	178.27	179.99	180.79	181.72
10	183.29	180.76	179.49	177.82	177.57	177.88	177.95	178.18	179.14	180.41	181.20	181.92
15	182.73	180.30	179.00	177.68	177.21	177.01	178.24	178.41	179.20	180.10	181.57	181.77
20	183.30	180.25	178.46	177.12	177.24	177.18	179.29	178.15	179.34	180.15	181.64	181.97
25	182.90	179.79	178.70	177.60	177.67	177.18	178.26	178.67	179.93	180.59	180.73	181.97
BOM	182.97	179.73	178.26	176.89	177.50	176.44	178.05	178.70	178.74	180.99	180.73	182.17

WATER YEAR 1999 HIGHEST 176.44 LOWEST 183.30



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

GROUND-WATER LEVELS

LAS VEGAS VALLEY

361704115121901. Local number, 212 S19 E61 19BC1. Local name, CNLV Deer Springs.

LOCATION.--Lat 36°17'04", long 115°12'14", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 16 inches, depth 650 ft.

INSTRUMENTATION.--Water-level recorder since August 1998, hourly.

DATUM.--Elevation of land-surface datum is 2,300 ft above sea level, from topographic map. Measuring point: top lip of casing, 1.86 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 126.82 ft below land-surface datum, February 22, 1999; lowest measured, 141.36 ft below land-surface datum, September 5, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139.63	137.90	134.39	130.49	128.19	126.89	128.53	129.10	131.45	134.92	137.42	140.44
2	139.53	137.71	134.26	130.36	128.14	126.92	128.58	128.98	131.54	135.09	137.70	140.53
3	139.43	137.61	134.10	130.29	128.04	126.87	128.56	128.92	131.67	135.27	137.81	140.60
4	139.51	137.46	133.97	130.23	127.98	126.92	128.52	129.01	131.76	135.43	137.90	140.73
5	139.57	137.29	133.87	130.14	127.99	127.00	128.47	129.07	131.85	135.61	137.91	140.79
6	139.54	137.19	133.73	130.03	127.94	126.99	128.41	129.09	131.87	135.77	138.00	140.80
7	139.52	137.11	133.68	129.89	127.84	127.00	128.46	129.06	131.90	135.94	138.13	140.82
8	139.51	136.95	133.50	129.84	127.77	127.08	128.48	129.04	131.98	136.09	138.27	140.86
9	139.47	136.92	133.43	129.77	127.65	127.07	128.51	129.10	132.06	136.12	138.44	140.91
10	139.39	136.89	133.36	129.65	127.61	127.14	128.53	129.23	132.18	136.07	138.60	140.95
11	139.36	136.74	133.18	129.51	127.60	127.17	128.52	129.34	132.32	136.00	138.70	140.98
12	139.36	136.70	133.02	129.45	127.49	127.28	128.53	129.38	132.46	135.95	138.75	141.02
13	139.30	136.61	132.85	129.45	127.40	127.35	128.53	129.42	132.61	135.84	138.80	141.02
14	139.26	136.46	132.69	129.41	127.29	127.40	128.58	129.55	132.80	135.69	138.79	140.97
15	139.26	136.33	132.64	129.29	127.31	127.43	128.65	129.65	132.98	135.56	138.84	140.97
16	139.35	136.20	132.53	129.19	127.29	127.52	128.71	129.76	133.15	135.51	138.97	140.97
17	139.35	136.02	132.36	129.15	127.26	127.61	128.79	129.86	133.23	135.43	139.10	140.96
18	139.24	135.96	132.16	129.09	127.21	127.73	128.87	129.91	133.23	135.38	139.19	140.91
19	139.15	135.90	131.99	129.02	127.18	127.80	128.94	130.01	133.20	135.41	139.33	140.87
20	139.07	135.77	131.90	128.94	127.16	127.83	128.94	130.14	133.22	135.46	139.49	140.88
21	139.03	135.63	131.94	129.02	127.01	127.90	128.93	130.23	133.32	135.60	139.58	140.86
22	139.07	135.53	131.75	129.07	127.10	127.95	129.02	130.33	133.53	135.78	139.64	140.83
23	139.03	135.44	131.66	128.89	127.07	127.98	129.14	130.47	133.72	135.94	139.75	140.74
24	138.95	135.33	131.54	128.76	127.00	128.06	129.19	130.58	133.88	136.09	139.84	140.62
25	138.85	135.27	131.35	128.67	126.93	128.07	129.19	130.69	134.02	136.24	139.94	140.51
26	138.83	135.14	131.13	128.64	126.92	128.07	129.16	130.83	134.20	136.43	140.02	140.42
27	138.77	134.97	131.02	128.58	126.92	128.19	129.15	130.95	134.35	136.61	140.12	140.40
28	138.62	134.78	130.93	128.49	126.91	128.30	129.12	131.01	134.49	136.80	140.23	140.47
29	138.42	134.68	130.82	128.38	---	128.38	129.20	131.07	134.61	136.95	140.23	140.47
30	138.26	134.55	130.68	128.27	---	128.39	129.19	131.20	134.76	137.07	140.27	140.39
31	138.12	---	130.54	128.16	---	128.44	---	131.34	---	137.17	140.35	---
MAX	139.63	137.90	134.39	130.49	128.19	128.44	129.20	131.34	134.76	137.17	140.35	141.02
MIN	138.12	134.55	130.54	128.16	126.91	126.87	128.41	128.92	131.45	134.92	137.42	140.39

WATER YEAR 1999 HIGH 126.87 MAR 3 LOW 141.02 SEP 12-13

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

GROUND-WATER LEVELS

LAS VEGAS VALLEY--Continued

361456115111001. Local number, 212 S19 E61 32CC1. Local name, CNLV Allen and Lone Mountain Well.

LOCATION.--Lat 36°14'55", long 115°11'16", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, depth 650 ft.

INSTRUMENTATION.--Water-level recorder since August 1998, hourly.

DATUM.--Elevation of land-surface datum is 2,190 ft above sea level, from topographic map. Measuring point: top lip of casing, 1.69 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 138.00 ft below land-surface datum, June 9, 1999; lowest, 144.88 ft below land-surface datum, October 5, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144.73	144.34	143.40	142.28	141.24	140.22	139.31	138.66	138.14	138.14	138.40	138.78
2	144.69	144.30	143.35	142.25	141.20	140.18	139.29	138.57	138.10	138.13	138.48	138.80
3	144.67	144.30	143.27	142.26	141.10	140.07	139.24	138.50	138.11	138.15	138.48	138.83
4	144.76	144.27	143.24	142.25	141.01	140.05	139.24	138.54	138.11	138.20	138.47	138.88
5	144.83	144.18	143.24	142.18	141.04	140.07	139.26	138.59	138.12	138.25	138.45	138.90
6	144.81	144.16	143.19	142.11	141.01	139.99	139.23	138.56	138.09	138.27	138.47	138.90
7	144.81	144.16	143.28	142.04	140.95	139.94	139.23	138.49	138.05	138.29	138.51	138.93
8	144.79	144.07	143.20	142.07	140.90	139.98	139.23	138.43	138.03	138.30	138.52	138.95
9	144.78	144.10	143.20	142.07	140.81	139.92	139.21	138.42	138.04	138.28	138.50	138.97
10	144.76	144.12	143.21	142.01	140.87	139.90	139.21	138.44	138.05	138.27	138.49	138.97
11	144.81	144.07	143.13	141.91	140.95	139.84	139.15	138.43	138.07	138.26	138.53	139.00
12	144.82	144.08	143.08	141.86	140.88	139.89	139.13	138.37	138.09	138.25	138.56	139.05
13	144.76	144.06	143.01	141.90	140.79	139.86	139.12	138.31	138.09	138.22	138.55	139.06
14	144.69	143.97	142.91	141.89	140.68	139.78	139.13	138.33	138.08	138.16	138.53	139.04
15	144.67	143.91	142.93	141.79	140.67	139.71	139.13	138.34	138.06	138.15	138.57	139.06
16	144.76	143.86	142.92	141.71	140.64	139.71	139.10	138.37	138.06	138.17	138.62	139.09
17	144.81	143.79	142.82	141.72	140.59	139.70	139.07	138.37	138.08	138.16	138.64	139.12
18	144.75	143.83	142.70	141.68	140.53	139.71	139.05	138.31	138.10	138.19	138.61	139.12
19	144.72	143.86	142.61	141.62	140.52	139.68	139.00	138.28	138.09	138.20	138.63	139.13
20	144.71	143.83	142.62	141.54	140.55	139.62	138.91	138.27	138.06	138.19	138.67	139.20
21	144.71	143.76	142.75	141.54	140.46	139.62	138.84	138.25	138.05	138.21	138.66	139.22
22	144.74	143.70	142.66	141.58	140.52	139.59	138.83	138.25	138.09	138.24	138.66	139.23
23	144.71	143.67	142.66	141.48	140.46	139.53	138.86	138.28	138.11	138.25	138.68	139.21
24	144.63	143.63	142.68	141.42	140.40	139.53	138.87	138.29	138.11	138.23	138.69	139.22
25	144.55	143.64	142.62	141.35	140.31	139.48	138.85	138.27	138.09	138.25	138.70	139.22
26	144.54	143.57	142.53	141.36	140.31	139.42	138.81	138.25	138.10	138.27	138.70	139.20
27	144.54	143.50	142.50	141.39	140.32	139.45	138.75	138.24	138.13	138.28	138.72	139.23
28	144.52	143.41	142.47	141.38	140.28	139.49	138.66	138.19	138.17	138.31	138.76	139.35
29	144.41	143.45	142.40	141.34	---	139.45	138.69	138.15	138.17	138.34	138.77	139.37
30	144.38	143.46	142.32	141.27	---	139.34	138.70	138.17	138.15	138.35	138.77	139.33
31	144.40	---	142.24	141.19	---	139.30	---	138.17	---	138.34	138.79	---
MAX	144.83	144.34	143.40	142.28	141.24	140.22	139.31	138.66	138.17	138.35	138.79	139.37
MIN	144.38	143.41	142.24	141.19	140.28	139.30	138.66	138.15	138.03	138.13	138.40	138.78

WATER YEAR 1999 HIGH 138.03 JUN 8 LOW 144.83 OCT 5

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
LAS VEGAS SUBSIDANCE STUDY

361410115142601. Local number, 212 S20 E60 02CCBB1. Local name, USGS-PZD.

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, depth 697 ft.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above sea level, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 251.48 ft below land-surface datum, May 3, 1999; lowest, 328.85 ft below land-surface datum, October 1, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322.58	305.21	294.09	285.22	276.59	273.15	271.53	270.36	279.35	295.46	301.02	312.01
2	314.35	304.99	294.58	284.77	276.34	272.77	271.19	270.27	283.94	296.00	300.19	309.32
3	318.16	304.24	294.68	284.57	275.87	272.42	271.06	270.38	285.56	296.56	300.94	310.84
4	319.62	303.22	293.70	284.34	275.88	272.23	270.83	271.17	285.92	297.08	303.04	310.60
5	315.77	302.87	293.08	284.31	276.10	272.03	270.78	271.98	285.12	296.73	302.19	308.18
6	316.02	302.55	292.65	284.20	275.88	271.79	270.68	272.25	287.29	296.86	303.82	308.39
7	316.27	302.24	292.29	283.79	275.62	272.17	270.74	272.05	287.62	297.13	304.36	309.01
8	314.86	301.97	292.06	282.87	275.36	272.12	270.79	271.47	287.95	296.57	304.85	309.88
9	313.65	301.79	292.10	281.67	275.17	272.02	269.78	271.28	287.70	296.04	304.95	309.33
10	313.39	301.35	292.06	281.33	275.77	271.82	268.25	271.17	287.19	296.64	305.37	307.17
11	314.57	300.65	291.97	281.08	278.32	271.52	267.65	270.97	286.91	297.11	305.42	307.26
12	315.81	299.93	291.60	280.72	278.76	271.22	267.60	271.15	286.89	297.91	305.62	307.89
13	313.51	299.60	291.17	280.45	278.52	270.98	267.50	272.93	284.28	297.39	304.77	306.98
14	312.85	299.27	290.69	280.33	277.99	270.88	267.30	273.11	287.29	298.80	306.32	307.38
15	311.60	299.17	290.28	279.89	276.73	270.65	267.30	272.01	288.79	299.56	307.26	310.93
16	310.13	298.85	290.16	279.64	275.33	270.41	267.33	272.61	288.95	299.94	307.35	311.77
17	309.53	298.48	289.76	279.42	274.90	270.19	267.68	273.34	289.37	300.54	307.39	311.63
18	309.10	298.15	289.22	279.01	275.08	270.27	268.15	273.22	289.99	300.75	307.61	313.02
19	309.61	297.69	289.01	278.49	277.64	270.16	268.08	275.67	290.62	301.64	308.45	313.04
20	308.61	297.40	288.70	278.37	278.36	269.92	268.18	278.88	291.18	300.32	309.70	313.56
21	308.30	297.07	288.22	278.25	277.69	269.98	268.79	279.86	291.78	299.12	---	314.00
22	307.90	296.82	---	278.30	276.19	269.84	268.68	279.60	291.06	297.01	310.14	314.66
23	307.49	296.49	287.99	278.69	274.38	269.54	268.52	278.44	292.26	298.39	310.59	314.37
24	307.32	296.23	287.61	278.59	273.83	270.65	268.48	276.41	292.85	297.09	310.66	314.82
25	307.28	295.91	287.41	278.50	273.87	272.12	268.86	276.67	---	298.69	310.57	314.63
26	307.03	295.31	287.39	278.19	273.67	272.16	269.78	275.76	294.04	298.98	309.88	314.69
27	306.58	295.14	287.00	277.85	273.56	---	269.97	276.81	294.21	298.40	312.24	314.96
28	306.27	295.08	286.72	277.62	273.48	271.81	270.83	280.27	294.79	297.85	312.77	---
29	306.00	294.77	286.29	277.29	---	271.94	270.70	283.03	294.45	300.05	313.49	315.17
30	305.74	294.33	285.86	277.13	---	272.10	270.56	280.36	294.82	300.45	313.53	315.56
31	305.41	---	285.61	276.84	---	271.96	---	277.71	---	301.93	313.89	---
MAX	322.58	305.21	---	285.22	278.76	---	271.53	283.03	---	301.93	---	---
MIN	305.41	294.33	---	276.84	273.48	---	267.30	270.27	---	295.46	---	---

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS SUBSIDANCE STUDY

361410115142601. Local number, 212 S20 E60 02CCBB1. Local name, USGS-PZD.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312.12	292.43	281.57	273.07	---	259.33	257.82	252.37	256.81	281.50	288.18	300.31
2	306.89	291.86	281.24	272.83	265.36	259.08	257.60	251.95	261.52	281.73	288.77	300.76
3	305.38	290.98	280.82	272.65	264.88	258.63	257.37	251.63	267.29	282.36	289.27	301.34
4	303.94	290.13	282.13	272.45	264.50	258.69	257.25	251.71	265.06	282.76	290.38	301.81
5	303.54	289.48	282.21	272.07	264.46	258.85	257.23	252.00	262.08	282.64	291.41	302.13
6	302.99	289.14	280.81	271.70	264.30	259.72	257.03	253.23	263.61	282.86	291.98	301.96
7	302.48	288.85	280.83	272.90	263.97	260.86	256.95	254.02	264.05	282.13	292.04	302.12
8	302.05	288.34	280.31	273.99	263.67	261.21	256.91	254.00	265.48	283.14	292.72	302.94
9	301.67	288.17	280.66	272.06	263.30	261.14	256.83	254.07	267.57	282.36	292.82	303.20
10	301.31	287.95	280.78	271.27	263.24	261.29	256.97	254.22	268.08	282.44	291.47	303.59
11	301.13	287.53	279.50	270.70	263.31	260.74	256.77	254.22	269.95	283.39	291.47	304.01
12	300.88	287.30	279.01	270.33	262.94	260.74	256.73	253.68	272.81	282.62	290.33	304.44
13	300.00	286.98	278.61	270.41	262.50	260.59	256.69	253.32	272.11	---	290.46	299.84
14	298.66	286.49	278.12	270.15	262.03	260.29	256.69	253.30	272.95	278.30	290.55	298.83
15	297.75	286.05	278.00	269.63	261.89	260.00	256.64	253.24	272.24	277.93	290.94	298.80
16	297.72	285.72	277.81	269.23	261.71	259.05	256.54	253.41	272.86	280.83	291.30	300.34
17	297.55	285.28	277.34	269.09	261.43	257.69	256.42	253.68	274.97	281.36	291.62	302.78
18	297.09	285.18	276.78	268.85	261.17	257.51	256.33	253.54	275.42	282.06	292.69	303.05
19	296.68	285.06	276.33	268.53	261.01	257.26	256.27	253.45	276.20	282.50	294.48	304.49
20	296.33	284.78	276.23	268.15	260.99	256.90	256.18	253.46	276.58	284.43	294.44	303.53
21	296.08	284.48	276.45	267.99	260.60	256.75	256.05	253.41	277.02	285.56	294.88	303.60
22	295.88	284.19	264.52	267.98	260.63	257.58	256.07	253.41	277.42	286.18	294.97	304.63
23	295.58	283.98	275.80	267.54	261.17	258.51	256.21	253.49	276.85	286.82	294.69	305.02
24	295.11	283.69	275.66	267.18	262.10	258.79	256.26	254.29	277.18	287.12	294.31	305.85
25	294.68	283.51	275.32	266.87	260.94	258.73	255.93	255.78	277.49	287.36	295.23	306.04
26	294.38	283.02	274.85	266.76	259.95	258.60	255.69	256.40	277.95	288.20	296.13	306.20
27	294.11	282.57	274.58	266.72	259.86	258.68	254.95	256.54	278.54	287.69	298.49	306.68
28	293.77	282.31	274.38	266.54	259.65	258.78	252.87	256.52	279.25	287.82	299.10	307.19
29	293.24	282.17	274.00	266.27	---	258.65	252.71	256.50	280.62	288.34	299.49	307.72
30	292.95	281.96	273.51	265.93	---	258.24	252.65	256.63	281.06	288.50	299.32	304.23
31	292.83	---	273.11	265.53	---	257.93	---	256.72	---	287.01	300.00	---
MAX	312.12	292.43	282.21	273.99	---	261.29	257.82	256.72	281.06	---	300.00	307.72
MIN	292.83	281.96	264.52	265.53	---	256.75	252.65	251.63	256.81	---	288.18	298.80

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
LAS VEGAS SUBSIDANCE STUDY

361410115142602. Local number, 212 S20 E60 02CCBB2. Local name, USGS-PZM.

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, depth 467 ft.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above sea level, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 251.90 ft below land-surface datum, May 3, 1999; lowest, 311.46 ft below land-surface datum, October 1, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309.90	301.89	293.01	284.82	276.46	271.93	269.05	267.26	272.37	283.34	289.53	298.97
2	307.61	301.72	293.01	284.36	276.24	271.52	268.83	267.23	274.21	283.69	289.11	298.29
3	308.56	301.21	293.07	284.19	275.70	271.13	268.60	267.31	275.02	284.03	289.50	298.97
4	309.24	300.49	292.67	284.00	275.58	270.94	268.33	267.70	275.47	284.45	290.57	299.25
5	307.74	300.16	292.22	283.99	275.77	270.74	268.22	268.23	275.06	284.62	290.37	298.78
6	307.37	299.85	291.82	283.90	275.51	270.50	268.08	268.46	276.23	284.93	291.11	298.82
7	307.46	299.54	291.49	283.49	275.25	270.97	268.11	268.49	276.62	285.08	291.47	299.07
8	307.44	299.26	291.30	282.93	274.97	270.99	268.18	268.26	277.05	285.15	291.89	299.38
9	307.04	299.10	291.38	282.22	274.80	270.91	267.96	268.13	277.20	284.99	292.20	299.16
10	306.60	298.72	291.36	281.90	275.01	270.73	267.47	268.09	277.23	285.24	292.51	298.43
11	306.68	298.29	291.30	281.68	276.24	270.42	266.98	267.94	277.19	285.54	292.61	298.48
12	307.30	297.90	290.94	281.33	276.48	270.13	266.95	267.81	277.35	286.04	292.73	298.71
13	306.88	297.66	290.50	281.07	276.34	269.86	266.86	268.31	276.67	285.89	292.34	298.62
14	306.49	297.49	290.04	280.95	276.01	269.76	266.67	268.70	277.66	286.50	293.26	298.74
15	306.10	297.49	289.67	280.52	275.21	269.57	266.61	268.55	278.30	286.91	293.71	299.74
16	305.62	297.24	289.59	280.28	274.38	269.32	266.71	268.55	278.37	287.27	294.02	300.25
17	305.21	296.93	289.22	280.07	274.04	269.11	266.69	268.88	278.98	287.65	294.30	300.45
18	304.88	296.63	288.64	279.69	274.30	269.21	266.66	269.03	279.23	287.93	294.48	300.82
19	304.82	296.21	288.31	279.16	275.36	269.12	266.49	270.26	279.41	288.40	294.97	301.00
20	304.47	295.97	287.99	279.10	275.30	268.82	266.52	271.91	279.80	288.33	295.55	301.17
21	304.30	295.68	287.49	278.98	275.04	268.72	266.90	272.60	280.27	288.11	295.96	301.62
22	303.98	295.48	287.37	278.85	274.23	268.64	266.76	272.90	280.25	287.29	296.22	302.11
23	303.61	295.20	287.32	278.69	273.07	268.37	266.57	272.50	280.73	287.91	296.47	302.27
24	303.50	294.99	287.03	278.44	272.55	268.68	266.52	271.24	281.13	287.84	296.71	302.46
25	303.52	294.68	286.89	278.31	272.61	269.38	266.59	271.18	281.45	288.34	296.85	302.59
26	303.30	294.05	286.89	278.07	272.43	269.54	267.01	271.00	281.92	288.36	296.65	302.73
27	302.90	293.98	286.55	277.72	272.33	269.61	267.15	271.25	282.25	288.29	297.85	303.03
28	302.68	294.00	286.29	277.47	272.26	269.25	267.59	272.63	282.59	288.13	298.28	303.26
29	302.50	293.74	285.85	277.13	---	269.40	267.61	274.02	282.78	288.79	298.69	303.26
30	302.32	293.33	285.44	276.99	---	269.55	267.34	273.37	283.02	289.13	298.92	303.58
31	302.04	---	285.21	276.71	---	269.41	---	271.92	---	289.66	299.23	---
MAX	309.90	301.89	293.07	284.82	276.48	271.93	269.05	274.02	283.02	289.66	299.23	303.58
MIN	302.04	293.33	285.21	276.71	272.26	268.37	266.49	267.23	272.37	283.34	289.11	298.29

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS SUBSIDANCE STUDY

361410115142602. Local number, 212 S20 E60 02CCBB2. Local name, USGS-PZM.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302.86	290.68	281.82	274.25	267.11	260.96	257.44	252.76	252.34	267.58	275.54	285.38
2	301.16	290.32	281.50	274.05	266.90	260.69	257.31	252.35	254.07	267.90	276.00	285.75
3	300.31	289.88	281.13	273.92	266.43	260.11	257.12	252.04	256.77	268.38	276.34	286.20
4	299.56	289.38	281.53	273.74	266.05	259.94	257.01	252.10	256.21	268.88	276.85	286.65
5	299.29	288.85	281.61	273.37	266.03	259.98	257.01	252.26	255.06	269.22	277.39	286.99
6	298.83	288.59	280.77	272.98	265.88	260.27	256.83	252.80	255.74	269.56	277.85	287.18
7	298.38	288.37	280.86	273.05	265.56	260.81	256.75	253.12	255.92	269.52	278.24	287.44
8	298.00	287.91	280.45	273.66	265.28	261.08	256.71	253.02	256.57	270.02	278.62	287.85
9	297.65	287.80	280.51	272.85	264.90	260.96	256.55	253.04	257.57	270.02	278.81	288.14
10	297.33	287.66	280.58	272.38	264.95	260.91	256.53	253.16	258.03	270.19	278.36	288.44
11	297.22	287.29	279.83	271.88	265.15	260.53	256.26	253.13	258.77	270.52	278.38	288.81
12	297.00	287.12	279.43	271.55	264.79	260.59	256.17	252.74	260.21	270.58	277.81	289.25
13	296.34	286.83	279.08	271.54	264.34	260.44	256.11	252.44	260.48	---	277.87	287.93
14	295.49	286.37	278.61	271.42	263.86	260.12	256.09	252.45	260.90	269.31	277.95	287.39
15	295.02	285.97	278.54	270.94	263.71	259.81	256.01	252.40	260.90	268.85	278.26	287.35
16	295.05	285.68	278.39	270.56	263.54	259.32	255.88	252.51	261.18	269.88	278.63	287.80
17	294.93	285.26	277.96	270.45	263.27	258.56	255.73	252.63	262.04	270.19	278.83	288.58
18	294.50	285.19	277.44	270.23	263.01	258.43	255.59	252.43	262.57	270.57	279.37	288.86
19	294.11	285.11	277.02	269.93	262.84	258.19	255.46	252.30	263.02	270.85	280.50	290.01
20	293.82	284.83	276.96	269.55	262.84	257.86	255.30	252.28	263.42	271.51	280.85	289.99
21	293.61	284.45	277.25	269.40	262.45	257.71	255.11	252.21	263.77	272.13	281.10	289.87
22	293.49	284.11	---	269.42	262.51	257.99	255.09	252.19	264.28	272.62	281.36	290.62
23	293.18	283.88	276.66	268.99	262.47	258.32	255.21	252.26	264.43	272.99	281.48	290.84
24	292.72	283.60	276.55	268.66	262.79	258.43	255.26	252.30	264.67	273.26	281.55	291.25
25	292.31	283.48	276.24	268.36	262.10	258.31	255.02	252.39	264.91	273.57	281.99	291.53
26	292.11	283.10	275.78	268.26	261.60	258.12	254.80	252.46	265.27	274.06	282.53	291.72
27	292.00	282.70	275.53	268.24	261.50	258.17	254.33	252.47	265.76	274.32	283.57	292.06
28	291.78	282.33	275.34	268.09	261.29	258.24	253.11	252.36	266.19	274.68	284.12	292.68
29	291.32	282.29	275.01	267.83	---	258.08	253.00	252.27	266.81	275.10	284.51	292.96
30	291.08	282.17	274.61	267.50	---	257.66	252.99	252.37	267.19	275.35	284.68	291.90
31	291.02	---	274.24	267.10	---	257.44	---	252.41	---	275.20	285.08	---
MAX	302.86	290.68	---	274.25	267.11	261.08	257.44	253.16	267.19	---	285.08	292.96
MIN	291.02	282.17	---	267.10	261.29	257.44	252.99	252.04	252.34	---	275.54	285.38

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
LAS VEGAS SUBSIDANCE STUDY

361410115142603. Local number, 212 S20 E60 02CCBB3. Local name, USGS-PZS.

LOCATION.--Lat 36°14'10", long 115°14'26", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, depth 320 ft.

INSTRUMENTATION.--Water-level recorder since November 1994, hourly.

DATUM.--Elevation of land-surface datum is 2,312 ft above sea level, from topographic map. Measuring point: top lip of casing, 1.36 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--November 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 221.14 ft below land-surface datum, May 13, 1999; lowest, 243.49 ft below land-surface datum, October 21, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	241.68	239.22	236.43	233.32	230.18	227.38	227.11	229.06	232.31	---	238.07
2	---	241.77	239.31	236.13	233.22	229.92	227.57	227.25	229.15	232.33	---	238.04
3	---	241.69	239.51	236.06	232.77	229.63	227.47	227.36	229.24	232.42	---	238.07
4	241.64	241.52	239.43	235.98	232.75	229.48	227.32	227.38	229.40	232.70	---	238.16
5	241.62	241.41	239.18	236.16	232.98	229.36	227.23	227.40	229.53	232.91	---	238.12
6	241.39	241.31	238.92	236.27	232.82	229.18	227.16	227.41	229.47	232.99	---	238.09
7	241.40	241.16	238.71	236.13	232.66	229.46	227.29	227.28	229.41	233.08	236.06	238.03
8	241.75	241.14	238.62	235.92	232.47	229.54	227.38	227.27	229.62	233.15	236.17	237.99
9	241.73	241.08	238.84	235.73	232.39	229.65	227.36	227.31	229.73	233.23	236.35	237.89
10	241.60	240.82	238.96	235.59	232.48	229.81	227.18	227.42	229.72	233.33	236.41	237.81
11	241.67	240.59	239.03	235.54	232.28	229.51	226.87	227.44	229.72	233.41	236.42	237.68
12	242.00	240.53	238.94	235.40	232.21	229.28	226.92	227.31	229.81	233.54	236.52	237.59
13	242.16	240.52	238.71	235.30	231.97	229.06	226.95	227.35	229.93	---	236.63	237.45
14	242.17	240.55	238.39	235.34	231.57	228.95	226.92	227.50	230.02	233.75	236.68	237.46
15	242.10	240.74	238.12	235.07	231.30	228.78	226.89	227.59	229.95	233.93	236.63	237.52
16	242.01	240.75	238.16	235.03	231.39	228.65	227.09	227.59	229.83	234.09	236.66	237.59
17	241.83	240.66	237.88	234.97	231.28	228.51	227.11	227.79	230.16	234.13	236.75	237.63
18	241.82	240.57	237.57	234.77	231.43	228.75	227.20	228.04	230.38	234.24	236.85	237.61
19	241.79	240.32	237.60	234.40	231.34	228.84	227.19	227.99	230.49	234.45	237.01	237.74
20	241.75	240.25	237.47	234.42	231.04	228.68	227.27	227.91	230.64	234.60	237.16	237.82
21	241.77	240.16	237.18	234.41	230.95	228.62	---	227.94	230.83	234.66	237.25	238.02
22	241.70	240.16	237.16	234.42	230.79	228.61	227.05	228.01	231.02	---	237.35	238.22
23	241.57	240.07	237.23	234.39	230.57	228.44	226.93	228.19	231.07	---	237.37	238.27
24	241.65	240.04	237.13	234.33	230.26	228.25	226.89	228.39	231.20	---	237.41	238.27
25	241.85	239.88	237.23	234.26	230.41	228.17	226.84	228.30	---	---	237.53	238.17
26	241.93	239.36	237.43	234.16	230.32	228.07	227.06	228.31	231.50	---	237.61	238.20
27	241.72	239.46	237.29	233.94	230.34	227.95	227.13	228.51	231.71	---	237.79	238.35
28	241.70	239.62	237.26	233.79	230.38	227.53	227.15	228.59	231.86	---	237.98	238.39
29	241.67	239.61	237.05	233.58	---	227.60	227.15	228.67	232.05	---	238.12	238.29
30	241.71	239.37	236.80	233.55	---	227.71	227.13	228.80	232.19	---	238.16	238.43
31	241.62	---	236.67	233.45	---	227.60	---	229.04	---	---	238.15	---
MEAN	---	240.56	238.10	235.00	231.70	228.83	---	227.82	---	---	---	237.97
MAX	---	241.77	239.51	236.43	233.32	230.18	---	229.04	---	---	---	238.43
MIN	---	239.36	236.67	233.45	230.26	227.53	---	227.11	---	---	---	237.45

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS SUBSIDANCE STUDY

361410115142603. Local number, 212 S20 E60 02CCBB3. Local name, USGS-PZS.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238.49	237.99	235.43	231.77	228.62	225.41	223.36	221.99	221.72	225.47	229.43	232.58
2	238.55	237.93	235.27	231.70	228.54	225.30	223.29	221.63	221.60	225.62	229.68	232.63
3	238.38	238.00	235.06	231.74	228.28	225.03	223.17	221.45	221.56	225.85	229.78	232.79
4	238.62	237.88	234.94	231.74	228.00	224.93	223.13	221.63	221.57	226.16	229.86	232.96
5	238.86	237.60	234.99	231.58	227.98	225.01	223.19	221.71	221.60	226.48	229.84	233.06
6	238.81	237.58	234.88	231.40	227.86	224.80	223.17	221.68	221.59	226.70	229.88	233.11
7	238.72	237.67	235.15	231.14	227.61	224.68	223.22	221.53	221.58	226.94	230.07	233.20
8	238.73	237.35	234.95	231.21	227.43	224.86	223.25	221.42	221.58	227.06	230.24	233.34
9	238.76	237.40	234.91	231.21	227.15	224.71	223.11	221.46	221.72	227.01	230.31	233.48
10	238.76	237.46	234.94	231.01	227.23	224.69	223.12	221.59	221.79	226.85	230.44	233.59
11	238.94	237.30	234.74	230.72	227.46	224.58	223.10	221.62	221.95	226.87	230.53	233.71
12	239.08	237.28	234.53	230.52	227.25	224.76	223.28	221.43	222.17	226.91	230.68	233.94
13	238.99	237.22	234.30	230.62	226.97	224.71	223.18	221.22	222.30	---	230.77	234.02
14	238.82	237.02	233.94	230.65	226.68	224.55	223.26	221.35	222.46	226.41	230.89	233.97
15	238.68	236.82	233.97	230.43	226.66	224.38	223.26	221.48	222.51	226.32	231.13	234.03
16	238.93	236.74	233.95	230.21	226.61	224.39	223.28	221.63	222.70	226.45	231.41	234.13
17	239.11	236.54	233.70	230.20	226.42	224.37	223.37	221.75	222.88	226.61	231.51	234.25
18	239.02	236.66	233.33	230.12	226.24	---	223.38	221.69	223.09	226.87	231.51	234.30
19	238.95	236.76	233.00	229.97	226.17	224.36	223.28	221.53	223.24	227.19	231.58	234.31
20	238.90	236.72	233.01	229.71	226.28	224.20	223.01	221.50	223.36	227.40	231.77	234.54
21	238.92	236.52	233.39	229.68	226.11	224.18	222.72	221.46	223.47	227.63	231.81	234.67
22	239.05	236.31	233.12	229.78	226.32	224.11	222.71	221.54	223.78	227.87	231.92	234.67
23	239.00	236.23	233.11	229.50	226.11	223.88	222.80	221.69	224.02	228.06	231.89	234.47
24	238.80	236.08	233.14	229.31	225.91	223.87	222.77	221.76	224.19	228.21	231.81	234.46
25	238.59	236.13	232.98	229.15	225.65	223.80	---	221.71	224.31	228.44	231.94	234.55
26	238.56	235.91	232.64	229.08	225.66	223.65	222.44	221.62	224.49	228.62	232.03	234.62
27	238.59	235.70	232.47	229.09	225.71	223.79	222.38	221.53	224.77	228.78	232.14	234.79
28	238.52	235.47	232.38	229.05	225.66	223.96	222.16	221.48	225.00	228.96	232.34	235.25
29	238.30	235.57	232.16	228.91	---	223.90	222.25	221.47	225.21	229.12	232.45	235.35
30	238.21	235.60	231.91	228.74	---	223.56	222.23	221.55	225.35	229.21	232.53	235.25
31	238.18	---	231.65	228.49	---	223.40	---	221.67	---	229.27	232.56	---
MEAN	238.74	236.85	233.80	230.27	226.88	---	---	221.57	222.92	---	231.12	234.00
MAX	239.11	238.00	235.43	231.77	228.62	---	---	221.99	225.35	---	232.56	235.35
MIN	238.18	235.47	231.65	228.49	225.65	---	---	221.22	221.56	---	229.43	232.58

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
LAS VEGAS VALLEY

361232115061001. Local number, 212 S20 E61 13ABDA1. Local name, CNLV Diana Terrace.

LOCATION.--Lat 36°12'57", long 115°06'16", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled public supply well, diameter 28.5 inches, depth 1,230 ft, cased to 1,039 ft, perforated 102 to 1,039.

INSTRUMENTATION.--Water-level recorder since January 1999, hourly.

DATUM.--Elevation of land-surface datum is 1,857 ft above sea level, from topographic map. Measuring point: pipe on west side of pump base, .50 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--February 1973 through 1985, yearly; 1986, monthly; 1989 to 1998 yearly; January to September 1999, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.70 ft below land-surface datum, April 2, 1995; lowest, 82.64 ft below land-surface datum, September 12, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	46.51	46.41	46.24	46.15	49.49	53.07	50.08	48.42
2	---	---	---	---	46.50	46.39	46.23	46.11	49.80	53.09	49.97	48.40
3	---	---	---	---	46.48	46.35	46.21	46.10	50.09	53.14	49.87	48.37
4	---	---	---	---	46.46	46.34	46.23	46.15	50.34	53.21	49.76	48.33
5	---	---	---	---	46.48	46.35	46.23	46.24	50.57	53.27	49.66	48.30
6	---	---	---	---	46.48	46.31	46.22	46.28	50.77	53.33	49.58	48.28
7	---	---	---	---	46.46	46.29	46.23	46.30	50.95	53.54	49.50	48.27
8	---	---	---	---	46.45	46.29	46.22	46.34	51.14	53.60	49.42	48.25
9	---	---	---	---	46.43	46.27	46.23	46.39	51.29	53.48	49.34	48.23
10	---	---	---	---	46.47	46.27	46.22	46.45	51.39	53.38	49.27	48.21
11	---	---	---	---	46.50	46.30	46.20	46.48	51.49	53.41	49.22	48.19
12	---	---	---	---	46.48	46.36	46.20	46.48	51.68	53.46	49.17	48.18
13	---	---	---	---	46.45	46.35	46.20	46.49	51.80	53.50	49.10	48.16
14	---	---	---	---	46.42	46.33	46.21	46.52	51.92	53.46	49.04	48.14
15	---	---	---	---	46.44	46.30	46.21	46.55	52.02	53.46	49.01	48.12
16	---	---	---	---	46.43	46.30	46.20	46.60	52.09	53.49	48.97	48.11
17	---	---	---	---	46.42	46.30	46.21	46.62	52.17	53.52	48.92	48.10
18	---	---	---	---	46.41	46.35	46.20	46.61	52.24	53.55	48.86	48.08
19	---	---	---	---	46.42	46.37	46.18	46.62	52.30	53.53	48.83	48.06
20	---	---	---	---	46.44	46.35	46.15	46.65	52.44	53.25	48.80	48.06
21	---	---	---	---	46.41	46.35	46.14	46.67	52.50	52.78	48.75	48.04
22	---	---	---	46.53	46.43	46.35	46.17	46.70	52.57	52.34	48.71	48.03
23	---	---	---	46.50	46.45	46.32	46.18	46.73	52.69	51.96	48.69	48.00
24	---	---	---	46.50	46.51	46.31	46.18	46.75	52.74	51.64	48.66	47.99
25	---	---	---	46.50	46.51	46.29	46.17	46.75	52.79	51.35	48.63	47.97
26	---	---	---	46.50	46.50	46.27	46.16	46.81	52.89	51.10	48.60	47.96
27	---	---	---	46.52	46.48	46.28	46.14	47.17	52.95	50.88	48.58	47.95
28	---	---	---	46.53	46.45	46.29	46.12	47.69	52.99	50.68	48.56	47.97
29	---	---	---	46.53	---	46.26	46.15	48.19	53.04	50.51	48.53	47.94
30	---	---	---	46.51	---	46.24	46.16	48.67	53.04	50.34	48.49	47.91
31	---	---	---	46.49	---	46.23	---	49.11	---	50.19	48.46	---
MAX	---	---	---	---	46.51	46.41	46.24	49.11	53.04	53.60	50.08	48.42
MIN	---	---	---	---	46.41	46.23	46.12	46.10	49.49	50.19	48.46	47.91

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

361400115040901. Local number, 212 S20 E62 05CAAA1. Local Name CNLV Wilshire.

LOCATION.--Lat 36°14'00", long 115°04'09", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Abandoned production well, diameter 15 inches, depth 1,000 ft.

INSTRUMENTATION.--Water-level recorder since August 1998, hourly.

DATUM.--Elevation of land-surface datum is 1,869 ft above sea level, from topographic map. Measuring point: hole in top of casing, 1.5 ft above land-surface datum.

REMARKS.--In Las Vegas Valley.

PERIOD OF RECORD.--February 1973 to July 1998, intermittent, August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.56 ft below land-surface datum, May 12, 13, 1999; lowest measured, 157.36 ft below land-surface datum, September 15, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83.27	82.32	78.01	74.99	73.05	72.52	71.11	70.78	71.14	73.63	76.00	79.15
2	83.25	82.18	77.86	74.94	73.01	72.44	71.10	70.71	71.13	73.74	76.08	79.32
3	83.22	82.03	77.73	74.89	72.96	72.29	71.07	70.65	71.16	73.88	76.13	79.54
4	83.42	81.91	77.62	74.81	72.93	72.22	71.08	70.71	71.19	74.06	76.17	79.75
5	83.66	81.69	77.58	74.68	73.01	72.21	71.11	70.76	71.24	74.20	76.20	79.76
6	83.73	81.51	77.52	74.55	73.06	72.11	71.07	70.74	71.26	74.29	76.25	79.71
7	83.89	81.32	77.54	74.45	73.06	72.04	71.07	70.68	71.28	74.41	76.30	79.87
8	83.97	81.13	77.42	74.44	73.04	72.04	71.09	70.63	71.31	74.49	76.35	80.02
9	84.01	81.05	77.35	74.43	72.94	71.95	71.07	70.62	71.36	74.56	76.36	80.20
10	84.11	80.90	77.28	74.35	72.97	71.90	71.08	70.65	71.42	74.65	76.37	80.39
11	84.08	80.71	77.15	74.26	73.02	71.82	71.04	70.65	71.52	74.72	76.44	80.67
12	83.95	80.61	77.07	74.25	72.94	71.84	71.02	70.62	71.62	74.79	76.48	81.00
13	83.78	80.43	76.97	74.30	72.87	71.79	71.02	70.59	71.69	74.83	76.47	81.26
14	83.68	80.24	76.80	74.31	72.79	71.70	71.02	70.64	71.76	74.84	76.47	81.35
15	83.50	80.12	76.74	74.22	72.78	71.61	71.02	70.66	71.83	74.90	76.51	81.53
16	83.47	79.96	76.65	74.14	72.73	71.58	71.01	70.71	71.91	74.98	76.56	81.71
17	83.43	79.76	76.50	74.09	72.67	71.56	70.99	70.73	72.02	75.04	76.58	81.82
18	83.39	79.71	76.36	74.00	72.65	71.55	70.98	70.70	72.13	75.11	76.56	82.03
19	83.38	79.71	76.24	73.90	72.67	71.51	70.95	70.69	72.23	75.17	76.61	82.10
20	83.40	79.60	76.17	73.76	72.74	71.44	70.88	70.71	72.33	75.21	76.67	82.14
21	83.40	79.47	76.19	73.69	72.71	71.43	70.84	70.74	72.41	75.28	76.66	82.11
22	83.38	79.37	76.03	73.66	72.82	71.38	70.85	70.78	72.55	75.42	76.65	82.02
23	83.22	79.22	75.98	73.53	72.81	71.31	70.88	70.84	72.69	75.49	76.68	82.03
24	83.16	79.08	75.93	73.43	72.77	71.30	70.90	70.87	72.80	75.53	76.70	82.07
25	83.05	78.96	75.83	73.33	72.71	71.26	70.90	70.90	72.89	75.58	76.72	82.10
26	83.03	78.77	75.66	73.32	72.71	71.22	70.87	70.95	73.03	75.64	76.91	82.18
27	83.09	78.57	75.54	73.33	72.70	71.23	70.82	71.00	73.20	75.72	77.30	82.39
28	83.00	78.39	75.44	73.32	72.63	71.25	70.75	71.02	73.36	75.79	77.74	82.74
29	82.78	78.30	75.30	73.27	---	71.20	70.78	71.04	73.47	75.84	78.13	82.90
30	82.66	78.18	75.15	73.17	---	71.11	70.80	71.08	73.55	75.88	78.51	83.03
31	82.53	---	75.01	73.06	---	71.08	---	71.13	---	75.92	78.93	---
MAX	84.11	82.32	78.01	74.99	73.06	72.52	71.11	71.13	73.55	75.92	78.93	83.03
MIN	82.53	78.18	75.01	73.06	72.63	71.08	70.75	70.59	71.13	73.63	76.00	79.15

WATER YEAR 1999 HIGH 70.56 MAY 13 LOW 84.11 OCT 10

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

LAS VEGAS VALLEY--Continued

360349115100001. Local number, 212 S22 E61 04BCB1; previously published as 212 S22 E61 04BCC 1.

LOCATION.--Lat 36°04'40", long 115°10'14", Hydrologic Unit 15010015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 8 in., depth 355 ft.

INSTRUMENTATION.--Water level recorder since July 1997, hourly

DATUM.--Elevation of land-surface datum is 2,219 ft above sea level, from topographic map. Measuring point: Hole in top of casing, 0.8 ft above land-surface datum.

REMARKS.--Annual ground-water network; weekly measurements with steel tape supplied by Office of Nevada State Engineer and U.S. Geological Survey personnel.

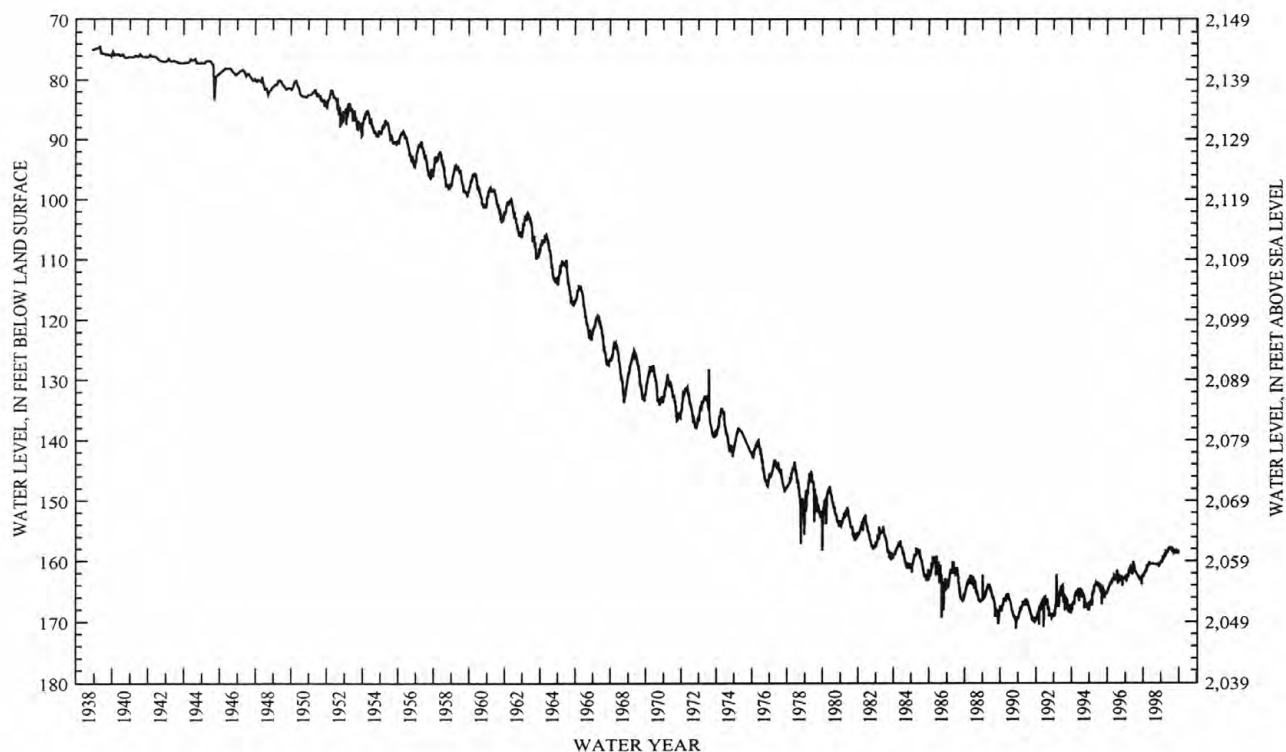
PERIOD OF RECORD.--1938 (unpublished and available in the files of the U.S. Geological Survey); January 1939 through December 1950, monthly; January 1951 through June 1978, continuous (unpublished and available in the files of the Nevada Division of Water Resources); July 1978 to June 1997, weekly, July 1997 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.40 ft below land-surface datum, January 25, 1939; lowest measured, 183.36 ft below land-surface datum, June 15, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	160.48	159.78	159.26	159.03	158.35	158.06	158.00	157.97	158.21	158.74	158.39	158.47
10	160.18	159.83	159.52	158.85	158.35	158.08	158.13	157.95	158.19	158.71	158.43	158.43
15	159.97	159.62	159.18	158.66	158.30	157.97	158.14	157.90	158.29	158.32	158.48	158.42
20	160.20	159.66	158.79	158.42	158.34	158.11	157.91	157.97	158.35	158.35	158.49	158.46
25	160.02	159.54	159.20	158.34	158.13	158.05	157.94	158.18	158.43	158.40	158.42	158.31
BOM	159.94	159.42	158.74	158.40	158.24	157.86	157.88	158.22	158.60	158.41	158.42	158.36

WATER YEAR 1999 HIGH 157.68 MAY 3 LOW 160.48 OCTOBER 5



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

CARBONATE ROCK STUDY AREA

COYOTE SPRING VALLEY

364743114533101. Local number, 210 S13 E63 23DDDC1.

LOCATION.--Lat 36°47'45", long 114°53'30", Hydrologic Unit 15010012, in Clark County.

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 current year, hourly.

DATUM.--Elevation of land-surface datum is 2,173 ft from land survey. 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, 1997, 1998, intermittent; July 1986 to September 1986, hourly, (unpublished and available in the files of the U.S. Geological Survey); October 1986 to September 1988, hourly; September 1988 to December 1990, monthly; December 1990 to September 1996, hourly; February 1999 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 350.00 ft below land-surface datum, December 4, 1985; lowest reported, 354.00 ft below land-surface datum, December 12, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	352.42	352.32	352.40	352.39	352.47	352.71	---
2	---	---	---	---	---	352.42	352.34	352.29	352.36	352.46	352.78	---
3	---	---	---	---	---	352.31	352.31	352.24	352.40	352.48	352.77	---
4	---	---	---	---	---	352.33	352.34	352.35	352.43	352.55	352.74	---
5	---	---	---	---	---	352.43	352.40	352.46	352.49	352.62	352.70	---
6	---	---	---	---	---	352.36	352.37	352.43	352.45	352.61	352.72	---
7	---	---	---	---	---	352.32	352.39	352.33	352.40	352.63	352.77	---
8	---	---	---	---	---	352.44	352.44	352.27	352.39	352.68	352.79	---
9	---	---	---	---	---	352.40	352.42	352.29	352.41	352.69	352.75	---
10	---	---	---	---	---	352.42	352.47	352.37	352.43	352.68	352.74	---
11	---	---	---	---	---	352.37	352.39	352.39	352.47	352.67	352.80	---
12	---	---	---	---	---	352.49	352.39	352.32	352.50	352.68	352.83	---
13	---	---	---	---	---	352.48	352.41	352.24	352.49	352.66	352.80	---
14	---	---	---	---	---	352.40	352.46	352.32	352.47	352.60	352.75	---
15	---	---	---	---	---	352.33	352.48	352.36	352.43	352.61	352.80	---
16	---	---	---	---	---	352.36	352.46	352.43	352.44	352.65	352.88	---
17	---	---	---	---	---	352.41	352.44	352.45	352.47	352.65	352.88	---
18	---	---	---	---	---	352.47	352.42	352.37	352.49	352.67	---	---
19	---	---	---	---	352.50	352.46	352.37	352.33	352.47	352.68	---	---
20	---	---	---	---	352.55	352.39	352.27	352.36	352.43	352.66	---	---
21	---	---	---	---	352.46	352.42	352.21	352.35	352.41	352.68	---	---
22	---	---	---	---	352.59	352.39	352.25	352.36	352.47	352.71	---	---
23	---	---	---	---	352.53	352.34	352.33	352.42	352.51	352.71	---	---
24	---	---	---	---	352.45	352.39	352.40	352.45	352.48	352.67	---	---
25	---	---	---	---	352.37	352.36	352.40	352.42	352.45	352.69	---	---
26	---	---	---	---	352.44	352.30	352.36	352.42	352.45	352.70	---	---
27	---	---	---	---	352.50	352.36	352.29	352.42	352.51	352.71	---	---
28	---	---	---	---	352.49	352.45	352.21	352.38	352.55	352.74	---	---
29	---	---	---	---	---	352.39	352.33	352.34	352.54	352.75	---	---
30	---	---	---	---	---	352.24	352.42	352.39	352.49	352.73	---	---
31	---	---	---	---	---	352.25	---	352.43	---	352.70	---	---
MAX	---	---	---	---	---	352.49	352.48	352.46	352.55	352.75	---	---
MIN	---	---	---	---	---	352.24	352.21	352.24	352.36	352.46	---	---

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 003, Clark; 017, Lincoln.

Water-use codes: I, irrigation; S, stock; U, unused.

Depths, perforated interval, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Elevation is that of LSD, with reference to sea level.

Water Levels: Levels above LSD are listed as negative values.

Water Level Method: S, steel tape; V, calibrated electric-tape measurement.

Locations of following sites are shown in figures 20.

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
						Top	Bottom		Date	Feet	Method
209 S03 E60 13DACD1	374058115113501	1990-99	017	U	479.			4057.	01/07/1999	210.77	S
209 S04 E60 14BBBB1	373531115123201	1960-99	017	I	400.			3912.	01/07/1999	81.13	S
209 S04 E60 23CBBC1	373500115133301	1990-99	017	U	385.			3865.	01/07/1999	23.06	S
209 S04 E61 28CD 1	373405115090001	1968-99	017		980.	1200.	1300.	4230.	08/23/1999	586.21	V
209 S05 E60 05CCCB1	373215115165801	1999	017	S	400.			4165.	08/26/1999	366.16	V
209 S06 E61 32CD 1	372248115101001	1963-99	017	U	97.			3445.	12/29/1998	62.81	S
									01/07/1999	66.64	S
209 S07 E61 08CAAD1	372115115095401	1949-99	017	I	44.			3440.	12/29/1998	14.94	S
209 S08 E61 02C 1	371640115072001	1992-99	017	U	92.			3020.	03/02/1999	18.22	S
209 S08 E62 31CAAB1	371243115050601	1963-99	017	U	64.			3193.	12/29/1998	22.67	S
210 S12 E63 29DABC1	365227114554401	1992-99	017	U	1221.			2466.9	08/12/1999	609.65	V
210 S13 E63 11BACD1	365008114541101	1981-99	003	U	170.			2222.	08/12/1999	163.44	S
210 S13 E63 26AAAA1	364741114532801	1991-99	003	U	628.	121.		2170.	08/13/1999	349.81	V
211 S16 E57 29A 1	363205115335601	1999	003	U	353.	240.	353.	3200.	05/13/1999	114.74	S
217 S16 E63 09DDAB1	363308114553001	1989-99	003	U				2648.8	08/12/1999	831.70	V

LAS VEGAS VALLEY

WATER USE: A, air conditioning; C, commercial; D, dewater; H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused.

WATER LEVEL: Levels above LSD (land-surface datum) are listed as negative values.

WATER-LEVEL STATUS: D, site was dry (no water-level recorded); F, the site was flow, but the head could not be measured; J, injector site monitor (nearby site that taps the same aquifer is injecting recharge water); P, site was being pumped (no water-level is recorded); R, the same site had been pumped recently; S, nearby site that taps the same aquifer was being pumped; T, nearby site that taps the same aquifer has been pumped recently.

WATER-LEVEL METHOD: G, pressure gage; S, steel tape; T, electric tape; V, calibrated electric tape; Z, water-levels reported by Nevada State Engineer.

The following sites are shown in figure 20.

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S16 E58 14A 1	363332115244001	U	957.	3579.	12/15/1998	815.67	T	
					05/18/1999	815.48	T	
212 S17 E58 14BCBA1	362830115270501	P	300.	3180.	10/14/1998	212.72	S	
					12/09/1998	212.92	T	
					01/21/1999	212.76	S	
					05/18/1999	212.64	S	
					06/16/1999	212.65	T	
212 S17 E59 20BD 1	362750115244001	S	300.	2950.	07/20/1999	212.44	S	
					10/14/1998	27.19	S	
					01/21/1999	27.04	S	
					05/18/1999	26.86	S	
					07/20/1999	26.98	S	
212 S19 E60 04DAB 2	361939115154801	I	780.	2454.	10/14/1998	99.14	S	
					01/21/1999	93.90	S	
					05/18/1999	95.58	S	
					07/20/1999	96.48	R	
212 S19 E60 09BCC 1*	361843115161001	U	830.	2510.	10/14/1998	182.72	S	
					01/21/1999	178.55	S	
					05/18/1999	178.40	S	
					07/20/1999	180.20	S	
212 S19 E60 12DB 1	361806115122701	H	240.	2350.	10/14/1998	147.07	R	T
					01/21/1999	146.61	R	V
					05/17/1999	147.39	V	
					07/20/1999	147.50	R	V
212 S19 E60 15CDA 1	361737115150501	U	400.	2370.	11/20/1998	138.10	S	
					03/16/1999	128.70	S	
					09/07/1999		P	
212 S19 E60 22BDD 1	361703115150601	S	400.	2360.	10/14/1998	154.43	S	
					01/21/1999	124.99	S	
					05/17/1999	145.50	R	S
					07/19/1999	153.12	S	
212 S19 E60 24CBC 1	361655115132101	H	380.	2315.	10/14/1998	156.36	S	
					01/21/1999	128.60	R	S
					05/17/1999	147.30	S	
					07/19/1999	156.84	S	
212 S19 E60 29BDD 1	361613115171401	H	303.	2530.	10/15/1998	208.44	R	S
					01/21/1999	202.60	S	
					05/17/1999	203.53	S	
					07/19/1999	205.78	S	
212 S19 E60 29DDDB1	361550115164801	H	400.	2462.	10/15/1998	156.13	S	
					01/21/1999	146.90	S	
					05/17/1999	150.11	R	S
					07/19/1999	152.90	R	S
212 S19 E60 34CC 1	361457115152701	U		2340.	11/20/1998	148.86	S	
					03/16/1999	139.52	S	
					09/07/1999	159.65	S	
					10/14/1998	153.84	S	
212 S19 E60 36CBB 1	361453115130301	P	330.	2290.	01/21/1999	140.78	S	
					05/17/1999	140.70	S	
					07/19/1999	147.10	S	
					10/13/1998	136.57	S	
212 S19 E61 19BC 1	361704115121901	A	650.	2300.	01/20/1999	128.93	S	
					02/22/1999	127.09	S	
					04/12/1999	128.56	S	
					05/17/1999	129.88	S	
					06/17/1999	133.22	S	

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S19 E61 19BC 1	361704115121901	A	650.	2300.	07/19/1999	135.43		S
					08/18/1999	139.18		S
212 S19 E61 21DDB 1	361626115090701	U	1300.	2160.	10/13/1998	45.70		S
					01/20/1999	45.19		S
					05/17/1999	45.49		S
					07/19/1999	46.13		S
					10/14/1998	128.85		S
212 S19 E61 31ADCD1	361514115112901	H	300.	2200.	01/20/1999	116.26		S
					05/17/1999	118.69		S
					07/19/1999	123.12		S
					10/13/1998	126.70		S
					01/20/1999	118.31	R	S
212 S19 E61 31ADDD1	361516115112301	P	360.	2185.	05/17/1999	130.75	R	S
					10/13/1998	144.78		S
					11/13/1998	144.05		S
					01/20/1999	141.57		S
					02/22/1999	140.53		S
212 S19 E61 32CC 1	361456115111001	A	650.	2190.	04/12/1999	139.16		S
					05/17/1999	138.41		S
					06/17/1999	138.08		S
					07/19/1999	138.20		S
					08/18/1999	138.64		S
					10/15/1998	82.37		S
					01/20/1999	81.29		S
					05/18/1999	80.43		S
					07/20/1999	80.06		S
					11/20/1998	92.42		S
212 S20 E60 02BD 1	361435115141401	U	300.	2310.	03/16/1999	88.12		S
					09/07/1999	92.50		S
					12/01/1997	293.99	J	V
212 S20 E60 02CCBB1	361410115142601	U	697.	2312.	12/12/1997	291.47	J	V
					12/22/1997	288.05	J	V
					01/08/1998	282.79	J	V
					02/13/1998	278.51	J	V
					02/26/1998	273.76	J	V
					03/24/1998	271.66	J	V
					03/27/1998	272.25	J	V
					03/27/1998	272.20	J	V
					04/23/1998	268.60	J	V
					05/12/1998	270.92	J	V
					06/11/1998	286.66	T	V
					06/25/1998	296.74	T	V
					06/25/1998	291.38	T	V
					07/13/1998	302.09	T	V
					08/05/1998	300.90	T	V
					08/20/1998	312.79	S	V
					08/21/1998	313.62	S	V
					09/14/1998	308.35	T	V
					09/28/1998	319.31	S	V
					09/28/1998	315.98	T	V
					10/29/1998	293.34	J	S
					11/25/1998	283.59	J	S
					12/22/1998	276.01	J	S
					01/21/1999	268.04	J	S
					02/01/1999	265.59	J	V
					02/01/1999	265.64	J	V
					02/08/1999	263.65	J	S
					02/10/1999	263.34	J	V
					02/10/1999	263.37	J	V
					02/22/1999	260.74	J	S
					02/28/1999	259.79	J	S
					03/18/1999	257.53	J	S
					03/29/1999	258.67	J	S
					04/11/1999	256.79	J	S
					04/28/1999	252.73	J	S
					05/05/1999	252.19	J	S

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)				
					Date	(Feet)	Status	Method	
212 S20 E60 02CCBB1	361410115142601	U	697.	2312.	05/28/1999	256.69	J	S	
					06/24/1999	279.81	S	S	
					07/13/1999	281.89	T	V	
					08/10/1999	294.43	T	S	
					09/27/1999	309.86	T	S	
212 S20 E60 02CCBB2	361410115142602	U	467.	2312.	12/01/1997	293.05	J	V	
					12/12/1997	290.84	J	V	
					01/08/1998	283.01	J	V	
					02/13/1998	276.34	J	S	
					02/26/1998	272.48	J	S	
					03/24/1998	269.11	J	V	
					03/27/1998	269.65	J	V	
					04/23/1998	266.63	J	V	
					05/12/1998	267.84	J	V	
					06/11/1998	277.44	T	V	
					06/25/1998	282.26	T	V	
					07/13/1998	287.11	T	V	
					08/05/1998	290.13	T	V	
					08/20/1998	296.29	S	V	
					09/14/1998	299.02	T	V	
					09/28/1998	304.26	S	V	
					10/29/1998	291.43	J	S	
					11/25/1998	283.56	J	S	
					12/22/1998	276.86	J	S	
					01/21/1999	269.44	J	S	
					02/08/1999	265.28	J	S	
					02/10/1999	264.98	J	V	
					02/10/1999	264.99	J	V	
					02/22/1999	262.47	J	S	
					02/28/1999	261.32	J	S	
					03/18/1999	258.38	J	S	
					03/29/1999	258.04	J	S	
					04/11/1999	256.22	J	S	
					04/28/1999	252.99	J	S	
					05/05/1999	252.30	J	S	
					05/28/1999	252.49	J	S	
					06/24/1999	265.42	S	S	
					07/13/1999	270.61	T	V	
					08/10/1999	279.17	T	S	
					09/27/1999	292.82	T	S	
212 S20 E60 02CCBB3	361410115142603	U	320.	2312.	12/01/1997	239.19	J	V	
					12/12/1997	238.86	J	V	
					01/08/1998	235.91	J	V	
					02/13/1998	231.94	J	S	
					02/26/1998	230.33	J	S	
					03/24/1998	228.17	J	V	
					03/27/1998	227.94	J	V	
					04/23/1998	226.96	J	V	
					05/12/1998	227.37	J	V	
					06/11/1998	229.76	T	V	
					06/25/1998	231.31	T	V	
					07/13/1998	233.76	T	V	
					08/05/1998	236.07	T	V	
					08/06/1998	236.19	T	V	
					08/06/1998	236.14	T	V	
					08/20/1998	237.19	S	V	
					09/14/1998	237.51	T	V	
					09/28/1998	238.46	S	V	
					10/29/1998	238.40	J	S	
					11/25/1998	236.20	J	S	
					12/22/1998	233.13	J	S	
					01/21/1999	229.73	J	S	
					02/08/1999	227.40	J	S	
					02/10/1999	227.26	J	V	

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S20 E60 02CCBB3	361410115142603	U	320.	2312.	02/22/1999	226.30	J	S
					02/28/1999	225.73	J	S
					03/18/1999	224.37	J	S
					03/29/1999	223.86	J	S
					04/11/1999	223.08	J	S
					04/28/1999	222.06	J	S
					05/05/1999	221.70	J	S
					05/28/1999	221.53	J	S
					06/24/1999	224.26	S	S
					07/13/1999	226.73	T	S
					08/10/1999	230.55	T	S
					09/27/1999	234.86	T	S
212 S20 E60 04CAD 1	361417115161301	H	500.	2380.	10/15/1998	343.29	R	T
					01/21/1999	323.94	R	V
					05/17/1999	307.03		V
					07/19/1999	316.86		V
212 S20 E61 01ACCD1	361425115061901	U	84.	1919.	10/13/1998	57.20		S
					10/14/1998	57.14		S
					01/20/1999	58.52		S
					05/17/1999	60.42		S
					07/19/1999	61.00		S
212 S20 E61 02DBB 1	361419115072201	U	785.	1900.	10/14/1998	45.84		S
					01/20/1999	48.12		S
212 S20 E61 03DAD 2	361412115080801	P	913.	1973.	10/15/1998	66.71		S
					01/20/1999	66.92		S
					05/18/1999	80.72		S
					07/20/1999	106.34		S
212 S20 E61 04BDCA1	361426115095001	U	270.	2103.	10/13/1998	82.67		S
					01/20/1999	81.43		S
					05/17/1999	80.12		S
					07/19/1999	79.61		S
212 S20 E61 04CDDD1	361346115095501	H	300.	2107.	10/05/1998	113.69		S
					10/19/1998	114.86		S
					11/02/1998	113.78		S
					11/09/1998	113.97		S
					11/30/1998	112.62		S
					12/14/1998	112.05		S
					12/21/1998	111.76		S
					12/28/1998	111.34		S
					01/04/1999	112.30		S
					01/11/1999	112.28		S
					01/19/1999	110.80		S
					02/01/1999	110.49		S
					02/08/1999	110.27		S
					03/01/1999	110.94		S
					03/09/1999	110.87		S
212 S20 E61 04CDDD1	361346115095501	H	300.	2107.	03/15/1999	111.35		S
					03/29/1999	110.92		S
					04/05/1999	109.26		S
					04/19/1999	109.72		S
					04/26/1999	109.33		S
					05/03/1999	110.36		S
					05/10/1999	108.99		S
					05/17/1999	108.87		S
					05/24/1999	109.29		S
					06/07/1999	110.30		S
					06/15/1999	111.72		S
					06/28/1999	111.50		S
					07/19/1999	113.23		S
					07/26/1999	111.26		S
					08/02/1999	114.51		S
212 S20 E61 04CDDD1	361346115095501	H	300.	2107.	08/09/1999	115.92		S
					08/16/1999	115.88		S
					08/23/1999	115.64		S
					08/30/1999	115.72		S
					09/13/1999	115.60		S

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S20 E61 06CBDD1	361346115115901	D	1000.	2211.	09/20/1999	114.56		S
					09/27/1999	113.65		S
					10/14/1998	104.62		S
					01/20/1999		P	
					05/17/1999	79.55		S
212 S20 E61 11CDDC1	361305115073201	U	62.	1920.	07/19/1999	86.93		S
					10/14/1998	20.38		S
					01/20/1999	21.70		S
					05/17/1999	23.45		S
					07/19/1999	23.96		S
212 S20 E61 13ABDB1	361232115061001	P	1230.	1857.	10/14/1998	49.22		S
					01/20/1999	46.53		S
					01/22/1999	46.53		S
					02/01/1999	46.53		S
					02/22/1999	46.42		S
					03/19/1999	46.39		S
					04/12/1999	46.21		S
					05/17/1999	46.63		S
					06/17/1999	52.22		S
					07/19/1999	53.52		S
					08/09/1999	49.33		S
212 S20 E61 13ACD 1	361222115061501	U	560.	1847.	08/18/1999	48.86		S
					11/20/1998	35.52		S
					03/16/1999	34.50		S
					09/07/1999	35.90		S
					10/14/1998	23.64		S
212 S20 E61 14CCCC1	361212115065901	U	46.	1910.	01/22/1999	22.42		S
					05/17/1999	21.32		S
					07/19/1999	20.93		S
					11/20/1998	62.63		S
					03/16/1999	51.65		S
212 S20 E61 20BC 1	361145115111401	U	385.	2130.	09/07/1999	58.90		S
					10/14/1998	51.30		S
					01/22/1999	46.07		S
212 S20 E61 21BAAB1	361147115094001	P	397.	2064.	05/17/1999	41.25		S
					07/19/1999	42.15		S
					10/14/1998	35.04		S
					01/22/1999	24.75		S
					05/17/1999	14.20		S
212 S20 E61 22BCDD1	361141115085001	P	1000.	2019.	07/19/1999	18.27		S
					01/20/1999		F	
					11/20/1998	10.76		S
					03/16/1999	10.13		S
					09/07/1999	10.40		S
212 S20 E61 27BDAA1	361102115083601	U	15.	2010.	10/14/1998	11.18		S
					01/22/1999	10.57		S
					05/18/1999	10.39		S
					07/19/1999	10.97		S
					10/05/1998	106.34		S
212 S20 E61 29CBB 2	361047115111601	I	967.	2143.14	10/19/1998	101.97		S
					11/02/1998	106.29		S
					11/09/1998	109.66		S
					11/30/1998	109.62		S
					12/14/1998	111.00		S
					12/21/1998	106.22		S
					12/28/1998	102.64		S
					01/04/1999	100.93		S
					01/11/1999	103.61		S
					01/19/1999	98.41		S
					01/26/1999	96.42		S
					02/01/1999	95.23		S
					03/01/1999	91.03		S
					03/08/1999	91.97		S
					03/15/1999	91.66		S
					03/29/1999	91.48		S
212 S20 E61 29CBB 2	361047115111601	I	967.	2143.14	04/19/1999	91.38		S
					04/26/1999	91.84		S

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
					05/03/1999	91.50	S	
					05/10/1999	91.17	S	
					05/17/1999	92.43	S	
					05/24/1999	90.50	S	
					06/07/1999	91.59	S	
					06/15/1999	93.07	S	
					06/28/1999	97.50	S	
					07/19/1999	103.15	S	
					07/26/1999	105.10	S	
					08/02/1999	108.50	S	
					08/09/1999	111.31	S	
					08/16/1999	121.02	S	
					08/23/1999	127.68	S	
					08/30/1999	129.78	S	
					09/13/1999	128.88	S	
					09/20/1999	121.84	S	
					09/28/1999	121.76	S	
212 S20 E61 30BDC 1	361053115120501	U	33.	2190.	10/14/1998	8.66	S	
					01/22/1999	9.70	S	
					05/18/1999	9.98	S	
					07/20/1999	9.37	S	
212 S20 E61 31DCD 1	360937115113401	U	18.	2155.	10/14/1998	10.17	S	
					01/22/1999	9.65	S	
					05/18/1999	10.71	S	
					07/20/1999	10.68	S	
212 S20 E61 32CDC 1	360941115104801	H	665.	2095.50	10/14/1998	41.67	S	
					01/22/1999	28.79	S	
					05/18/1999	29.90	S	
					07/20/1999	36.29	S	
212 S20 E61 34CAA 1	360837115095501	U	22.	2010.	10/14/1998	6.64	S	
					01/20/1999	7.34	S	
					05/18/1999	6.68	S	
					07/20/1999	6.01	S	
212 S20 E62 05CAAA1	361400115040901	U	1000.	1869.	10/13/1998	83.81	S	
					11/13/1998	80.44	S	
					01/20/1999	73.78	S	
					02/22/1999	72.82	S	
212 S20 E62 05CAAA1	361400115040901	U	1000.	1869.	04/12/1999	71.04	S	
					05/17/1999	70.74	S	
					06/17/1999	72.01	S	
					07/19/1999	75.19	S	
					08/18/1999	76.58	S	
212 S20 E62 07DAAC1	361324115045201	P	315.	1873.	10/05/1998	87.84	S	
					10/19/1998	87.14	S	
					11/01/1998	86.68	S	
					11/09/1998	86.54	S	
					11/30/1998	85.86	S	
					12/14/1998	85.48	S	
					12/21/1998	86.11	S	
					12/28/1998	85.19	S	
					01/04/1999	85.17	S	
					01/11/1999	85.12	S	
					01/19/1999	85.02	S	
					01/26/1999	84.89	S	
					02/01/1999	85.10	S	
					02/08/1999	84.86	S	
					03/01/1999	84.77	S	
					03/09/1999	84.77	S	
					03/15/1999	84.69	S	
					03/29/1999	84.71	S	
					04/05/1999	84.39	S	
212 S20 E62 07DAAC1	361324115045201	P	315.	1873.	04/19/1999	84.38	S	
					04/26/1999	84.29	S	
					05/03/1999	84.00	S	
					05/10/1999	84.22	S	
					05/24/1999	84.36	S	

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
					06/07/1999	84.72	S	
					06/15/1999	84.69	S	
					06/28/1999	86.62	S	
					07/19/1999	88.76	S	
					07/26/1999	86.10	S	
					08/02/1999	88.50	S	
					08/09/1999	86.62	S	
					08/16/1999	84.90	S	
					08/23/1999	85.44	S	
					08/30/1999	86.10	S	
					09/13/1999	85.90	S	
					09/20/1999	85.50	S	
					09/27/1999	84.90	S	
212 S20 E62 09CCC 1	361258115032101	P	650.	1827.	10/15/1998	78.73	S	
					01/20/1999	60.79	S	
					05/18/1999	89.76	S	
					07/20/1999	76.16	S	
212 S20 E62 15BBAB1	361233115021501	P	1000.	1816.	10/15/1998	76.49	S	
					01/20/1999	69.23	S	
					05/18/1999	79.22	S	
					07/20/1999	89.54	S	
212 S20 E62 19DC 1	361123115050601	P	300.	1797.	10/05/1998	17.77	S	
					10/19/1998	12.71	S	
					11/01/1998	17.56	S	
					11/09/1998	17.63	S	
					11/30/1998	18.47	S	
					12/14/1998	17.39	S	
					12/21/1998	17.34	S	
					12/28/1998	17.25	S	
					01/04/1999	17.15	S	
					01/11/1999	17.16	S	
					01/19/1999	17.73	S	
					01/26/1999	17.09	S	
					02/01/1999	17.12	S	
212 S20 E62 19DC 1	361123115050601	P	300.	1797.	02/08/1999	17.09	S	
					03/01/1999	17.60	S	
					03/09/1999	17.61	S	
					03/15/1999	17.60	S	
					03/29/1999	17.60	S	
					04/05/1999	18.16	S	
					04/19/1999	18.10	S	
					04/26/1999	18.20	S	
					05/02/1999	18.10	S	
					05/10/1999	18.02	S	
					05/17/1999	18.07	S	
					05/24/1999	18.10	S	
					06/07/1999	18.09	S	
					06/15/1999	18.18	S	
					06/28/1999	17.97	S	
					07/19/1999	18.70	S	
					07/26/1999	18.62	S	
					08/02/1999	18.52	S	
					08/09/1999	18.74	S	
					08/16/1999	18.76	S	
					08/23/1999	18.64	S	
					08/30/1999	18.72	S	
					09/13/1999	18.69	S	
					09/20/1999	18.73	S	
					09/27/1999	18.63	S	
212 S20 E62 21CAB 1	361131115031601	H	357.	1782.	10/05/1998	50.45	S	
					10/19/1998	50.03	S	
212 S20 E62 21CAB 1	361131115031601	H	357.	1782.	11/02/1998	49.63	S	
					11/09/1998	49.43	S	
					11/30/1998	47.79	S	
					12/14/1998	48.42	S	
					12/21/1998	48.66	S	

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
					12/28/1998	48.30		S
					01/04/1999	48.27		S
					01/11/1999	48.18		S
					01/19/1999	48.00		S
					01/26/1999	47.88		S
					02/01/1999	47.90		S
					02/08/1999	47.70		S
					03/01/1999	47.68		S
					03/09/1999	47.70		S
					03/15/1999	47.56		S
					03/29/1999	47.49		S
					04/05/1999	47.68		S
					04/19/1999	47.77		S
					04/26/1999	47.97		S
					05/02/1999	47.52		S
					05/10/1999	47.80		S
					05/17/1999	48.05		S
					05/24/1999	49.27		S
					06/07/1999	48.40		S
					06/15/1999	48.76		S
					06/28/1999	49.40		S
					07/19/1999	49.12		S
					07/26/1999	49.39		S
					08/02/1999	49.67		S
					08/09/1999	50.96		S
					08/16/1999	49.48		S
					08/23/1999	51.80		S
					08/30/1999	49.95		S
					09/13/1999	49.51		S
					09/20/1999	49.47		S
					09/27/1999	49.18		S
212 S20 E62 26BBCC1	361100115011901	H	320.	1900.	10/14/1998	123.80		T
					01/21/1999	122.86		S
					05/17/1999	121.72		S
					07/21/1999	120.63		S
212 S20 E62 29BB 1	361111115043101	P	300.	1786.	03/16/1999	23.04		S
212 S20 E62 34CABB1	360952115020701	I	100.	1740.	10/14/1998	24.08		S
					01/21/1999	23.74		S
					05/17/1999	23.42		S
					07/20/1999	23.85		S
212 S21 E60 01DBB 1	360847115125301	U	190.	2261.	10/15/1998	83.48		S
					01/22/1999	85.04		S
					05/17/1999	86.98		S
					07/19/1999	90.20		S
212 S21 E60 15BDBC1	360739115152701	N	680.	2480.	10/15/1998	415.94	R	S
					01/22/1999	416.35	R	S
					05/17/1999	388.03	T	V
					07/19/1999	417.61		V
212 S21 E60 16BDDb1	360712115155501	U	750.	2545.	10/15/1998	457.85		T
					01/22/1999	456.90		V
					05/17/1999	455.06		V
					07/19/1999	454.01		V
212 S21 E60 35ADAB1	360444115132301	H	500.	2359.	10/15/1998	294.56		V
					01/22/1999	293.32		V
					05/17/1999	292.08		V
					07/20/1999	291.87		V
212 S21 E61 03AAAD1	360924115081101	U	14.	1990.	10/14/1998	7.63		S
					01/20/1999	7.55		S
					05/18/1999	7.62		S
					07/20/1999	7.53		S
212 S21 E61 03ABB 2	360931115083802	H	807.	2014.	10/14/1998	38.86		S
					01/20/1999	27.13		S
					05/18/1999	27.14		S
					07/20/1999	34.54		S
212 S21 E61 04ABC 1	360921115093601	U	17.	2047.	10/14/1998	8.37		S

GROUND-WATER LEVELS

LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S21 E61 14ACA 1	360728115072901	I	750.	1930.	01/22/1999	8.13	S	
					05/18/1999	8.22	S	
					07/20/1999	7.72	S	
					10/14/1998	64.49	S	
					01/20/1999	8.14	S	
212 S21 E61 22CCC 1	360600115091001	U	500.	2072.	05/18/1999	79.62	S	
					07/20/1999	71.99	S	
					10/14/1998	48.11	T	
					01/21/1999	39.37	S	
					05/17/1999	38.29	S	
212 S21 E61 24CAD 1	360617115063801	U	24.	1950.	07/20/1999	39.83	V	
					10/14/1998	15.19	S	
					01/21/1999	15.73	S	
					05/17/1999	16.56	S	
					07/20/1999	15.86	S	
212 S21 E61 26DDBB1	360522115072101	U	25.	2010.	10/14/1998	16.04	S	
					01/21/1999	15.98	S	
					05/17/1999	17.69	S	
					07/20/1999	16.98	S	
					10/05/1998	19.08	S	
212 S21 E61 28CABB1	360528115094201	U	93.	2125.	10/14/1998	19.54	S	
					10/19/1998	19.02	S	
					11/02/1998	19.50	S	
					11/09/1998	19.67	S	
					11/30/1998	19.67	S	
					12/14/1998	19.55	S	
					12/21/1998	20.00	S	
					12/28/1998	19.97	S	
					01/04/1999	20.30	S	
					01/11/1999	20.30	S	
					01/19/1999	20.29	S	
					01/21/1999	20.69	S	
					01/26/1999	20.14	S	
					02/01/1999	20.18	S	
					02/08/1999	20.08	S	
212 S21 E61 36ADC 3	360449115061201	U	24.	1948.	03/01/1999		D	
					03/08/1999		D	
					03/15/1999		D	
					03/29/1999		D	
					04/05/1999		D	
					04/19/1999		D	
					05/02/1999		D	
					05/17/1999		D	
					05/24/1999		D	
					06/07/1999		D	
					06/15/1999		D	
					06/28/1999	19.99	S	
					07/19/1999	18.62	S	
					07/20/1999	18.58	S	
					07/26/1999	17.50	S	
212 S21 E62 08DBDA2	360733115034402	H	200.	1731.	08/02/1999	18.31	S	
					08/09/1999	18.20	S	
					08/16/1999	18.04	S	
					08/23/1999	17.80	S	
					08/30/1999	17.59	S	
212 S21 E62 10ACAA1	360826115020001	U	715.	1705.	09/13/1999	17.45	S	
					09/20/1999	18.54	S	
					09/27/1999	17.37	S	
					10/14/1998	14.08	S	
					01/21/1999	13.80	S	
212 S21 E62 10ACAA1	360826115020001	U	715.	1705.	05/17/1999	14.12	S	
					07/20/1999	14.32	S	
					10/14/1998	12.52	S	
					01/21/1999	12.00	S	
					05/17/1999	13.40	S	
212 S21 E62 10ACAA1	360826115020001	U	715.	1705.	07/20/1999	12.27	S	
					10/14/1998	17.56	S	

GROUND-WATER LEVELS
LAS VEGAS VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
212 S21 E62 17DAB 1	360744115050801	U	11.	1730.	01/21/1999	18.00		S
					05/17/1999	16.79		S
					07/20/1999	15.49		S
					10/14/1998	8.55		S
					01/21/1999	7.10		S
212 S21 E62 20DDD 1	360601115034401	P	500.	1720.	05/17/1999	6.67		S
					10/14/1998	-61.50		G
					01/21/1999	-64.50		G
					05/17/1999	-64.50		G
212 S21 E62 27CCCB1	360509115023001	U	360.	1665.	07/20/1999	-64.00		G
					10/14/1998	15.69		S
					11/20/1998	16.68		S
					01/21/1999	17.73		S
					03/16/1999	18.80		S
212 S21 E63 30AAAA1	360832115060201	U	76.	1590.	05/17/1999	25.76		S
212 S22 E60 20CACA1	360047115171401	U	710.	2810.	10/16/1998	472.77		T
					01/22/1999	472.48		V
					05/17/1999	472.79		V
					07/19/1999	472.80		V
212 S22 E61 04ACDA1	360400115092401	U	122.	2159.	10/14/1998	95.38		S
					01/21/1999	94.80		S
					05/17/1999	94.30		S
					07/20/1999	94.07	S	S
212 S22 E61 04BCB 1	360349115100001	U	355.	2219.	10/13/1998	160.26		S
					11/13/1998	159.88		S
					11/30/1998	159.40		Z
					12/14/1998	159.20		Z
					12/21/1998	159.21		Z
					12/28/1998	159.20		Z
					01/04/1999	159.11		Z
					01/11/1999	158.68		Z
					10/19/1998	21.89		S
212 S22 E61 12AAAD1	360321115060001	P	500.	2020.	01/21/1999	13.15		S
					05/17/1999	19.34		S
					07/20/1999	23.69		S
					10/19/1998	273.27		S
212 S22 E61 18CACD1	360156115120501	U	360.	2356.	01/21/1999	272.01		S
					05/17/1999	272.13		S
					07/20/1999	272.58		S
					10/19/1998	205.50		S
212 S22 E61 20BAD 1	360112115104301	U	210.	2287.	01/21/1999	206.45		S
					05/17/1999	207.73		S
					11/20/1998	177.00		S
212 S22 E61 21BBD 1	360120115100001	U	150.	2232.	03/16/1999	159.35		S
					09/07/1999	169.24		S
					10/19/1998	137.65		S
					01/21/1999	137.21		S
212 S22 E61 29DCDB1	360002115103801	U	300.	2275.	05/17/1999	137.60		S
					07/20/1999	138.00		S
					10/19/1998	220.72		S
					01/21/1999	219.73		S
					05/17/1999	220.89		S
212 S23 E61 03BCC 1	361136115101401	C	650.	2375.	07/21/1999	221.39		S

* Additional water-level data may be found in Ground-water Levels, Primary Observation Wells section.

CARBONATE ROCK STUDY AREA

County codes: 003, Clark; 017, Lincoln; 023, Nye; 033, White Pine.

Water-use codes: C, commercial; S, stock; U, unused.

Type of Opening: -P, perforated or slotted casing; S, screen.

Water Level Method: A, airline; C, calibrated airline; S, steel tape; T, electric tape; V, calibrated electric-tape;

Locations of following sites are shown in figures 20.

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Type of Opening	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
						Top	Bottom			Date	Feet	Method
156 N03 E50 13CA 1	380652116200901	02/13/1981	023	U	682.				5350.	10/21/1998	313.98	T
										12/07/1998	314.32	V
										04/05/1999	314.15	V
										07/12/1999	314.03	V
156 N07 E51 10AD 1	382901116125201	10/09/1980	023	U	480.				5600.	10/21/1998	236.06	T
										12/07/1998	236.20	V
										04/05/1999	236.19	V
										07/12/1999	236.08	V
172 N02 E57 22BBC 1	380132115333501	12/12/1980	017	U	1010.				5550.	12/09/1998	408.85	V
										04/14/1999	408.22	V
										07/14/1999	409.00	V
172 N03 E59 10BD 1	380758115204601	12/08/1980	023	U	1837.				5560.	10/27/1998	797.60	T
										12/09/1998	797.98	V
										01/21/1999	797.48	T
										04/14/1999	797.73	V
173B N03 E52 02DA 2	380906116050502	08/15/1980	023	U	495.				5010.	07/14/1999	797.63	V
										10/21/1998	233.07	T
										12/07/1998	232.81	V
										04/05/1999	233.24	T
173B N10 E58 17CAAB1	384338115283601	09/29/1980	023	U	581.	279.	339.	S	5135.	07/12/1999	233.19	T
						380.	420.	S		10/21/1998	272.68	T
						441.	560.	S		12/07/1998	271.54	V
										04/05/1999	266.28	V
179 N12 E63 12AB 1	385521114503601	10/13/1980	033	U	640.				7320.	07/12/1999	265.79	S
										10/23/1998	422.28	T
										12/10/1998	422.56	V
										04/06/1999	422.63	V
180 N07 E63 14BADD1	382807114521001	10/25/1980	017	U	460.	210.	250.	S	6008.	07/13/1999	421.68	T
						375.	435.	S		10/23/1998	220.88	T
										12/10/1998	221.08	V
										04/15/1999	220.84	V
181 N03 E63 27CAA 1	380531114534201	11/21/1980	017	U	2395.				5560.	07/14/1999	220.46	V
										10/27/1998	848.10	T
										12/09/1998	848.55	V
										04/08/1999	848.42	V
181 N04 E64 07DC 1	381256114500701	07/28/1981	017	U	1190.				5530.	07/14/1999	847.99	V
										10/27/1998	254.30	T
										12/10/1998	254.65	V
										04/08/1999	254.40	V
181 S03 E64 12AC 1	374215114453101	04/20/1980	017	U	1000.				4640.	07/14/1999	254.38	V
										10/23/1998	394.10	T
										12/10/1998	394.30	V
										04/15/1999	394.32	V
183 N06 E66 35C 1	382003114322501	07/26/1946	017	U	161.				5950.	07/15/1999	394.09	V
										10/23/1998	148.29	S
										12/09/1998	147.69	V
										04/15/1999	145.97	V
183 N07 E66 16DC 1	382753114341301	07/01/1980	017	U	97.				5915.	07/15/1999	147.96	S
										10/23/1998	18.90	S
										12/09/1998	18.80	S
										04/15/1999	18.67	S
183 N08 E65 02D 1	383502114383201	11/15/1964	017	U	130.				5975.	07/15/1999	18.97	S
										10/23/1998	33.77	S
										12/10/1998	32.48	S
										04/15/1999	32.13	S

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

CARBONATE ROCK STUDY AREA —Continued

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Dept	Perforated Interval (feet)		Type of Open- ing	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
						Top	Bottom			Date	Feet	Method
184 N09 E68 30AAAB1	383704114225001	08/07/1980	017	U	679.	559.	679.	P	6010.	10/22/1998	225.57	T
										12/08/1998	225.53	V
										04/06/1999	225.68	V
										07/13/1999	225.46	V
184 N10 E67 22AA 1	384310114261401	07/01/1980	033	U	100.				5889.	10/22/1998	65.15	S
										12/08/1998	64.99	V
										04/06/1999	65.01	V
										07/13/1999	64.89	S
184 N11 E68 19DCDC1	384745114224401	01/01/1981	033	U	200.				5906.	10/22/1998	98.69	S
										12/08/1998	98.62	V
										04/06/1999	98.32	V
										07/13/1999	97.99	S
184 N13 E67 18DCAB1	385920114294001	04/22/1960	033	S	120.				5850.	10/22/1998	52.07	S
										12/08/1998	51.98	S
										04/06/1999	51.85	S
										07/14/1999	51.86	S
184 N14 E66 24BDDD1	390352114305401	01/01/1981	033	U	160.				5840.	10/22/1998	37.85	S
										12/08/1998	37.84	V
										04/06/1999	37.90	S
										07/13/1999	37.94	S
195 N11 E70 35AD 1	384702114041601	01/01/1981	033	U	101.				5578.	10/22/1998	68.92	T
										12/08/1998	68.39	V
										04/06/1999	68.91	V
										07/13/1999	67.90	S
195 N11 E70 35BA 1	384714114051001	09/01/1980	033	U	200.				5660.	10/22/1998	145.04	S
										12/08/1998	142.13	V
										04/06/1999	142.15	V
										07/13/1999	142.01	S
195 N14 E70 08DC 1	390543114081801	01/01/1981	033	U	79.				5996.	10/22/1998	56.52	S
										12/08/1998	57.88	V
										04/06/1999	57.67	S
										07/13/1999	53.69	S
195 N15 E70 25DD 1	390812114033601	01/01/1981	033	U	94.				5068.	10/22/1998	13.25	S
										12/08/1998	13.11	V
										04/06/1999	12.89	S
										07/13/1999	13.52	S
196 N08 E69 35DC 2	383023114115302	08/07/1980	017	U	435.				5830.	10/22/1998	172.52	S
										12/08/1998	171.89	V
										04/06/1999	172.57	V
										07/13/1999	172.11	V
210 S13 E63 23DDDC1	364743114533101	12/12/1980	003	U	669.				2172.6	10/27/1998	352.48	T
										12/17/1998	352.66	V
										02/19/1999	352.48	T
										03/02/1999	352.47	T
										03/11/1999	352.42	T
										04/12/1999	352.38	T
										05/07/1999	352.42	T
										07/02/1999	352.46	T
										08/12/1999	352.84	T
219 S13 E64 35ACAA1	364604114471301	06/03/1981	003	C	937.				2274.6	12/31/1998	460.00	A
										02/01/1999	516.00	C
										03/01/1999	516.00	C
										04/01/1999	459.00	A
										04/30/1999	459.00	A
										06/01/1999	460.00	A
										07/01/1999	459.00	T
										08/02/1999	461.00	C
										09/01/1999	459.00	C
219 S13 E65 28BDAC1	364650114432001	02/06/1985	003	U	478.				2185.9	10/27/1998	392.16	T
										12/17/1998	392.06	V
										04/08/1999	391.84	T
										07/28/1999	392.56	T

SPRING DISCHARGE
CARBONATE ROCK STUDY AREA

Uses: I, irrigation; U, unused .

Measurement method: C, current meter; F, flume; V, venturi meter; W, Weir; Z, other.

Spring Number	Site Identification	Spring Name	Use	Land Surface Elevation (Feet)	Measurement		
					Date	Discharge (GPM)	Method
173B N08 E55 15ACBD1	383311115461501	Big Spring	I	4820	04/05/1999	664.	C
					09/14/1999	498.	C
173B N08 E57 11DDB 1	383346115313801	Blue Eagle Springs	I	4765	04/05/1999	1830.	C
					09/14/1999	1170.	C
173B N13 E56 32BACD1	385650115421301	Big Warm Spring	I	5605	04/07/1999	10300.	C
					09/14/1999	9520.	C
207 N06 E61 18AADA1	382259115090801	Hot Creek Spring	I	5225	04/07/1999	4760.	C
					09/13/1999	6910.	C
207 N07 E62 28ABDC1	382624115004001	Butterfield Spring	I	5320	04/08/1999	1240.	C
					09/15/1999	1210.	C
207 N07 E62 33BCAB1	382526115011401	Flag Spring No 1	I	5290	04/08/1999	956.	C
					09/15/1999	1010.	C
207 N07 E62 33BCCB1	382522115012001	Flag Spring No 2	I	5280	04/08/1999	1280.	C
					09/13/1999	1430.	C
207 N07 E62 33BCCC1	382517115012001	Flag Spring No 3	I	5290	04/08/1999	754.	C
					09/13/1999	1180.	C
207 N09 E61 32DABC1	383540115081801	Moorman Spring	I	5295	04/08/1999	248.	C
					09/15/1999	175.	C
207 N11 E62 04AABA1	385158115000401	Lund Spring	I	5500	04/08/1999	3830.	W
					09/14/1999	4310.	C
207 N12 E61 02ACAB1	385540115045701	Preston Big Spring	I	5700	04/08/1999	4710.	C
					09/14/1999	3380.	C
207 N12 E61 12DBDD1	385530115044601	Nicholas Springs	I	5700	04/08/1999	1310.	C
					09/14/1999	1130.	C
207 N12 E61 12DCCD1	385539115045702	Arnoldson Spring	I	5700	04/08/1999	1830.	C
					09/14/1999	1540.	C
209 S05 E60 10ADBB1	373155115135801	Crystal Springs	I	3810	01/14/1999	4670.	C
					01/14/1999	4940.	C
					04/14/1999	5070.	C
					05/18/1999	5390.	C
					06/29/1999	5250.	C
					07/12/1999	5390.	C
					08/26/1999	5534.	C
209 S06 E61 06BBBB1	372749115113401	Ash Springs	I	3615	02/22/1999	7180.	C
					04/14/1999	8480.	C
					05/18/1999	6910.	C
					06/29/1999	7450.	C
					07/12/1999	7720.	C
					08/26/1999	8330.	C
219 S14 E65 16BBB 1	364333114433801	Muddy River Spring 9 LDS Farms	I	1650	04/13/1999	65.10	C
					04/13/1999	71.40	C
					09/07/1999	224.	C
219 S14 E65 16BD 1	364316114431901	Muddy River West	I	1794	04/13/1999	1200.	C
					09/07/1999	1100.	C
219 S14 E65 21 1	364238114424301	Muddy River Spring 20		1778	04/19/1999	336.	C
					04/19/1999	343.	C
					09/07/1999	295.	C
219 S14 E65 21AAAA1	364238114424201	Muddy River Spring Warm Springs Resort	I	1620	04/13/1999	696.	C
					04/13/1999	736.	C
					09/07/1999	530.	C
219 S14 E65 21AAAA2	364236114424301	Warm Springs East	I	1790	09/07/1999	951.	C
219 S14 E65 21AAB2	364238114424401	Muddy River Spring Warm Springs Leisure Park	I	1620	04/13/1999	115.	C
					04/13/1999	125.	C
					09/07/1999	127.	C
219 S14 E65 21AABB1	364235114425201	Muddy River Spring 11	I	1650	04/13/1999	445.	C
					04/13/1999	485.	C
					09/07/1999	503.	C

SPRING DISCHARGE
CARBONATE ROCK STUDY AREA--Continued

Spring Number	Site Identification	Spring Name	Use	Land Surface Elevation (Feet)	Measurement		
					Date	Discharge (GPM)	Method
219 S14 E65 21AABB2	364237114425401	Muddy River Spring 12	I	1650	04/13/1999	125.	C
					04/13/1999	127.	C
					09/07/1999	153.	C
219 S14 E65 21AABB3	364236114425401	Muddy River Spring 13	I	1650	04/13/1999	237.	C
					04/13/1999	243.	C
					09/07/1999	328.	C
219 S14 E65 21AABB4	364235114425301	Muddy River Spring 19	U	1800	04/28/1998	440.	C
					09/22/1998	369.	C
					04/13/1999	433.	C
					04/13/1999	436.	C
					09/07/1999	392.	C
230 S18 E50 03ADBA1	362502116192301	Crystal Pool	U	2195	10/22/1998	2500.	C
					11/18/1998	2900.	C
					11/24/1998	2600.	C
					12/22/1998	3000.	C
					02/22/1999	3000.	C
					05/20/1999	3000.	C
					08/18/1999	2500.	C

HIGH-ELEVATION PRECIPITATION NETWORK

CARBONATE ROCK STUDY AREA

High-elevation precipitation data are collected at sites in eastern and southeastern Nevada. Locations of the following sites are shown in figure 22.

Station Name	Site Identification	Latitude	Longitude	Elevation (feet)	Period	Precipitation (inches)
Cave Mountain	390946114364901	39°09'46"	114°36'49"	10,650	10/13/98 to 06/16/99 06/16/99 to 11/09/99	17.75 0
Cherry Creek Range	400726114524701	40°07'26"	114°52'47"	9,700	10/13/98 to 06/16/99 06/16/99 to 11/09/99	18.75 0
Hayford Peak	363929115115801	36°39'29"	115°11'58"	9,840	10/06/98 to 06/08/99 06/08/99 to 10/05/99	7.00 4.50
Kyle Canyon	361457115373301	36°14'57"	115°37'33"	7,760	10/06/98 to 06/09/99 06/09/99 to 10/12/99	9.25 3.00
Lee Canyon	361822115402501	36°18'22"	115°40'25"	8,510	10/06/98 to 06/09/99 06/09/99 to 10/12/99	12.25 7.00
Mt. Hamilton	391436115323901	39°14'36"	115°32'39"	10,600	10/13/98 to 06/16/99 06/16/99 to 11/09/99	14.00 4.25
Mt. Washington	385409114185401	38°54'09"	114°18'54"	10,440	#10/07/97 to 07/21/99 07/21/99 to 09/15/99	62.00 0
Mt. Wilson	381438114233301	38°14'38"	114°23'33"	9,200	10/13/98 to 06/16/99 06/16/99 to 11/09/99	11.75 1.25
NW of Mt. Moriah	391913114143101	39°19'13"	114°14'31"	9,300	10/13/98 to 11/09/99 06/16/99 to 11/09/99	17.25 —
Potosi Peak	355641115294601	35°56'41"	115°29'46"	8,080	10/06/98 to 06/08/99 06/08/98 to 10/05/99	*.50 *
Sheep Peak	363500115144301	36°35'00"	115°14'43"	9,600	10/06/98 to 06/08/99 06/08/99 to 10/05/99	6.75 3.00
Trough Spring	362240115462101	36°22'40"	115°46'21"	8,240	10/06/98 to 06/08/99 06/08/99 to 10/05/99	9.50 .25

* Site vandalized.

Gage not visited during 1998 water year.

SPRING VALLEY
10243700 CLEVE CREEK NEAR ELY, NV

LOCATION.--Lat 39°12'58", long 114°31'44", in SE 1/4 SE 1/4 sec.27, T.16 N., R.66 E., White Pine County, Hydrologic Unit 16060003, on right bank, 2.3 mi downstream from North Fork, 4 mi southwest of Cleveland Ranch headquarters, and 18 mi east of Ely.

DRAINAGE AREA.--31.8 mi².

PERIOD OF RECORD.--June 1914 to December 1916 (published as Cleveland Creek near Osceola), October 1959 to September 1967, October 1976 to September 1981, December 1982 to September 1987, March 1990 to current year. Crest-stage partial-record station October 1967 to September 1976.

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

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station. Practically entire flow diverted for irrigation by Cleveland Ranch below station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft³/s, May 30, 1983, gage height, unknown; minimum daily, 2.7 ft³/s, December 22, 1990.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 04	1200	21	1.69	Jun 09	2306	*39	*1.96

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	10	8.2	9.0	11	9.1	9.2	12	27	20	10	9.7
2	9.7	10	8.2	8.8	10	8.9	9.1	12	29	20	10	9.7
3	9.7	9.8	8.2	9.5	9.7	8.9	9.1	13	33	20	10	9.6
4	9.6	9.6	8.3	11	9.7	9.0	8.9	12	32	19	10	9.5
5	9.8	9.6	e8.2	9.1	9.7	8.9	9.0	12	33	19	9.9	9.4
6	9.8	9.4	e8.6	9.1	9.5	8.8	8.9	13	35	19	9.7	9.2
7	9.7	9.4	e9.2	9.1	9.6	8.8	8.8	13	36	19	9.5	9.0
8	9.7	9.3	9.7	9.1	9.7	8.9	8.7	16	37	20	9.4	8.9
9	9.7	9.0	8.4	9.7	10	8.7	8.8	17	38	19	9.7	8.8
10	9.7	10	9.3	9.1	10	e8.7	e8.7	17	39	18	10	9.2
11	9.5	9.3	9.5	9.1	e10	8.8	9.0	17	37	17	9.5	9.1
12	9.5	9.2	9.0	9.2	e9.9	9.4	8.9	17	37	16	9.3	8.8
13	9.5	9.2	8.6	9.1	e9.8	8.7	9.1	18	36	18	9.2	9.0
14	9.5	9.2	8.4	9.0	9.7	8.6	9.1	17	36	17	9.1	9.1
15	9.7	9.0	8.4	9.2	9.6	8.5	9.3	18	36	15	9.1	8.9
16	9.7	9.0	8.4	9.1	9.4	8.3	9.3	19	36	14	9.2	8.9
17	9.5	9.0	8.6	9.2	9.4	8.3	9.7	19	35	14	9.1	9.1
18	9.5	8.7	8.8	9.1	9.1	8.5	10	20	34	13	9.3	8.9
19	9.5	8.5	e8.2	9.1	9.1	8.8	10	22	33	13	9.6	9.4
20	9.5	8.5	e8.2	9.5	9.9	9.0	11	23	32	12	12	9.1
21	9.4	8.4	e8.2	9.3	9.1	9.1	11	25	31	11	11	8.8
22	9.4	8.4	e8.2	11	10	9.1	12	26	29	11	10	8.6
23	9.5	8.4	e8.2	9.4	9.1	8.9	11	29	28	11	9.8	8.6
24	9.5	8.3	e8.7	9.9	8.9	8.9	11	29	27	11	10	8.5
25	9.6	8.2	e9.6	12	9.0	9.0	11	29	26	11	10	8.4
26	9.7	8.2	e10	9.7	8.9	9.1	11	30	25	11	9.6	8.4
27	10	8.2	11	11	8.9	8.9	11	31	25	11	10	8.4
28	9.8	8.4	9.4	e9.0	9.0	9.0	11	31	23	11	9.6	8.5
29	10	8.4	9.2	e9.4	---	8.9	11	28	22	11	9.4	8.5
30	10	8.4	9.1	e10	---	8.8	11	28	21	11	11	8.4
31	9.9	---	9.2	e11	---	8.9	---	28	---	11	10	---
TOTAL	299.5	269.0	273.2	296.8	267.7	274.2	295.6	641	948	463	304.0	268.4
MEAN	9.66	8.97	8.81	9.57	9.56	8.85	9.85	20.7	31.6	14.9	9.81	8.95
MAX	10	10	11	12	11	9.4	12	31	39	20	12	9.7
MIN	9.4	8.2	8.2	8.8	8.9	8.3	8.7	12	21	11	9.1	8.4
AC-FT	594	534	542	589	531	544	586	1270	1880	918	603	532

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1999, BY WATER YEAR (WY)

MEAN	7.43	7.35	6.83	6.57	6.96	8.60	12.5	23.2	25.1	11.1	8.26	7.53
MAX	16.8	15.3	12.9	11.5	11.8	15.4	30.3	82.9	117	30.0	21.1	16.2
(WY)	1985	1985	1985	1984	1984	1984	1984	1983	1983	1983	1983	1983
MIN	4.54	4.53	4.27	4.05	4.42	4.58	5.20	6.85	5.63	4.60	3.99	3.75
(WY)	1993	1962	1961	1960	1960	1991	1991	1990	1992	1992	1960	1960

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1914 - 1999	
ANNUAL TOTAL	5801.6		4600.4			
ANNUAL MEAN	15.9		12.6		10.4	
HIGHEST ANNUAL MEAN					22.2	
LOWEST ANNUAL MEAN					5.15	
HIGHEST DAILY MEAN	62 Jun 16		39 Jun 10		280 May 30 1983	
LOWEST DAILY MEAN	4.6 Jan 1		8.2 Nov 25		2.7 Dec 22 1990	
ANNUAL SEVEN-DAY MINIMUM	4.6 Jan 1		8.3 Nov 29		3.4 Dec 18 1990	
INSTANTANEOUS PEAK FLOW			39 Jun 9		440 May 30 1983	
INSTANTANEOUS PEAK STAGE			1.96 Jun 9		1.96 Jun 9 1999	
ANNUAL RUNOFF (AC-FT)	11510		9120		7560	
10 PERCENT EXCEEDS	35		25		19	
50 PERCENT EXCEEDS	10		9.6		7.7	
90 PERCENT EXCEEDS	7.3		8.5		4.9	

e Estimated

STEPTOE VALLEY BASIN
10244950 STEPTOE CREEK NEAR ELY, NV
(Hydrologic Benchmark Station)

LOCATION.--Lat 39°12'05", long 114°41'15", in SW 1/4 SW 1/4 sec.32, T.16 N., R.65 E., White Pine County, Hydrologic Unit 16060008, in Humboldt National Forest, on left bank, 0.1 mi downstream from Clear Creek, 0.8 mi upstream from Cave Creek, and 11 mi southeast of Ely.

DRAINAGE AREA.--11.1 mi².

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

PRECIPITATION: July 1991 to March 1996 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 7,440 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 85 ft³/s, July 21, 1985, gage height, 3.21 ft; minimum daily, 1.6 ft³/s, February 20 and 21, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft³/s, June 16, gage height, 1.91 ft; minimum daily, 3.8 ft³/s, April 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	6.0	5.1	4.4	4.7	4.7	4.2	5.1	14	14	6.8	6.0
2	6.9	6.0	4.9	4.4	4.6	4.6	4.2	5.4	15	14	6.8	5.7
3	7.1	5.8	4.9	4.4	4.7	4.6	4.3	5.8	14	13	6.7	5.4
4	7.1	5.8	4.8	4.5	4.7	4.5	4.2	6.1	14	13	6.8	5.4
5	7.0	5.8	4.4	4.5	4.9	4.5	4.2	6.3	14	12	6.8	5.4
6	6.7	5.8	4.4	4.5	4.9	4.5	4.2	6.7	15	12	6.7	5.4
7	6.8	5.8	4.5	4.5	4.9	4.5	4.2	7.3	15	12	6.7	5.4
8	6.9	5.8	5.0	4.5	4.9	4.4	4.2	8.2	16	12	6.6	5.3
9	6.9	5.6	4.8	4.5	4.9	4.4	3.8	8.7	17	11	6.5	5.2
10	6.8	5.5	4.6	4.5	4.3	4.3	4.0	8.7	18	11	6.5	5.2
11	6.6	5.7	4.9	4.5	4.4	4.4	4.2	8.6	18	10	6.6	5.3
12	6.6	5.7	4.9	4.5	4.7	4.3	4.2	8.5	17	10	6.7	5.2
13	6.7	5.6	4.7	4.5	5.0	4.3	4.1	8.5	17	9.9	6.5	5.2
14	6.9	5.5	4.7	4.6	4.8	4.3	4.2	8.8	17	10	6.5	5.2
15	6.7	5.4	4.7	4.7	4.7	4.3	4.2	8.9	18	9.7	6.5	5.2
16	6.7	5.4	4.6	4.7	4.7	4.2	4.3	8.9	19	9.4	6.5	5.0
17	6.5	5.4	4.5	4.6	4.7	4.2	4.4	8.6	19	9.1	6.4	5.0
18	6.6	5.3	4.5	4.6	4.7	4.2	4.4	9.0	18	8.9	6.4	5.1
19	6.9	5.2	4.5	4.6	4.6	4.2	4.4	9.7	18	8.4	6.4	5.0
20	6.8	5.1	4.3	4.6	4.7	4.2	4.6	10	18	8.4	6.2	4.9
21	6.4	5.3	4.2	4.5	4.8	4.2	4.9	10	18	7.8	6.1	4.8
22	6.0	5.3	4.2	4.4	4.6	4.2	4.9	11	17	7.6	6.2	4.8
23	6.0	5.3	4.2	4.6	4.5	4.2	4.7	12	17	7.4	6.3	4.8
24	6.0	5.2	4.5	4.7	4.6	4.2	4.7	12	17	7.3	5.9	4.8
25	6.0	5.1	4.9	4.7	4.5	4.2	4.6	13	16	7.2	6.0	4.8
26	6.0	5.1	4.7	4.8	4.5	4.2	4.6	13	16	7.0	5.7	4.9
27	6.0	5.3	4.7	4.6	4.6	4.2	4.9	13	16	7.0	5.6	4.9
28	5.9	5.3	4.5	4.5	4.7	4.2	4.9	14	15	7.0	5.4	4.7
29	6.3	5.3	4.5	4.7	---	4.3	5.1	14	15	7.0	5.5	4.8
30	6.2	5.3	4.4	4.7	---	4.3	5.0	14	14	6.8	5.4	4.7
31	6.0	---	4.4	4.7	---	4.3	---	14	---	6.7	5.3	---
TOTAL	203.1	164.7	142.9	141.5	131.3	134.1	132.8	297.8	492	296.6	195.0	153.5
MEAN	6.55	5.49	4.61	4.56	4.69	4.33	4.43	9.61	16.4	9.57	6.29	5.12
MAX	7.1	6.0	5.1	4.8	5.0	4.7	5.1	14	19	14	6.8	6.0
MIN	5.9	5.1	4.2	4.4	4.3	4.2	3.8	5.1	14	6.7	5.3	4.7
AC-FT	403	327	283	281	260	266	263	591	976	588	387	304

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

	MEAN	5.11	4.61	4.08	3.74	3.69	4.17	6.15	12.4	15.8	10.8	7.05	5.65
MAX	10.7	9.74	8.49	7.02	7.09	8.85	13.9	39.7	59.4	33.5	18.0	11.9	
(WY)	1983	1983	1983	1984	1984	1983	1984	1983	1983	1983	1983	1983	1983
MIN	2.22	2.04	1.94	1.89	1.81	1.94	2.34	2.48	3.52	2.71	2.20	2.16	
(WY)	1993	1993	1993	1993	1993	1991	1991	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1966 - 1999

ANNUAL TOTAL	3484.4	2485.3	
ANNUAL MEAN	9.55	6.81	7.02
HIGHEST ANNUAL MEAN			18.9
LOWEST ANNUAL MEAN			2.84
HIGHEST DAILY MEAN	30 Jun 30	19 Jun 16	73 May 29 1983
LOWEST DAILY MEAN	3.1 Jan 1	3.8 Apr 9	1.6 Feb 20 1993
ANNUAL SEVEN-DAY MINIMUM	3.1 Jan 1	4.1 Apr 7	1.7 Feb 20 1993
INSTANTANEOUS PEAK FLOW		19 Jun 16	85 Jul 21 1985
INSTANTANEOUS PEAK STAGE		1.91 Jun 16	3.21 May 24 1983
ANNUAL RUNOFF (AC-FT)	6910	4930	5080
10 PERCENT EXCEEDS	20	13	14
50 PERCENT EXCEEDS	6.6	5.3	4.7
90 PERCENT EXCEEDS	3.5	4.3	2.7

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 PERIOD OF RECORD.--Maximum discharge, 340 ft³/s, May 29, 1983, gage height, 4.66 ft; minimum daily, 0.24 ft³/s, August 26, 1997.

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)
Jun 12	0130	56	1.84	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	e3.7	e2.7	e1.8	e1.6	e1.4	2.0	3.5	38	8.9	4.3	3.0
2	e4.7	e3.7	e2.7	e1.8	e1.6	e1.4	2.3	4.1	38	8.4	3.8	3.1
3	e4.5	e3.7	e2.7	e1.8	e1.6	e1.4	2.1	3.9	42	9.0	3.5	3.1
4	e4.3	e3.6	e2.7	e1.8	e1.6	e1.4	2.1	3.4	49	9.8	3.1	3.0
5	e4.1	e3.5	e2.7	e1.8	e1.6	e1.4	1.9	3.1	41	9.7	3.0	2.8
6	e3.9	e3.5	e2.7	e1.7	e1.6	e1.4	2.0	3.3	38	7.4	2.8	2.6
7	e3.9	e3.2	e2.7	e1.7	e1.6	e1.4	2.0	4.0	40	6.4	2.7	2.4
8	e3.9	e3.1	e2.7	e1.7	e1.6	e1.4	1.9	4.7	41	8.3	2.3	2.1
9	e4.1	e3.1	e2.7	e1.7	e1.6	e1.4	1.8	5.0	43	6.3	2.2	1.9
10	e4.1	e3.0	e2.7	e1.7	e1.6	e1.3	1.8	5.3	47	6.9	3.2	2.0
11	e4.1	e2.8	e2.5	e1.7	e1.6	e1.3	2.0	5.7	52	5.4	3.0	2.1
12	e4.1	e2.8	e2.4	e1.7	e1.5	e1.3	2.0	6.8	48	4.9	2.7	1.7
13	e4.0	e2.8	e2.3	e1.7	e1.5	e1.3	2.4	9.0	36	5.5	2.2	1.7
14	e4.1	e2.8	e2.1	e1.7	e1.5	e1.3	2.8	11	39	6.6	2.1	1.9
15	e4.1	e2.8	e2.0	e1.7	e1.5	e1.3	2.9	11	32	5.9	2.1	2.0
16	e4.1	e2.8	e2.0	e1.7	e1.5	1.3	2.9	11	31	5.0	2.0	1.7
17	e3.9	e2.8	e2.0	e1.7	e1.5	1.3	3.2	12	30	4.3	1.8	1.7
18	e3.9	e2.8	e1.9	e1.7	e1.5	1.5	3.6	15	28	3.9	2.0	2.6
19	e3.9	e2.8	e1.9	e1.7	e1.5	1.6	3.9	19	25	3.3	1.9	2.5
20	e3.9	e2.7	e1.9	e1.7	e1.5	2.1	3.8	20	24	3.1	2.7	2.6
21	e3.9	e2.7	e1.9	e1.7	e1.5	2.3	3.7	22	22	2.9	6.6	2.1
22	e3.9	e2.7	e1.9	e1.7	e1.5	2.3	3.5	25	20	2.7	6.3	2.0
23	e3.9	e2.7	e1.9	e1.7	e1.5	2.5	3.2	27	19	2.6	4.3	2.1
24	e3.9	e2.7	e1.9	e1.7	e1.5	2.4	3.2	30	18	2.3	3.9	2.1
25	e3.9	e2.7	e1.9	e1.7	e1.4	2.6	3.7	35	17	2.3	3.9	2.1
26	e3.9	e2.7	e1.8	e1.6	e1.4	2.7	3.8	34	14	2.1	3.7	2.2
27	e3.8	e2.7	e1.8	e1.6	e1.4	2.8	3.7	33	12	3.5	4.5	1.9
28	e3.7	e2.7	e1.8	e1.6	e1.4	2.6	3.9	37	10	5.4	3.7	1.7
29	e3.7	e2.7	e1.8	e1.6	---	2.5	3.6	41	9.6	5.4	3.0	1.6
30	e3.7	e2.7	e1.8	e1.6	---	2.6	3.1	43	9.9	4.8	2.7	1.2
31	e3.7	---	e1.8	e1.6	---	2.2	---	40	---	5.4	2.8	---
TOTAL	124.6	89.0	68.3	52.6	42.7	55.7	84.8	527.8	913.5	168.4	98.8	65.5
MEAN	4.02	2.97	2.20	1.70	1.52	1.80	2.83	17.0	30.5	5.43	3.19	2.18
MAX	5.0	3.7	2.7	1.8	1.6	2.8	3.9	43	52	9.8	6.6	3.1
MIN	3.7	2.7	1.8	1.6	1.4	1.3	1.8	3.1	9.6	2.1	1.8	1.2
AC-FT	247	177	135	104	85	110	168	1050	1810	334	196	130

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1999, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2.30	1.86	1.52	1.36	1.27	1.65	3.19	16.9	25.0	8.28	3.73	2.37										
MAX	4.63	3.06	2.47	2.00	1.90	2.71	9.46	43.7	74.7	34.2	10.7	6.41										
(WY)	1985	1985	1984	1984	1984	1983	1985	1983	1995	1998	1984	1984										
MIN	1.32	.99	.98	.83	.75	.89	1.14	1.77	6.38	1.68	.60	.83										
(WY)	1993	1986	1993	1987	1987	1987	1991	1991	1989	1994	1997	1987										

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1978 - 1999

	1998	1999	1978-1999
ANNUAL TOTAL	4428.80	2291.7	
ANNUAL MEAN	12.1	6.28	5.79
HIGHEST ANNUAL MEAN			13.8
LOWEST ANNUAL MEAN			2.23
HIGHEST DAILY MEAN	100	52	290
LOWEST DAILY MEAN	.76	1.2	.24
ANNUAL SEVEN-DAY MINIMUM	.85	1.3	.27
INSTANTANEOUS PEAK FLOW		56	340
INSTANTANEOUS PEAK STAGE		1.84	4.66
ANNUAL RUNOFF (AC-FT)	8780	4550	4200
10 PERCENT EXCEEDS	37	18	14
50 PERCENT EXCEEDS	3.9	2.7	1.9
90 PERCENT EXCEEDS	1.2	1.6	1.1

e Estimated

MONITOR VALLEY-DIAMOND VALLEY SYSTEM
10245910 MOSQUITO CREEK NEAR BELMONT, NV

LOCATION.--Lat 38°48'22", long 116°40'43", in NW 1/4 SW 1/4 sec.10, T.11 N., R.47 E., Nye County, Hydrologic Unit 16060005, 17.9 mi northeast of Belmont, 27.4 mi east of Carvers on State Highway 376, and 59 mi northeast of Tonopah.

DRAINAGE AREA.--15.1 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.--Records fair except estimated daily discharges, which are poor.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft³/s, June 7, 1978, gage height, 3.55 ft; minimum daily, 0.04 ft³/s, September 12, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 4.0 ft³/s and maximum (*).

	Discharge				Gage height				Discharge				Gage height			
	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
	Jun 06	1845	*13	*1.72	No other peak greater than base discharge.											
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999																
DAILY MEAN VALUES																
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1	1.9	1.8	1.4	.81	.74	.72	.67	2.2	9.9	6.0	1.9	.97				
2	1.7	1.7	1.4	.79	.72	.73	.79	2.5	11	5.9	1.7	1.0				
3	1.6	1.6	1.4	.80	.73	.80	.81	2.5	11	5.7	1.6	1.1				
4	1.7	1.7	e1.4	.81	.75	.77	.77	2.4	11	5.6	1.6	1.0				
5	1.7	1.6	e1.4	.85	.72	.90	.75	2.5	11	5.8	1.6	.95				
6	1.6	1.5	1.4	.84	.70	.72	.73	3.2	12	5.5	1.5	.87				
7	1.6	1.6	1.8	.81	.70	.69	.70	4.0	11	5.2	1.5	.83				
8	1.5	1.6	1.7	.79	.72	.86	.91	5.0	10	5.2	1.4	.79				
9	1.5	1.4	1.3	.79	.75	.92	.85	5.0	10	5.1	1.3	.76				
10	1.5	1.3	1.3	.79	e.75	1.4	1.1	4.5	11	4.8	1.8	.79				
11	1.5	1.6	1.3	.79	e.74	.69	.83	4.6	11	4.4	1.6	.89				
12	1.5	1.5	1.2	.75	.74	.89	.79	5.7	11	4.2	1.4	.86				
13	1.5	1.6	1.2	.73	.70	.69	.94	5.7	11	4.3	1.3	1.2				
14	1.5	1.7	1.1	.72	.70	.70	.96	5.4	11	4.6	1.2	1.2				
15	1.5	1.6	1.0	.76	.69	.68	.95	5.4	11	4.1	1.2	1.0				
16	1.5	1.6	1.0	.75	.69	.70	1.1	5.5	11	3.7	1.1	.91				
17	1.5	1.5	1.1	.74	.69	.78	1.3	5.6	11	3.7	1.1	.89				
18	1.5	1.5	1.0	.73	.68	.90	1.6	5.9	10	3.1	1.0	.95				
19	1.6	1.3	1.0	.70	.67	.93	2.0	5.8	9.0	2.9	1.1	.96				
20	1.6	1.4	e.98	.71	e.67	.82	2.1	5.9	8.8	2.8	1.2	.94				
21	1.6	1.5	e.98	.70	.68	.74	2.2	6.1	9.3	2.6	1.6	.87				
22	1.6	1.4	e.98	.70	e.66	.78	1.6	6.2	8.6	2.6	1.7	.84				
23	1.6	1.4	e.97	.74	.65	.88	1.4	6.5	8.2	2.5	1.3	.88				
24	1.6	1.4	.97	.75	.66	.90	1.4	7.0	8.1	2.4	1.2	.87				
25	1.6	1.4	e.97	.75	.65	1.0	1.6	7.4	7.8	2.4	1.2	.80				
26	1.7	1.4	e.96	.75	e.66	.99	1.9	7.9	7.5	2.3	1.1	.78				
27	1.8	1.3	e.96	e.75	.66	1.0	2.0	8.2	7.2	2.2	1.3	.80				
28	1.7	1.4	.95	e.76	.70	.87	2.2	8.5	6.8	2.1	1.1	.83				
29	1.8	1.3	.92	.76	---	.86	1.9	8.8	6.4	2.1	.99	.83				
30	1.8	1.3	.88	.75	---	.84	1.8	9.3	6.1	2.0	.92	.80				
31	1.8	---	.86	.75	---	.76	---	9.6	---	2.0	.96	---				
TOTAL	50.1	44.9	35.78	23.62	19.57	25.91	38.65	174.8	288.7	117.8	41.47	27.16				
MEAN	1.62	1.50	1.15	.76	.70	.84	1.29	5.64	9.62	3.80	1.34	.91				
MAX	1.9	1.8	1.8	.85	.75	1.4	2.2	9.6	12	6.0	1.9	1.2				
MIN	1.5	1.3	.86	.70	.65	.68	.67	2.2	6.1	2.0	.92	.76				
AC-FT	99	89	71	47	39	51	77	347	573	234	82	54				

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1999, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.80	.74	.60	.54	.52	.68	1.55	6.64	11.3	3.42	1.30	.82										
MAX	1.87	1.67	1.15	1.17	1.02	1.47	3.66	17.3	56.7	16.4	4.79	2.36										
(WY)	1996	1996	1999	1996	1988	1988	1985	1979	1995	1995	1995	1995										
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 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1978 - 1999			
ANNUAL TOTAL	2207.12				888.46							
ANNUAL MEAN	6.05				2.43				2.41			
HIGHEST ANNUAL MEAN									7.87			
LOWEST ANNUAL MEAN									.66			
HIGHEST DAILY MEAN	48 Jun 18				12 Jun 6				79 Jun 8 1978			
LOWEST DAILY MEAN	.21 Jan 19				.65 Feb 23				.04 Sep 12 1990			
ANNUAL SEVEN-DAY MINIMUM	.25 Jan 16				.66 Feb 21				.04 Sep 10 1990			
INSTANTANEOUS PEAK FLOW					13 Jun 6				92 Jun 7 1978			
INSTANTANEOUS PEAK STAGE					1.72 Jun 6				3.55 Jun 7 1978			
ANNUAL RUNOFF (AC-FT)	4380				1760				1750			
10 PERCENT EXCEEDS	19				6.6				4.6			
50 PERCENT EXCEEDS	1.6				1.4				.80			
90 PERCENT EXCEEDS	.39				.73				.32			

e Estimated

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 upstream at datum 5.50 ft lower.

REMARKS.--Records poor. Two diversions above station. Flow affected by storage in Groves Reservoir, capacity, 190 acre-ft about 4 mi upstream since January 1970, when installation was completed by Nevada Department of Fish and Game for fishery enhancement and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 385 ft³/s, May 28, 1983, gage height, 3.19 ft; maximum gage height, 3.86 ft, June 3, 1995; minimum daily, 1.7 ft³/s, December 28, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 50 ft³/s, August 3, gage height, 2.2 ft; minimum daily, 4.6 ft³/s, November 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	9.7	6.2	6.0	7.5	6.5	8.8	37	21	14	10
2	12	11	8.9	6.2	6.0	7.8	6.4	9.0	40	21	24	9.9
3	12	11	8.3	6.1	5.8	7.8	6.5	9.2	39	21	44	9.6
4	12	10	7.6	6.1	5.7	7.7	6.4	9.2	38	21	42	9.5
5	12	10	7.2	6.2	5.7	7.6	6.4	9.3	39	20	33	9.3
6	12	10	7.0	6.2	5.9	7.7	6.3	9.6	38	20	22	9.2
7	12	10	6.9	6.1	6.1	7.4	6.2	10	38	18	19	8.9
8	12	10	6.8	5.8	6.1	7.7	6.3	10	38	18	17	8.2
9	12	10	6.7	5.7	6.7	7.6	6.2	11	34	17	16	8.3
10	12	10	6.5	5.7	7.1	7.7	6.0	12	32	18	15	9.3
11	12	9.9	6.5	5.9	7.1	7.5	6.0	13	30	17	14	9.9
12	12	9.7	7.6	5.7	7.1	7.5	6.0	14	31	17	13	8.9
13	12	9.7	7.4	5.7	7.2	7.5	6.3	15	32	16	13	8.7
14	12	9.6	8.2	5.6	7.0	7.2	6.4	15	34	17	13	8.4
15	12	9.5	8.3	5.7	6.9	6.7	6.6	16	33	17	12	8.0
16	12	9.5	8.3	6.0	6.9	6.8	6.6	16	33	15	12	8.1
17	12	9.1	8.0	6.0	6.8	6.8	6.8	16	34	15	12	8.2
18	12	8.8	7.9	6.0	6.8	6.8	7.0	17	30	15	11	8.2
19	12	8.4	7.9	5.8	6.9	6.8	6.9	17	31	15	11	8.1
20	12	8.5	8.0	5.8	6.9	6.7	7.0	19	31	16	11	8.2
21	12	9.4	7.7	5.9	7.3	6.6	7.3	26	31	16	13	7.9
22	12	8.8	7.6	5.9	7.5	6.5	7.6	30	28	15	12	7.8
23	12	8.8	7.7	5.9	7.5	6.6	7.9	29	26	14	11	7.7
24	12	8.3	7.4	6.0	7.5	6.5	8.2	28	26	13	11	7.6
25	12	7.4	7.3	5.8	7.5	6.6	8.4	32	24	13	11	7.5
26	13	7.0	6.9	5.9	7.6	6.6	8.5	33	24	14	10	7.4
27	12	6.4	6.7	6.0	7.6	6.6	8.8	37	23	15	12	7.6
28	11	5.4	6.5	6.0	7.5	6.7	9.1	36	22	15	12	7.7
29	12	4.6	6.1	5.7	---	6.6	8.8	35	22	15	10	7.3
30	12	6.5	6.0	5.9	---	6.4	8.6	36	22	14	9.9	7.3
31	11	---	6.3	6.0	---	6.4	---	38	---	14	10	---
TOTAL	371	268.3	229.9	183.5	190.7	218.9	212.0	616.1	940	513	489.9	252.7
MEAN	12.0	8.94	7.42	5.92	6.81	7.06	7.07	19.9	31.3	16.5	15.8	8.42
MAX	13	11	9.7	6.2	7.6	7.8	9.1	38	40	21	44	10
MIN	11	4.6	6.0	5.6	5.7	6.4	6.0	8.8	22	13	9.9	7.3
AC-FT	736	532	456	364	378	434	421	1220	1860	1020	972	501

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

	MEAN	6.47	5.77	5.13	4.75	4.62	5.19	7.75	18.6	23.8	14.3	9.94	7.54
MAX	12.9	12.7	10.3	9.62	8.86	11.6	45.3	106	79.7	42.4	19.6	13.6	
(WY)	1984	1984	1984	1984	1984	1984	1984	1984	1998	1998	1984	1984	
MIN	3.17	3.14	2.85	2.64	2.75	2.96	2.99	4.71	6.10	5.92	4.24	3.76	
(WY)	1967	1967	1967	1967	1982	1967	1967	1968	1981	1992	1972	1992	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1967 - 1999

ANNUAL TOTAL	7218.7	4486.0	
ANNUAL MEAN	19.8	12.3	9.51
HIGHEST ANNUAL MEAN			29.3
LOWEST ANNUAL MEAN			4.65
HIGHEST DAILY MEAN	93	Jun 24	44
LOWEST DAILY MEAN	4.0	Jan 6	4.6
ANNUAL SEVEN-DAY MINIMUM	4.2	Jan 1	5.7
INSTANTANEOUS PEAK FLOW			50
INSTANTANEOUS PEAK STAGE			2.20
ANNUAL RUNOFF (AC-FT)	14320	8900	6890
10 PERCENT EXCEEDS	53	26	15
50 PERCENT EXCEEDS	10	8.9	6.2
90 PERCENT EXCEEDS	4.5	6.1	3.7

BIG SMOKY VALLEY (NORTHERN PART)
10249300 SOUTH TWIN RIVER NEAR ROUND MOUNTAIN, NV

(Hydrologic Benchmark Station)

LOCATION.--Lat 38°53'15", long 117°14'40", in SW 1/4 NE 1/4 sec.22, T.12 N., R.42 E., Nye County, Hydrologic Unit 16060004, in Toiyabe National Forest, on right bank, 600 ft upstream from diversion, 3 mi west of State Highway 376, and 15 mi northwest of Round Mountain.

DRAINAGE AREA.--20 mi², approximately.

PERIOD OF RECORD.--1964 (miscellaneous site), 1965 (low-flow, partial-record site), August 1965 to current year.

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

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 510 ft³/s, May 29, 1983, gage height, 4.39 ft; minimum daily, 0.35 ft³/s, August 27, 1991.

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 26	2145	*56.0	*2.73	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.9	3.6	3.4	e3.0	3.5	5.0	20	46	22	6.1	3.2
2	2.9	4.6	3.5	3.4	e3.0	3.6	4.3	34	46	21	6.4	3.2
3	3.0	4.4	3.4	3.4	e2.9	3.9	4.5	32	45	21	6.3	3.2
4	3.2	4.3	3.1	3.4	e2.9	4.1	4.2	28	43	20	6.2	3.1
5	3.2	4.2	e3.2	3.4	e2.8	4.0	4.4	28	41	19	6.1	3.0
6	3.3	3.8	e3.3	3.3	e2.7	3.9	4.4	31	39	19	6.3	2.8
7	3.3	4.1	e3.4	3.2	e2.7	3.8	5.0	38	38	18	6.5	2.7
8	3.3	4.2	e3.5	3.2	e2.6	3.6	5.3	41	38	18	6.5	2.7
9	3.6	4.1	e3.6	3.3	e2.5	e3.6	5.8	42	38	17	6.5	2.6
10	4.0	3.8	e3.7	3.3	e2.5	e3.7	7.1	38	37	16	7.2	2.6
11	4.2	4.2	3.8	3.2	e2.5	3.8	5.5	36	36	17	7.2	2.7
12	4.3	4.1	3.7	3.1	e2.6	4.1	6.1	38	34	16	6.8	2.6
13	4.5	4.2	3.7	3.1	e2.7	3.8	7.4	44	33	15	6.2	2.5
14	5.1	4.4	3.8	3.1	e2.7	3.8	12	42	34	16	6.1	2.6
15	5.7	4.4	3.8	3.1	e2.8	3.7	14	39	35	15	6.1	2.5
16	6.0	4.3	3.8	3.0	e2.8	3.6	15	35	35	15	6.0	2.4
17	5.9	4.4	3.8	3.1	e2.8	3.7	15	38	38	14	5.9	2.6
18	6.1	4.2	3.8	3.1	e2.9	3.9	14	36	37	14	5.8	2.7
19	6.2	3.8	3.9	3.1	e2.9	4.0	15	40	37	13	5.4	2.7
20	6.1	3.9	e3.9	3.1	e3.0	4.0	16	43	35	11	5.5	2.7
21	6.1	4.1	e3.8	3.1	e3.1	4.0	16	46	35	11	4.7	2.5
22	6.1	4.1	e3.8	3.0	3.1	4.1	14	47	34	10	3.7	2.4
23	6.0	4.0	e3.8	3.1	3.2	4.2	12	46	33	9.5	3.3	2.4
24	6.3	3.8	e3.7	e3.0	3.2	4.2	11	43	29	8.8	3.3	2.4
25	6.8	3.7	e3.6	e3.0	3.2	4.4	13	46	29	8.0	3.1	2.3
26	6.7	3.7	3.3	e3.0	3.3	4.5	16	52	27	7.4	3.0	2.2
27	6.4	3.9	3.1	e3.0	3.3	4.6	17	52	26	6.7	3.2	2.2
28	5.6	3.9	3.1	e3.0	3.3	4.5	18	52	25	6.1	3.0	2.3
29	5.6	3.8	3.3	e3.0	---	4.5	17	50	24	5.7	2.8	2.4
30	5.6	3.7	3.3	e3.0	---	4.4	17	51	23	5.5	2.7	2.3
31	5.0	---	3.4	e3.0	---	4.4	---	48	---	5.6	3.1	---
TOTAL	153.4	123.0	110.5	97.5	81.0	123.9	321.0	1256	1050	421.3	161.0	78.5
MEAN	4.95	4.10	3.56	3.15	2.89	4.00	10.7	40.5	35.0	13.6	5.19	2.62
MAX	6.8	4.9	3.9	3.4	3.3	4.6	18	52	46	22	7.2	3.2
MIN	2.9	3.7	3.1	3.0	2.5	3.5	4.2	20	23	5.5	2.7	2.2
AC-FT	304	244	219	193	161	246	637	2490	2080	836	319	156

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	2.47	2.65	2.46	2.39	2.60	4.79	9.38	25.7	19.9	6.51	2.97	2.25
MAX	5.37	5.58	5.80	6.25	5.66	12.4	22.3	92.0	80.1	31.8	11.1	6.24
(WY)	1984	1984	1984	1984	1984	1995	1969	1983	1998	1998	1983	1983
MIN	1.25	1.37	1.06	.92	1.08	1.74	3.31	4.03	4.17	1.37	.88	.51
(WY)	1987	1991	1991	1991	1994	1991	1970	1990	1990	1966	1994	1987

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1965 - 1999

ANNUAL TOTAL	6599.1	3977.1	
ANNUAL MEAN	18.1	10.9	7.02
HIGHEST ANNUAL MEAN			20.1
LOWEST ANNUAL MEAN			2.40
HIGHEST DAILY MEAN	121	52	338
LOWEST DAILY MEAN	1.5	2.2	.35
ANNUAL SEVEN-DAY MINIMUM	1.6	2.3	.40
INSTANTANEOUS PEAK FLOW		56	510
INSTANTANEOUS PEAK STAGE		2.73	4.39
ANNUAL RUNOFF (AC-FT)	13090	7890	5090
10 PERCENT EXCEEDS	61	36	16
50 PERCENT EXCEEDS	5.6	4.2	3.0
90 PERCENT EXCEEDS	2.5	2.8	1.4

e Estimated

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figure 16..

Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Central Region								
Dixie Valley tributary near Eastgate, NV (10244360)	Lat 39°17'30", long 117°59'00", in SE ¹ / ₄ sec.36, T.17 N., R.35 E., Churchill County, Hydrologic Unit 16060001, at culvert on U.S. Highway 50, and 6 mi west of Eastgate. Drainage area is approximately 11 mi ² .	1961-99	11-16-98	3.89	18	8-61	15.00	1,480
Illipah Creek near Hamilton, NV (10245445)	Lat 39°19'07", long 115°23'39", in NE ¹ / ₄ NW ¹ / ₄ sec.25, T.16 S., R.58 E., White Pine County, Hydrologic Unit 16060007, in Humboldt National Forest, 6.7 mi northeast of Hamilton. Drainage area is 31.5 mi ² .	1983-87 ⁺ , 1999	5-20-99	1.92	5.8	8-22-84	6.05	446
Smith Creek Valley tributary near Austin, NV (10249417)	Lat 39°32'21", long 117°28'26", in NE ¹ / ₄ SE ¹ / ₄ sec.4, T.19 N., R.40 E., Lander County, Hydrologic Unit 16060002, at culvert on U.S. Highway 50, and 22 mi west of Austin. Drainage area is approximately 0.62 mi ² .	1968-79 1981-82 1984, 1988, 1993-99	10-26-98	3.23	^e 5	7-84	--	130
Big Smokey Valley tributary near Tonopah, NV (10249620)	Lat 38°01'52", long 117°13'52", in SW ¹ / ₄ NE ¹ / ₄ sec.14, T.2 N.,R.42 E., Esmeralda County, Hydrologic Unit 16060003, at culvert on U.S. Highway 95, and 2.5 mi south of Tonopah. Drainage area is approximately 2.39 mi ² .	1961-81 1988-89 1999	1998	--	*	1961	--	10

^e Estimated

* No evidence of any flow during the water year

⁺ Operated as continuous record station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Monitor Valley-Diamond Valley System					
Andrews Creek near Belmont, NV (10245901)	Monitor Valley	Lat 38°46'01", long 116°50'09", in SW ¹ / ₄ NE ¹ / ₄ sec.30, T.11 N., R.46 E., Nye County, Hydrologic Unit 16060005, 2.4 mi west of Pine Creek Ranch and 12 mi north at Belmont. Drainage area is 7.09 mi ² .	1997-99	10/06/1998	0.5
				05/04/1999	2.1
				06/15/1999	3.2
				07/27/1999	.33
				09/08/1999	.09
Corcaran Creek near Belmont, NV (10245902)	Monitor Valley	Lat 38°40'48", long 116°48'51", in SW ¹ / ₄ NW ¹ / ₄ sec.28, T.10 N., R.46 E., Nye County, Hydrologic Unit 16060005, 6.8 mi northeast of Belmont. Drainage area is 6.64 mi ² .	1997-99	10/06/1998	.67
				05/04/1999	.52
				06/15/1999	.49
				07/27/1999	.38
				09/08/1999	.32
Barley Creek near Belmont, NV (10245905)	Monitor Valley	Lat 38°37'36", long 116°41'45", in NW ¹ / ₄ NE ¹ / ₄ sec.16, T.09 N., R.47 E., Nye County, Hydrologic Unit 16060005, 10 mi east of Belmont. Drainage area is 33.7 mi ² .	1997-99	10/06/1998	2.0
				05/04/1999	7.6
				06/15/1999	11.8
				07/27/1999	.86
				09/08/1999	.83
Morgan Creek near Belmont, NV (10245912)	Monitor Valley	Lat 38°37'24", long 116°51'53", in SE ¹ / ₄ NE ¹ / ₄ sec.19, T.12 N., R.48 E., Nye County, Hydrologic Unit 16060005, 12.5 mi west of Pine Creek Ranch and 17.6 mi north of Belmont. Drainage area is 3.87 mi ² .	1997-99	10/07/1998	.44
				05/04/1999	1.1
				06/16/1999	3.8
				07/28/1999	.89
				09/09/1999	.15

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 122 ft, cased to 122 ft, perforated 20 to 120 ft.

INSTRUMENTATION.--Water-level recorder August 1983 to April 1998, hourly.

DATUM.--Elevation of land-surface datum is 6,037 ft above sea level, from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum or arrow on gage floor, 3.86 ft above land-surface datum.

REMARKS.--In Steptoe Valley. Missing days due to equipment malfunction.

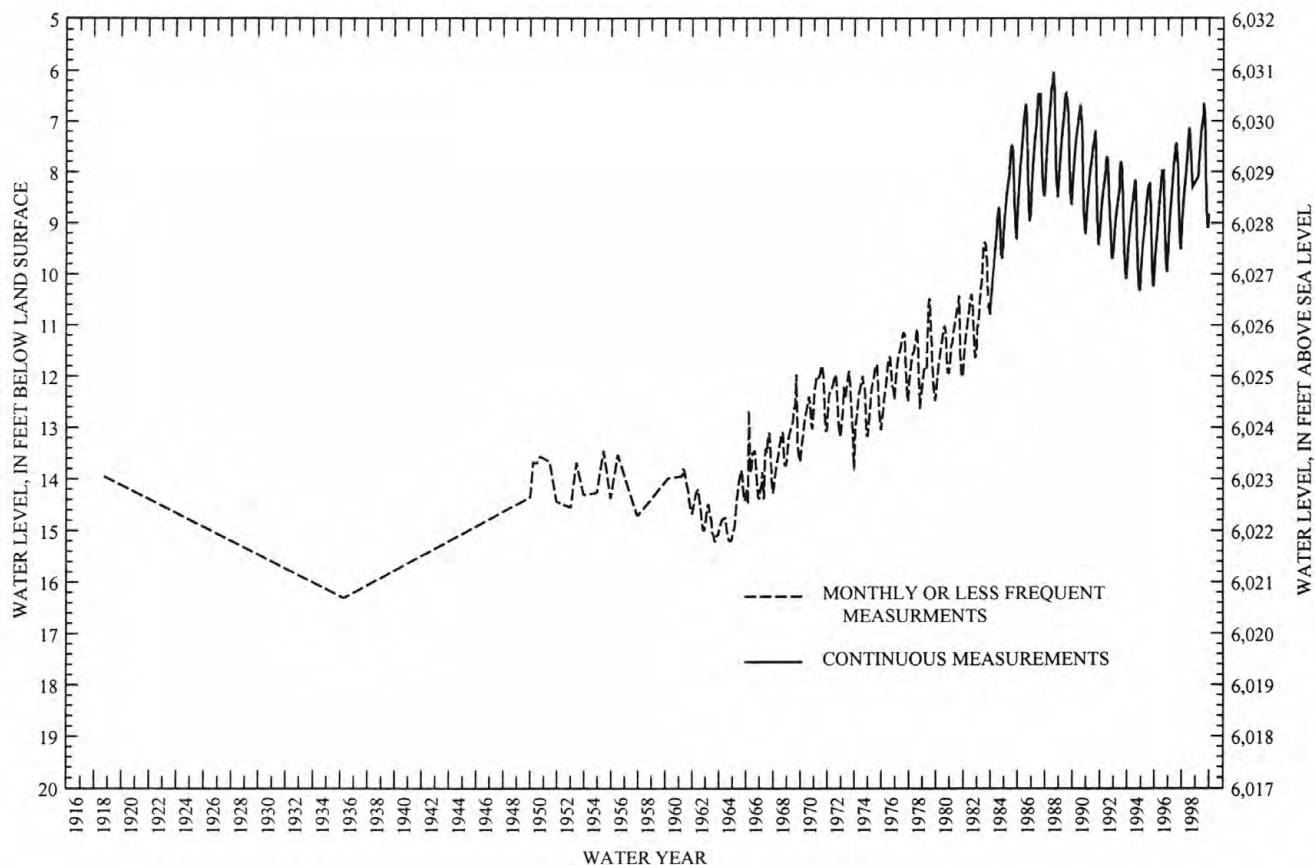
PERIOD OF RECORD.--1918, 1936, 1949 (unpublished and available in the files of the U.S. Geological Survey); 1950 through 1957, semi-annually; 1959, yearly; January 1961 through September 1983, monthly; October 1983 to April 1998, May to November 1998, intermittent; December 1998 to current year, four times per hour.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 6.03 ft below land-surface datum, May 5, 1988; lowest measured, 16.30 ft below land-surface datum, January 2, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	7.88	7.53	7.20	7.02	6.73	6.84	7.94	8.78	9.08
10	---	---	---	7.82	7.48	7.17	7.00	6.67	6.84	8.11	8.86	9.08
15	---	---	---	7.74	7.39	7.12	6.98	6.69	6.98	8.25	8.93	9.02
20	---	---	8.05	7.69	7.34	7.10	6.95	6.72	7.20	8.38	9.00	8.96
25	---	---	8.00	7.64	7.27	7.07	6.93	6.79	7.44	8.53	9.04	8.91
EOM	---	---	7.92	7.58	7.24	7.03	6.89	6.88	7.68	8.68	9.08	8.83

WATER YEAR 1999 HIGHEST 6.65 MAY 12 LOWEST 9.10 SEPTEMBER 3, 4



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

COAL VALLEY

380758115204601. Local number, 171 N03 E59 10BD1.

LOCATION.--Lat 38°08'15", long 115°20'20", Hydrologic Unit 16060004, in Nye County.

AQUIFER.--Alluvium of Quaternary age and Paleozoic Carbonate Rock.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 10 in., depth 1,837 ft, cased to 118 ft, open hole 118 ft to 1837 ft.

INSTRUMENTATION.--Water-level recorder November 1993 to May 1995, January to September 1999.

DATUM.--Elevation of land-surface datum is 5,560 ft above sea level, from topographic map. Measuring point: Top of casing, at land-surface datum.

REMARKS.--In Coal Valley

PERIOD OF RECORD.--December 1980 to November 1993, intermittent; November 1993 to May 1995, continuous; May 1995 to January 1999, intermittent; January 1999 to September 1999, continuous.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 797.03 ft below land-surface datum, February 9, 1999; lowest recorded, 804.57 ft below land-surface datum, March 13, 1992.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	797.46	797.94	797.43	797.63	797.53	797.57	797.67	797.57
2	---	---	---	---	797.39	797.40	798.05	797.50	797.45	797.51	797.75	797.61
3	---	---	---	---	797.24	797.21	797.40	797.41	797.54	797.56	797.72	797.67
4	---	---	---	---	797.14	797.28	797.50	797.64	797.57	797.67	797.66	797.78
5	---	---	---	---	797.87	797.80	797.54	797.79	797.68	797.78	797.59	797.75
6	---	---	---	---	797.91	797.27	797.57	798.26	797.65	797.72	797.62	797.70
7	---	---	---	---	797.29	797.24	797.57	797.58	797.58	797.72	797.70	798.11
8	---	---	---	---	797.28	797.41	797.60	797.50	797.58	797.76	797.70	797.76
9	---	---	---	---	797.13	797.37	797.62	797.58	798.21	797.78	797.65	797.70
10	---	---	---	---	797.42	797.40	798.27	797.66	797.65	797.79	797.64	797.69
11	---	---	---	---	797.65	797.34	797.63	797.68	798.30	797.73	797.70	797.74
12	---	---	---	---	798.52	797.56	797.70	797.54	797.76	797.72	797.76	797.80
13	---	---	---	---	797.95	797.52	798.33	797.51	797.73	797.66	797.69	797.79
14	---	---	---	---	797.25	797.40	797.81	797.57	797.69	797.59	797.61	797.71
15	---	---	---	---	797.37	797.88	797.77	797.63	797.64	797.62	797.72	797.70
16	---	---	---	---	797.32	797.96	797.73	797.73	797.64	797.65	797.83	797.74
17	---	---	---	---	797.30	797.51	797.73	797.73	797.68	797.66	797.80	798.28
18	---	---	---	---	797.28	797.55	797.72	797.60	797.68	797.70	797.70	798.48
19	---	---	---	---	797.41	798.14	797.65	797.59	797.64	797.69	797.72	797.74
20	---	---	---	---	798.02	797.44	797.52	797.60	797.61	797.65	797.75	797.83
21	---	---	---	797.50	797.31	797.51	797.41	797.61	797.55	797.69	797.71	797.84
22	---	---	---	798.57	798.25	798.05	797.44	797.64	797.64	797.75	797.72	797.77
23	---	---	---	797.82	797.46	797.43	797.53	797.69	797.67	797.70	797.72	797.70
24	---	---	---	797.33	797.91	797.50	797.60	797.69	797.62	797.62	797.71	797.74
25	---	---	---	797.20	797.23	797.45	797.63	797.66	797.55	797.67	797.71	797.76
26	---	---	---	797.26	797.40	797.83	797.62	797.72	797.58	797.67	797.69	797.71
27	---	---	---	797.44	797.46	797.52	797.50	797.69	797.65	797.67	797.71	797.75
28	---	---	---	797.46	798.00	798.78	797.36	797.62	797.70	797.69	797.74	797.94
29	---	---	---	797.42	---	797.54	797.51	797.55	797.71	797.69	797.71	797.83
30	---	---	---	797.30	---	797.77	797.66	797.61	797.64	797.68	797.63	797.71
31	---	---	---	797.75	---	797.31	---	797.66	---	797.65	797.64	---
MAX	---	---	---	---	798.52	798.78	798.33	798.26	798.30	797.79	797.83	798.48
MIN	---	---	---	---	797.13	797.21	797.36	797.41	797.45	797.51	797.59	797.57

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 001, Churchill; 003, Clark; 005, Douglas; 011, Eureka; 017, Lincoln; 019, Lyon; 023, Nye; 031, Washoe; 033, White Pine.

Water-use codes: I, irrigation; N, industrial; S, stock; U, unused.

Depths, perforated interval, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Elevation is that of LSD, with reference to sea level.

Water Levels: Levels above LSD are listed as negative values.

Water Level Method: S, steel tape; T, electric tape; V, calibrated electric-tape measurement; Z, reported by Nevada Division of Water Resources.

Locations of following sites are shown in figures 19, 20 and 21.

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
						Top	Bottom		Date	Feet	Method
144 S06 E43 05CAD 1	372700117110001	1984-99	009	S				4622.	02/25/1999	286.95	T
147 S07 E48 12 1	372042116340501	1997-99	023	U	8788.	2506.	8788.	5591.80	10/05/1998	858.55	T
									05/10/1999	858.51	T
147 S07 E50 10 4	372034116222504	1998-99	023	U	2288.	2050.	2283.	6780.10	12/08/1998	2111.06	T
									03/17/1999	2110.90	T
									07/05/1999	2111.02	T
									09/07/1999	2110.93	T
147 S07 E50 32 4	371649116242102	1991-99	023		7731.	7543.	7731.	6557.80	12/01/1998	2096.58	T
									05/10/1999	2096.49	T
147 S07 E50 34 1	371714116230301	1999	023		2198.	57.	2198.	6669.94	12/03/1998	1984.48	T
									05/17/1999	1984.79	T
147 S07 E51 32 4	371736116184701	1994-99	023		2153.	57.	2153.	7034.50	12/03/1998	2134.93	T
									05/17/1999	2134.95	T
147 S08 E50 22 3	371349116222001	1996-99	023	U	2148.	70.	2148.	6767.90	12/03/1998	2089.81	T
									05/19/1999	2089.21	T
147 S08 E51 06 3	371608116191002	1975-99	023	N	8489.	2421.	8489.	7033.10	12/03/1998	2339.44	T
									03/17/1999	2339.61	T
									07/05/1999	2339.72	T
									09/08/1999	2339.76	T
153 N20 E53 10DDDD1	393613115585101	1988-99	011	I	200.	100.	200.	5956.	03/01/1999	140.40	Z
170 S01 E55 22A 1	375051115445301	1971-99	017	S				5050.	03/05/1999	286.97	V
170 S03 E54 24 1	374029115501901	1971-99	017	I	251.			4885.	03/05/1999	167.91	S
170 S03 E54 24 2	374020115494101	1999	017	I	327.			4860.	03/05/1999	139.15	S
170 S03 E54 24 3	373955115512901	1990-99	017	I	400.			4893.	03/05/1999	179.48	S
170 S03 E54 25 1	373943115495701	1948-99	017	U	165.			4880.	03/05/1999	153.64	S
170 S03 E55 23DC 1	373957115440501	1999	017	S	75.			4780.	08/26/1999	37.19	S
170 S03 E55 26BA 1	373944115454101	1990-99	017	S				4758.	09/21/1999	36.76	V
170 S03 E55 36AD 1	373838115424001	1971-99	017	U				4870.	03/02/1999	145.55	S
170 S03 E55 36ADDC1	373833115441101	1994-99	017	U	195.	175.	195.	4921.	03/02/1999	145.35	S
									08/26/1999	147.93	S
170 S03 E56 06CA 2	374247115433202	1990-99	017	S				4763.	03/02/1999	27.99	S
170 S04 E55 02CD 1	373729115442601	1969-99	017	S				4897.	09/21/1999	162.84	V
170 S04 E55 09BC 1	373704115465701	1971-99	017	U	232.			4940.	09/21/1999	162.42	V
171 N01 E58 24 1	375547115244201	1996-99	017	U	1560.	911.	1560.	4932.	08/23/1999	127.67	S
172 N03 E59 10BD 1*	380758115204601	1993-99	023	U	1837.			5560.	10/27/1998	797.60	T
									12/09/1998	797.98	V
									01/21/1999	797.48	T
									04/14/1999	797.73	V
									07/14/1999	797.63	V
173B N11 E57 09CDB 1	384920115343001	1990-99	023	S	186.			5075.	10/21/1998	159.80	S
									12/07/1998	159.94	V
									04/07/1999	160.28	V
									07/12/1999	160.18	V
179 N20 E64 32C 2*	393310114475001	1981-99	033	U	122.	20.	120.	6037.	06/17/1999	7.14	S

* Additional water-level data may be found in Ground-Water Levels, Primary Observation Wells section.

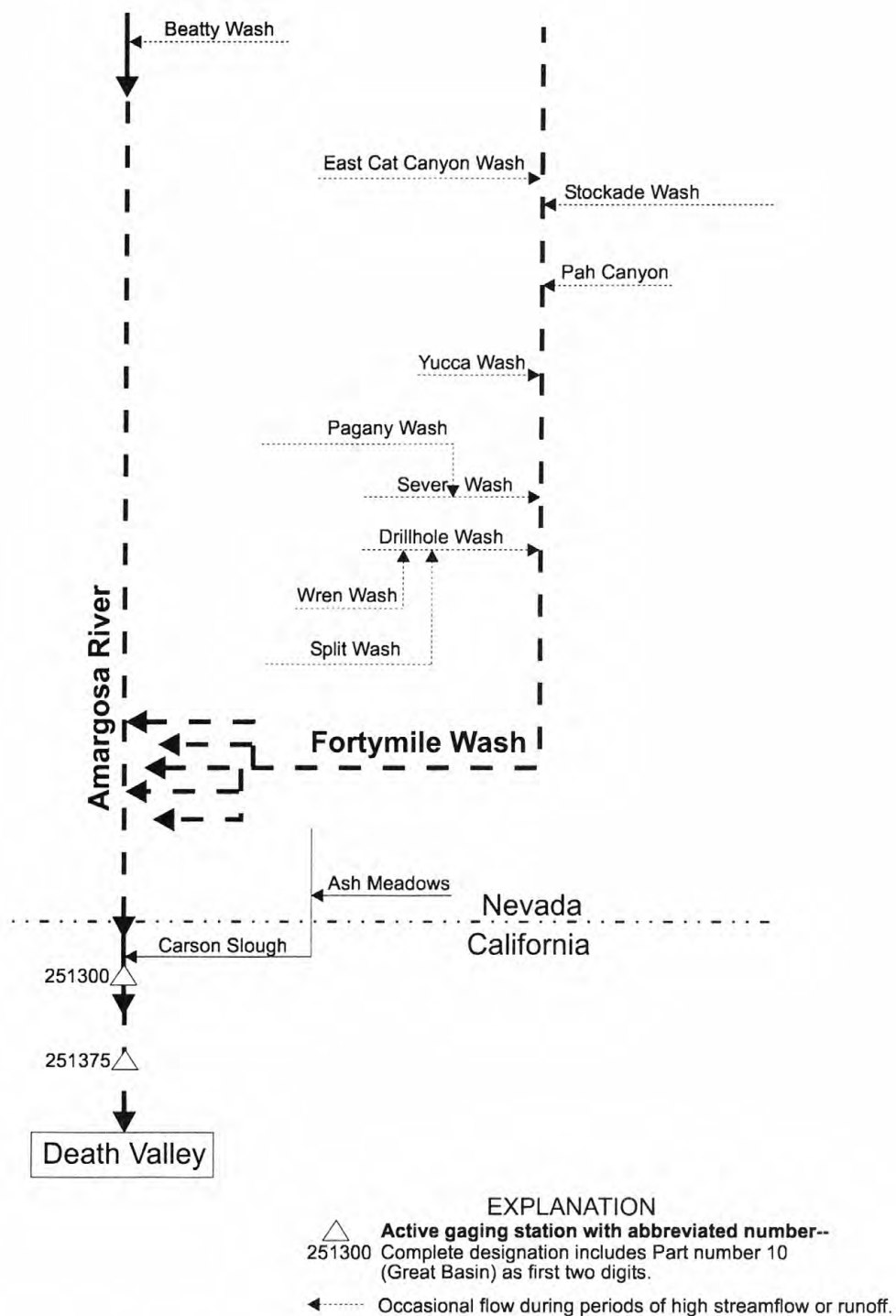


Figure 25. Schematic diagram of flow system and gaging stations in the Amargosa River basin.

UPPER AMARGOSA
10251300 AMARGOSA RIVER AT TECOPA, CA

LOCATION.--Lat 35°50'53", long 116°13'43", in NW 1/4 NW 1/4 SE 1/4 sec.9, T.20 N., R.07 E., Inyo County, Hydrologic Unit 18090202, on right bank, 20 ft upstream from Old Spanish Trail Road, and 0.2 mi west of Tecopa.

DRAINAGE AREA.--3,090 mi², approximately, much of which is noncontributing.

PERIOD OF RECORD.--October 1961 to August 1983, October 1991 to September 1995, 1998 miscellaneous discharge, January to September 1999.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 1,310 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. City of Tecopa pumps water for municipal use upstream. See schematic diagram of Amargosa River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s, August 19, 1983, determined from culvert computations and flow over road, gage height, 16.00 ft; no flow some days some years

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 24	2245	34	4.84	Jul 16	0945	19	4.60
Apr 30	1745	21	4.64	Sep 13	0015	*134	*5.62
Jul 13	1830	65	5.16	Sep 20	0430	38	4.88

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	e1.7	1.4	1.0	6.2	.12	.08	.06	.04
2	---	---	---	---	e1.6	1.4	1.0	2.6	e.14	.08	.06	.04
3	---	---	---	---	e1.6	1.3	.98	1.5	e.14	.09	.06	.04
4	---	---	---	---	e1.6	1.2	1.2	1.1	e.14	.09	.06	.04
5	---	---	---	---	e1.6	1.2	1.1	.95	e.14	.08	.06	.04
6	---	---	---	---	e1.6	1.2	1.1	.75	e.14	.09	.06	.04
7	---	---	---	---	e1.6	1.2	1.0	.69	e.14	.10	.06	.04
8	---	---	---	---	e1.6	1.1	.95	.52	e.14	.12	.05	.04
9	---	---	---	---	e1.6	1.1	e1.0	.48	e.14	.12	.06	.04
10	---	---	---	---	e1.6	1.1	e1.0	.45	e.14	.13	.06	.04
11	---	---	---	---	1.7	1.2	e1.0	.44	e.13	.13	.06	.03
12	---	---	---	---	1.4	1.2	1.1	.37	e.13	.15	.05	3.9
13	---	---	---	---	1.4	1.2	1.0	.32	e.12	6.9	.06	17
14	---	---	---	---	1.5	1.2	1.2	.29	e.12	.34	.06	.06
15	---	---	---	---	1.4	1.2	e1.0	.28	e.11	6.8	.06	.03
16	---	---	---	---	1.5	1.2	e1.0	.28	e.11	14	.05	.03
17	---	---	---	---	1.5	1.2	.85	.28	e.10	5.2	.05	.03
18	---	---	---	---	1.5	1.2	.81	.28	e.10	.95	.05	.04
19	---	---	---	---	1.5	1.2	e.80	.25	e.09	.16	.05	.23
20	---	---	---	---	1.4	1.2	e.80	.25	e.08	.09	.05	27
21	---	---	---	---	1.3	1.1	e.80	.23	.07	.07	.05	13
22	---	---	---	---	1.3	1.2	e.80	.23	.06	.07	.05	2.0
23	---	---	---	---	1.3	1.1	.76	.22	.07	.06	.05	.46
24	---	---	---	---	1.3	1.1	6.9	.22	.08	.06	.05	.09
25	---	---	---	1.9	1.3	1.2	11	.22	.07	.06	.04	.05
26	---	---	---	e1.7	1.3	1.2	3.0	.20	.07	.06	.05	.05
27	---	---	---	e1.7	1.3	1.2	1.6	.19	.08	.06	.05	.05
28	---	---	---	e1.7	1.3	1.2	1.2	.17	.08	.06	.05	.04
29	---	---	---	e1.7	---	1.1	2.1	.15	.08	.06	.04	.05
30	---	---	---	e1.7	---	1.0	11	.14	.08	.06	.04	.05
31	---	---	---	e1.7	---	.96	---	.14	---	.06	.04	---
TOTAL	---	---	---	---	41.3	36.56	59.05	20.39	3.21	36.38	1.64	64.59
MEAN	---	---	---	---	1.48	1.18	1.97	.66	.11	1.17	.053	2.15
MAX	---	---	---	---	1.7	1.4	11	6.2	.14	14	.06	27
MIN	---	---	---	---	1.3	.96	.76	.14	.06	.06	.04	.03
AC-FT	---	---	---	---	82	73	117	40	6.4	72	3.3	128

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

MEAN	1.66	.96	4.47	7.09	12.6	6.95	1.48	.50	.15	.55	6.53	4.62
MAX	39.1	11.4	65.3	56.2	95.6	54.2	13.4	3.19	2.55	3.52	103	93.1
(WY)	1977	1966	1966	1995	1993	1983	1977	1969	1965	1983	1976	
MIN	.000	.005	.39	.70	.69	.36	.074	.018	.000	.000	.000	.000
(WY)	1972	1993	1994	1994	1979	1994	1994	1993	1966	1963	1962	1964

SUMMARY STATISTICS

WATER YEARS 1962 - 1999

ANNUAL MEAN	4.00
HIGHEST ANNUAL MEAN	14.9
LOWEST ANNUAL MEAN	.22
HIGHEST DAILY MEAN	1500
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	10500
INSTANTANEOUS PEAK STAGE	16.00
ANNUAL RUNOFF (AC-FT)	2900
10 PERCENT EXCEEDS	2.6
50 PERCENT EXCEEDS	.23
90 PERCENT EXCEEDS	.00

e Estimated

DEATH VALLEY-LOWER AMARGOSA

10251375 AMARGOSA RIVER AT DUMONT DUNES NEAR DEATH VALLEY, CA

LOCATION.--Lat 35°41'43", long 116°15'07", in SW 1/4 NE 1/4 sec.32, T.19 N., R.07 E., San Bernardino, Hydrologic Unit 18090203, on left bank, 0.12 mi west of dirt road crossing Amargosa River and entrance to Dumont Dunes Recreation Area, and 13.9 mi south of turnoff to Tecopa on State Highway 127.

DRAINAGE AREA.--3,284 mi².

PERIOD OF RECORD.--February to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period February to September, 800 ft³/s, September 12, gage height, 9.83 ft; minimum daily, 0.30 ft³/s, July 3,4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	2.5	2.3	14	1.2	.52	.83	.53
2	---	---	---	---	---	2.5	2.3	4.9	1.8	.34	.85	.56
3	---	---	---	---	---	2.5	2.3	2.8	1.5	.30	.89	.60
4	---	---	---	---	---	2.4	2.4	2.5	1.4	.30	.83	.60
5	---	---	---	---	---	2.5	2.3	2.2	1.4	.39	.76	.57
6	---	---	---	---	---	2.5	2.3	2.1	1.3	.48	.75	.57
7	---	---	---	---	---	2.5	2.3	2.1	1.1	.44	.78	.58
8	---	---	---	---	---	2.5	2.3	e2.0	1.1	.47	.80	.58
9	---	---	---	---	---	2.4	2.2	e1.9	1.1	.71	.79	.56
10	---	---	---	---	---	2.4	2.2	e1.8	1.1	1.9	.75	.57
11	---	---	---	---	---	2.4	2.2	e1.7	1.1	.85	.75	.58
12	---	---	---	---	2.3	2.4	2.4	e1.6	1.0	.83	.77	18
13	---	---	---	---	2.3	2.4	2.6	e1.6	.99	.81	.74	25
14	---	---	---	---	2.4	2.4	2.3	e1.5	.91	3.7	.69	2.6
15	---	---	---	---	2.4	2.5	2.2	e1.5	.86	1.5	.68	1.1
16	---	---	---	---	2.4	2.5	2.1	e1.4	.81	4.5	.70	1.0
17	---	---	---	---	2.4	2.5	2.1	e1.4	.84	7.5	.69	1.0
18	---	---	---	---	2.4	2.4	2.1	e1.4	.83	2.3	.64	1.5
19	---	---	---	---	2.4	2.4	2.1	e1.4	.85	1.8	.59	1.3
20	---	---	---	---	2.4	2.4	2.0	e1.5	.82	1.4	.59	14
21	---	---	---	---	2.4	2.4	2.0	e1.5	.78	1.2	.57	32
22	---	---	---	---	2.4	2.4	2.0	e1.5	.79	1.1	.57	14
23	---	---	---	---	2.4	2.4	2.1	1.5	.77	1.0	.56	3.6
24	---	---	---	---	2.5	2.4	13	1.6	.73	.96	.65	1.6
25	---	---	---	---	2.5	2.4	30	1.6	.66	.96	.60	1.2
26	---	---	---	---	2.5	2.3	5.5	1.4	.65	.97	.58	1.1
27	---	---	---	---	2.5	2.3	3.0	1.3	.67	.95	.60	.92
28	---	---	---	---	2.5	2.3	2.5	1.3	.71	.88	.55	.76
29	---	---	---	---	---	2.3	3.1	1.2	.64	.91	.54	.86
30	---	---	---	---	---	2.3	7.1	1.2	.59	.99	.44	.92
31	---	---	---	---	---	2.3	---	1.2	---	.88	.45	---
TOTAL	---	---	---	---	41.1	74.8	115.3	66.6	29.00	41.84	20.98	128.76
MEAN	---	---	---	---	2.42	2.41	3.84	2.15	.97	1.35	.68	4.29
MAX	---	---	---	---	2.5	2.5	30	14	1.8	7.5	.89	32
MIN	---	---	---	---	2.3	2.3	2.0	1.2	.59	.30	.44	.53
AC-FT	---	---	---	---	82	148	229	132	58	83	42	255

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	32	Sep 21
LOWEST DAILY MEAN	.30	Jul 3
ANNUAL SEVEN-DAY MINIMUM	.39	Jul 2
INSTANTANEOUS PEAK FLOW	800	Sep 12
INSTANTANEOUS PEAK STAGE	9.83	Sep 12
10 PERCENT EXCEEDS	2.5	
50 PERCENT EXCEEDS	1.5	
90 PERCENT EXCEEDS	.58	

e Estimated

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MISCELLANEOUS SITES

The following table contains discharge data for the sites that were measured during 1998 water year and not previously published.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Amargosa River Basin					
Beatty Wash near Beatty, NV (10251215)	Amargosa River	Lat 36°56'37", long 116°43'09", in NE¼NE¼ sec.33, T.11 S., R.47 E., Nye County, Hydrologic Unit 18090202, on upstream side and center web of culverts, at U.S. Highway 95, and 300 ft upstream from confluence with the Amargosa River. Drainage area is 94.6 mi ² .	1989-95, 1998	02-23-1998	30
Amargosa River at Beatty, NV (10251217)	Death Valley	Lat 36°54'38", long 116°45'23", in SW¼NW¼ sec.07, T.12 S., R.47 E., Nye County, Hydrologic Unit 18090202, on upstream side of culvert, under U.S. Highway 95, approximately 0.5 mi north of intersection of State Highway 374 and U.S. Highway 95. Drainage area is 458 mi ² .	1993-98	02-23-1998	90
Stockade Wash Tributary below Rattlesnake Ridge, Nevada Test Site, NV	Fortymile Wash	Lat 37°09'51", long 116°16'04", in SW¼SW¼ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 1.2 mi downstream from previous gage (10251248) 2.8 mi above confluence with Stockade Wash, and 38 mi northwest of Mercury.	1998	09-4,5-1998	e20
Stockade Wash Tributary below Landmark Rock, Nevada Test Site, NV	Fortymile Wash	Lat 37°09'20", long 116°16'12", in SW¼SW¼ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 1.9 mi downstream from previous gage (10251248) 1.3 mi above confluence with Stockade Wash, and about 37 mi northwest of Mercury.	1998	9-4,5-1998	e700
Amargosa River at Big Dune, near Amargosa Valley, NV (10251225)	Death Valley	Lat 36°37'56", long 116°36'39", in NW¼SW¼ sec.19, T.15 S., R.47 E., Nye County, Hydrologic Unit 18090202, about 4 mi southwest of Mojave Road, and about 4.5 mi west of Amargosa Farm Road. Drainage area is 842 mi ² .	1998	02-23-1998	20
Stockade Wash below Pahute Mesa Road, Nevada Test Site, NV	Fortymile Wash	Lat 37°09'43", long 116°15'47", in SW¼SW¼ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.15 downstream from Pahute Mesa Road, and about 36 mi northwest of Mercury.	1998	9-4,5-98	200
Stockade Wash at Landing Strip, Nevada Test Site, NV	Fortymile Wash	Lat 37°06'22", long 116°18'36", in SW¼SW¼ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, along east side of landing strip near Buckboard Mesa, 3.1 mi upstream from previous gage (10251249) 3.3 mi above confluence with Fortymile Wash, and about 35 mi northwest of Mercury.	1998	9-4,5-98	e300

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)
Amargosa River Basin--Continued					
Stockade Wash below Tippipah Spring Road, Nevada Test Site, NV	Fortymile Wash	Lat 37°05'12", long 116°19'08", in SW ¹ / ₄ SW ¹ / ₄ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.45 mi downstream of Tippipah Spring Road, 1.6 mi upstream from previous gage (10251249) 1.8 mi above confluence with Fortymile Wash, and about 35 mi northwest of Mercury.	1998	9-4,5-98	e50
Pah Canyon Wash above Fortymile Wash Confluence, Nevada Test Site, NV (102512495)	Fortymile Wash	Lat 36°56'34", long 116°22'17", in SW ¹ / ₄ SW ¹ / ₄ sec.29, T.11 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, about 1,000 ft above confluence with Fortymile Wash, and about 29 mi northwest of Mercury. Drainage area is 6.28 mi ² .	1998	02-23-1998	90
Unnamed Tributary to Fortymile Wash North of Delirium Canyon, Nevada Test Site, NV (102512496)	Fortymile Wash	Lat 36°55'17", long 116°22'20", in NW ¹ / ₄ NW ¹ / ₄ sec.02, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, approximately 7 mi upstream of H-road crossing Fortymile Wash, and about 30 mi northwest of Mercury. Drainage area is 1.14 mi ² .	1998	02-23-1998	180
Delirium Canyon Wash above Fortymile Wash Confluence, Nevada Test Site, NV (102512497)	Fortymile Wash	Lat 36°55'09", long 116°22'21", in SW ¹ / ₄ SW ¹ / ₄ sec.02, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, about 50 ft above road crossing Fortymile Wash confluence, approximately 7 mi upstream of H-road crossing Fortymile Wash, and 29 mi northwest of Mercury. Drainage area is 2.37 mi ² .	1998	02-23-1998	120
Unnamed Tributary to Fortymile Wash South of Delirium Canyon, Nevada Test Site, NV (102512499)	Fortymile Wash	Lat 36°54'45", long 116°22'20", in NE ¹ / ₄ NE ¹ / ₄ sec.10, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, about 500 ft above road crossing near Fortymile Wash confluence, approximately 7 mi upstream of H-road crossing Fortymile Wash, and 28.5 mi northwest of Mercury. Drainage area is 0.81 mi ² .	1998	02-23-1998	70
Fortymile Wash at Narrows, Nevada Test Site, NV (10251250)	Amargosa River	Lat 36°53'13", long 116°22'50", in SW ¹ / ₄ NE ¹ / ₄ sec.15, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 5 mi upstream of H-road crossing Fortymile Wash, 19 mi north of intersection between U.S. Highway 95 and State Route 373, and 27 mi northwest of Mercury. Drainage area is 258 mi ² .	1983-98	02-23-1998	200
Yucca Wash near Mouth, Nevada Test Site, NV (10251252)	Fortymile Wash	Lat 36°51'58", long 116°23'38", in SE ¹ / ₄ NE ¹ / ₄ sec.28, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.35 mi above confluence with Fortymile Wash, and 26 mi northwest of Mercury. Drainage area is 17 mi ² .	1982-95, 1998	02-23-1998	220

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)
Amargosa River Basin--Continued					
Pagany Wash near The Prow, Nevada Test Site, NV (102512531)	Sever Wash	Lat 36°52'06", long 116°26'50", in NE ¹ / ₄ NE ¹ / ₄ sec.25, T.12 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 12.9 mi northwest of Hydrologic Research Facility on Jackass Flats, and 35.5 mi northwest of Mercury. Drainage area is 0.47 mi ² .	1994-95, 1998	02-23-1998	20
Pagany Wash #1 near Well UZ-4, Nevada Test Site, NV (102512533)	Sever Wash	Lat 36°51'39", long 116°26'08", in NE ¹ / ₄ SW ¹ / ₄ sec.30, T.12 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.3 mi upstream of Well UZ-4, 12.4 mi northwest of Hydrologic Research Facility on Jackass Flats, and 35 mi northwest of Mercury. Drainage area is 0.82 mi ² .	1993-95, 1998	02-23-1998	17
Drillhole Wash above Well UZ-1, Nevada Test Site, NV (102512535)	Fortymile Wash	Lat 36°51'57", long 116°27'25", in SE ¹ / ₄ NW ¹ / ₄ sec.14, T.12 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 13.7 mi northwest of Hydrologic Research Facility on Jackass Flats, and 36 mi northwest of Mercury. Drainage area is 0.68 mi ² .	1994-95, 1998	02-23-1998	^e <4.0
Wren Wash at Yucca Mountain, Nevada Test Site, NV (1025125356)	Drillhole Wash	Lat 36°51'34", long 116°27'15", in NE ¹ / ₄ SW ¹ / ₄ sec.14, T.12 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 12.9 mi northwest of Hydrologic Research Facility on Jackass Flats, and 34.5 mi northwest of Mercury. Drainage area is 0.23 mi ² .	1994-95, 1998	02-23-1998	^e <5.0
Split Wash below Quac Canyon Wash, Nevada Test Site, NV (102512537)	Drillhole Wash	Lat 36°50'57", long 116°26'54", in NW ¹ / ₄ SE ¹ / ₄ sec.36, T.12 S., R.49 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 13.1 mi northwest of Hydrologic Research Facility on Jackass Flats, and 34.7 mi northwest of Mercury. Drainage area is 0.33 mi ² .	1993-95, 1998	02-23-1998	13
Split Wash at Antler Ridge, Nevada Test Site, NV (1025125372)	Drillhole Wash	Lat 36°50'36", long 116°26'26", in SW ¹ / ₄ SW ¹ / ₄ sec.14, T.12 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 12.5 mi northwest of Yucca Mountain Field Operations Center, and about 34 mi northwest of Mercury. Drainage area is 2.35 mi ² .	1993-94, 1998	02-23-1998	^e <2.0
Drillhole Wash at Mouth, Nevada Test Site, NV (10251254)	Fortymile Wash	Lat 36°49'13", long 116°23'52", in SW ¹ / ₄ NW ¹ / ₄ sec.18, T.13 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.15 mi above confluence with Fortymile Wash, and 25 mi northwest of Mercury. Drainage area is 16.3 mi ² .	1983-95, 1998	02-23-1998	25
Fortymile Wash near Well J-13, Nevada Test Site, NV (10251255)	Amargosa River	Lat 36°48'27", long 116°24'01", in SW ¹ / ₄ NW ¹ / ₄ sec.19, T.13 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, 0.8 mi downstream of H-road crossing Fortymile Wash, 11.5 mi north of Amargosa Valley and 24 mi northwest of Mercury. Drainage area is 304 mi ² .	1983-95, 1998	02-23-1998	200

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)
Amargosa River Basin--Continued					
Fortymile Wash near Amargosa Valley, NV (10251258)	Amargosa River	Lat 36°40'18", long 116°26'03", in SW ¹ / ₄ SW ¹ / ₄ sec.02, T.15 S., R.49 E., Nye County, Hydrologic Unit 18090202, 3 mi northwest of U.S. Highway 95 and State Highway 373, and 24 mi west of Mercury. Drainage area is 316 mi ² .	1983-1998	02-23-1998	340
Fortymile Wash near Amargosa Farms, NV (102512585)	Amargosa River	Lat 36°34'06", long 116°31'11", in SW ¹ / ₄ SW ¹ / ₄ sec.05, T.16 S., R.48 E., Nye County, Hydrologic Unit 18090202, along Amargosa Farms Road about 6 mi west of Amargosa Farms Road junction with Nevada State Highway 373, and 29 mi west of Mercury. Drainage area is 325 mi ² .	1998	02-23-1998	90
Amargosa River at Highway 127 near CA-NV State Line (10251259)	Death Valley	Lat 36°23'12", long 116°25'22", in SW ¹ / ₄ SE ¹ / ₄ sec.15, T.26 N., R.05 E., Inyo County, Hydrologic Unit 18090202, 75 ft upstream from Highway 127, 1.6 mi south of California-Nevada State line, 9.5 mi north of Death Valley Junction. Drainage area is 1,542 mi ² .	1993-95, 1998	02-23-1998	30
Amargosa River near Death Valley Junction, CA (102512597)	Death Valley	Lat 36°18'30", long 116°24'06", in NE ¹ / ₄ NE ¹ / ₄ sec.14, T.25 N., R.05 E., Inyo County, Hydrologic Unit 18090202, 0.75 mi west of Death Valley Junction on Belle Vista Road. Drainage area is 1,567 mi ² .	1998	02-23-1998	20
Topopah Wash at Little Skull Mountain, Nevada Test Site, NV (10251260)	Amargosa River	Lat 36°46'06", long 116°19'23", in SE ¹ / ₄ SE ¹ / ₄ sec.35, T.13 S., R.50 E., Nye County, Hydrologic Unit 18090202, Nevada Test Site, at base of Little Skull Mountain, 0.23 mi south of Lathrop Wells Road and 19 mi northwest of Mercury. Drainage area is 104 mi ² .	1984-1995, 1998	02-23-1998	30
Topopah Wash at Highway 95 at Amargosa Valley, NV (10251261)	Amargosa River	Lat 36°38'32", long 116°23'34", in SE ¹ / ₄ SW ¹ / ₄ sec.18, T.15 S., R.50 E., Nye County, Hydrologic Unit 18090202, at culvert on U.S. Highway 95, and 0.5 mi east of Amargosa Valley. Drainage area is 150 mi ² .	1998	02-23-1998	20
Cane Spring Wash near Cane Spring, Nevada Test Site, NV (10251265)	Cane Spring	Lat 36°48'27", long 116°05'41", in NW ¹ / ₄ SW ¹ / ₄ sec.24, T.13 S., R.52 E., Nye County, Hydrologic Unit 16060014, Nevada Test Site, 20 ft upstream from Cane Spring Road, 0.55 mi north of Cane Spring, and 11.5 mi northwest of Mercury. Drainage area is 8.36 mi ² .	1984-95, 1998	02-23-1998	110
Cane Spring Wash Trib below Skull Mountain, Nevada Test Site, NV (102512654)	Cane Spring Wash	Lat 36°48'23", long 116°05'43", in SW ¹ / ₄ SW ¹ / ₄ sec.24, T.13 S., R.52 E., Nye County, Hydrologic Unit 16060014, Nevada Test Site, 200 ft upstream of confluence with Cane Spring Wash, and 11.5 mi northwest of Mercury. Drainage area is 2.29 mi ² .	1992-95, 1998	02-23-1998	^e <5.0

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)
Amargosa River Basin--Continued					
Amargosa River Trib near Mercury, Nevada Test Site, NV (10251270)	Amargosa River	Lat 36°33'40", long 116°06'00", in SE ¹ / ₄ NW ¹ / ₄ sec.14, T.16 S., R.52 E., Nye County, Hydrologic Unit 16060014, Nevada Test Site, upstream side of highway culvert at U.S. Highway 95, and 9 mi southwest of Mercury. Drainage area is 110 mi ² .	1963-81, 1984-95, 1998	02-23-1998	25
Amargosa River near Eagle Mountain below Death Valley Junction, CA (10251280)	Death Valley	Lat 36°11'48", long 116°22'06", in SE ¹ / ₄ SE ¹ / ₄ sec.19, T.24 N., R.06 E., Inyo County, Hydrologic Unit 18090202, on State Highway 373, 6.0 mi north of Death Valley Junction Drainage area is 2,632 mi ² .	1990-95, 1998	02-24-1998	190
Amargosa River at Tecopa, CA (10251300)	Death Valley	Lat 35°30'53", long 116°13'43", in NW ¹ / ₄ SE ¹ / ₄ sec.09, T.20 N., R.07 E., Inyo County, Hydrologic Unit 18090202, 20 ft upstream from Old Spanish Trail Road, and 0.2 mi west of Tecopa. Drainage area is 3090 mi ² approximately, much of which is noncontributing.	1961-83, 1991-94, 1998	02-24-1998	250
Amargosa River at Dumont Dunes near Death Valley, CA (10251375)	Death Valley	Lat 35°41'45", long 116°15'02", in SW ¹ / ₄ NE ¹ / ₄ sec.32, T.19 N., R.07 E., San Bernardino County, Hydrologic Unit 18090203, on road to entrance of Dumont Dunes Recreation Area, 2.95 mi east of State Highway Drainage area is 3,284 mi ² approximately, much of which is noncontributing.	1998	02-24-1998	200

° Estimated

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS

PAHRUMP VALLEY

360836115531701. Local number, 162 S21 E54 10AAC1.

LOCATION.--Lat 36°08'36", long 115°53'17", Hydrologic Unit 16060015, in Clark County.

AQUIFER.--Alluvium of Quaternary age.

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.

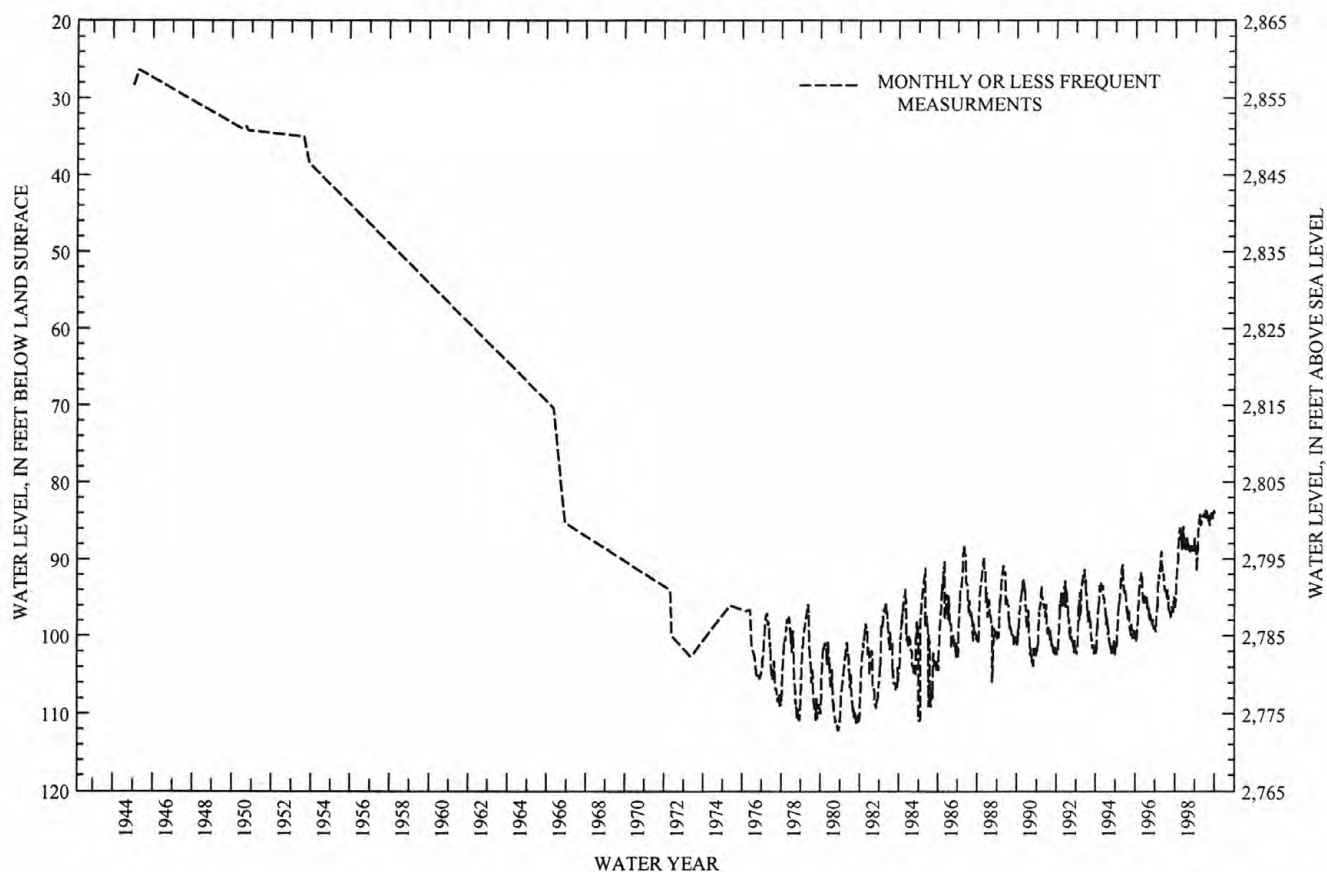
DATUM.--Elevation of land-surface datum is 2,885 ft above sea level, from topographic map. Measuring point: Edge of recorder shelf, 1.2 ft above land-surface datum.

REMARKS.--Measurements supplied by Office of the Nevada State Engineer.

PERIOD OF RECORD.--1944, 1950 through 1970, monthly or intermittent; 1972, 1973, 1975, yearly (unpublished and available in the files of the U.S. Geological Survey); February to August, 1976, monthly; October 1976 to current year, weekly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.29 ft below land-surface datum, January 5, 1945; lowest measured, 112.25 ft below land-surface datum, September 5, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM												WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	88.50	89.19	87.09	84.27	85.20	---	84.26	83.66	84.50	85.59	83.96	83.96
10	87.97	91.57	86.10	84.14	85.03	84.33	84.05	84.12	84.92	84.91	84.20	84.17
15	88.25	90.24	86.19	84.40	84.58	84.15	83.88	83.86	85.14	84.51	84.29	84.12
20	88.63	89.97	85.42	85.68	---	84.26	83.58	84.43	84.16	84.31	84.17	83.68
25	89.28	89.56	84.91	85.50	---	84.44	84.55	84.81	85.13	84.09	84.78	83.70
EOM	89.18	87.86	84.72	85.20	---	83.98	84.67	84.52	85.33	84.30	83.92	84.06
WATER YEAR 1999 HIGHEST 83.58 APR 20 LOWEST 91.57 NOV 10												



DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

[illegible]

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

YUCCA FLAT

370831116080701. Local number, 159 S09 E52; local name, UE-2ce.

LOCATION.--Lat 37°08'31", long 116°08'07", Hydrologic Unit 16060014, in Nye County.

AQUIFER.--Paleozoic carbonate rocks.

WELL CHARACTERISTICS.--Observation well; diameter 8.63 in.; depth 1,650 ft; cased 1,624 ft; open hole with gravel pack 1,624 ft to 1,650 ft; slotted casing 1,384 ft to 1,624 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) September 1991 to December 1998. Atmospheric barometer September 1992 to December 1998.

DATUM.--Elevation of land-surface datum is 4,764.4 ft above sea level from land survey. Measuring point: Top of access tube, 1.5 ft above land-surface datum.

REMARKS. Observation well with two access tubes (2.38 in. and 2.88 in. diameter).

PERIOD OF RECORD.--1977 to 1988, intermittent; May 1989 to August 1991, monthly; September 1991 to December 1998, hourly.

[illegible]

PERIOD OF RECORD.--1951 to current year, intermittent manual measurements; October 1996 to September 1997, transducer measurements at 5-minute intervals; September 1997 to October 1998, transducer measurements at 15-minute intervals.

[illegible]

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
BUCKBOARD MESA

371537116251501. Local number, 227B S08 E50 08; local name ER-20-6-1.

LOCATION.--Lat 37°15'37", long 116°25'15", Hydrologic Unit 18090202, in Nye County.

AQUIFER.--Tertiary volcanic rocks

WELL CHARACTERISTICS.--Observation well, 2.9 in. diameter casing inside a 13.4 in. diameter casing; well depth 2,930 ft; cased 2,841 ft; open interval in bore hole from 2,437 to 2,947 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) and atmospheric barometer April 1999 to present.

DATUM.-- Elevation of land-surface datum is 6474.8 ft above sea level from land survey. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1999, intermittent manual measurements; April to September 1999, hourly transducer measurements.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	2024.33	2024.65	2024.58	2024.62	2024.64	2024.14
2	---	---	---	---	---	---	2024.38	2024.49	2024.40	2024.51	2024.66	2024.15
3	---	---	---	---	---	---	2024.26	2024.36	2024.46	2024.49	2024.65	2024.22
4	---	---	---	---	---	---	2024.36	2024.57	2024.51	2024.61	2024.58	2024.33
5	---	---	---	---	---	---	2024.41	2024.80	2024.68	2024.79	2024.45	2024.37
6	---	---	---	---	---	---	2024.45	2024.84	2024.67	2024.80	2024.41	2024.33
7	---	---	---	---	---	---	2024.52	2024.72	2024.60	2024.78	2024.50	2024.35
8	---	---	---	---	---	---	2024.56	2024.58	2024.58	2024.83	2024.54	2024.37
9	---	---	---	---	---	---	2024.61	2024.60	2024.60	2024.89	2024.46	2024.31
10	---	---	---	---	---	---	2024.66	2024.69	2024.63	2024.92	2024.39	2024.26
11	---	---	---	---	---	---	2024.58	2024.76	2024.71	2024.88	2024.49	2024.29
12	---	---	---	---	---	---	2024.69	2024.66	2024.81	2024.86	2024.58	2024.39
13	---	---	---	---	---	---	2024.85	2024.53	2024.82	2024.77	2024.52	2024.38
14	---	---	---	---	---	---	2024.93	2024.56	2024.79	2024.69	2024.41	2024.29
15	---	---	---	---	---	---	2024.91	2024.60	2024.71	2024.68	2024.49	2024.25
16	---	---	---	---	---	---	2024.92	2024.71	2024.67	2024.70	2024.63	2024.29
17	---	---	---	---	---	---	2024.92	2024.81	2024.74	2024.72	2024.64	2024.32
18	---	---	---	---	---	---	2024.94	2024.70	2024.77	2024.76	2024.52	2024.25
19	---	---	---	---	---	---	2024.87	2024.65	2024.73	2024.76	2024.50	2024.22
20	---	---	---	---	---	---	2024.67	2024.66	2024.66	2024.71	2024.53	2024.35
21	---	---	---	---	---	---	2024.47	2024.66	2024.57	2024.75	2024.51	2024.40
22	---	---	---	---	---	---	2024.36	2024.69	2024.65	2024.84	2024.48	2024.31
23	---	---	---	---	---	---	2024.45	2024.77	2024.71	2024.82	2024.48	2024.24
24	---	---	---	---	---	---	2024.54	2024.80	2024.65	2024.72	2024.47	2024.29
25	---	---	---	---	---	---	2024.66	2024.78	2024.58	2024.73	2024.46	2024.31
26	---	---	---	---	---	---	2024.68	2024.83	2024.56	2024.75	2024.43	2024.23
27	---	---	---	---	---	---	2024.53	2024.84	2024.65	2024.75	2024.42	2024.20
28	---	---	---	---	---	---	2024.30	2024.73	2024.75	2024.77	2024.44	2024.41
29	---	---	---	---	---	---	2024.35	2024.59	2024.77	2024.78	2024.41	2024.41
30	---	---	---	---	---	---	2024.56	2024.67	2024.70	2024.74	2024.28	2024.26
31	---	---	---	---	---	---	---	2024.73	---	2024.69	2024.27	---
MAX	---	---	---	---	---	---	2024.94	2024.84	2024.82	2024.92	2024.66	2024.41
MIN	---	---	---	---	---	---	2024.26	2024.36	2024.40	2024.49	2024.27	2024.14

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
BUCKBOARD MESA

371533116251801. Local number, 227B S08 E50 08; local name ER-20-6-3.

LOCATION.--Lat 37°15'33", long 116°25'18", Hydrologic Unit 18090202, in Nye County.

AQUIFER.--Tertiary volcanic rocks.

WELL CHARACTERISTICS.-- Observation well, 2.9 in. diameter casing inside a 13.4 in. diameter casing; well depth 2,790 ft; cased 2,496 ft; open interval in bore hole from 2,436 to 2,807 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) April 1999 to present.

DATUM.--Elevation of land-surface datum is 6466.0 ft above sea level from land survey. Measuring point: Top of casing, 1.85 ft above land-surface datum.

PERIOD OF RECORD.--April to September 1999, hourly transducer measurements.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	2016.11	2016.07	2016.09	2016.12	2015.65
2	---	---	---	---	---	---	2015.96	2015.94	2015.87	2015.97	2016.17	2015.66
3	---	---	---	---	---	---	2015.83	2015.82	2015.93	2015.96	2016.16	2015.74
4	---	---	---	---	---	---	2015.90	2016.02	2015.98	2016.08	2016.07	2015.85
5	---	---	---	---	---	---	2015.94	2016.25	2016.15	2016.26	2015.94	2015.89
6	---	---	---	---	---	---	2015.97	2016.29	2016.14	2016.27	2015.89	2015.85
7	---	---	---	---	---	---	2016.03	2016.16	2016.07	2016.25	2015.99	2015.88
8	---	---	---	---	---	---	2016.08	2016.03	2016.05	2016.31	2016.03	2015.89
9	---	---	---	---	---	---	2016.11	2016.06	2016.07	2016.37	2015.95	2015.83
10	---	---	---	---	---	---	2016.17	2016.14	2016.10	2016.40	2015.87	2015.79
11	---	---	---	---	---	---	2016.08	2016.20	2016.18	2016.36	2015.98	2015.82
12	---	---	---	---	---	---	2016.19	2016.10	2016.29	2016.35	2016.07	2015.92
13	---	---	---	---	---	---	2016.34	2015.99	2016.31	2016.26	2016.01	2015.91
14	---	---	---	---	---	---	2016.42	2016.03	2016.28	2016.18	2015.89	2015.81
15	---	---	---	---	---	---	2016.41	2016.09	2016.20	2016.17	2015.98	2015.78
16	---	---	---	---	---	---	2016.41	2016.21	2016.16	2016.18	2016.13	2015.82
17	---	---	---	---	---	---	2016.41	2016.29	2016.21	2016.20	2016.15	2015.85
18	---	---	---	---	---	---	2016.42	2016.18	2016.23	2016.24	2016.03	2015.79
19	---	---	---	---	---	---	2016.35	2016.12	2016.19	2016.25	2016.01	2015.76
20	---	---	---	---	---	---	2016.15	2016.14	2016.13	2016.19	2016.04	2015.89
21	---	---	---	---	---	---	2015.94	2016.12	2016.04	2016.23	2016.00	2015.95
22	---	---	---	---	---	---	2015.82	2016.15	2016.12	2016.32	2015.98	2015.88
23	---	---	---	---	---	---	2015.92	2016.23	2016.18	2016.31	2015.98	2015.80
24	---	---	---	---	---	---	2016.01	2016.26	2016.12	2016.19	2015.97	2015.84
25	---	---	---	---	---	---	2016.13	2016.24	2016.05	2016.20	2015.97	2015.86
26	---	---	---	---	---	---	2016.15	2016.30	2016.03	2016.22	2015.94	2015.78
27	---	---	---	---	---	---	2016.00	2016.31	2016.11	2016.22	2015.93	2015.75
28	---	---	---	---	---	---	2015.78	2016.20	2016.21	2016.24	2015.95	2015.93
29	---	---	---	---	---	---	2015.81	2016.06	2016.23	2016.25	2015.92	2015.90
30	---	---	---	---	---	---	2016.02	2016.14	2016.17	2016.21	2015.80	2015.77
31	---	---	---	---	---	---	---	2016.20	---	2016.17	2015.78	---
MAX	---	---	---	---	---	---	---	2016.31	2016.31	2016.40	2016.17	2015.95
MIN	---	---	---	---	---	---	---	2015.82	2015.87	2015.96	2015.78	2015.65

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
BUCKBOARD MESA

371425116251902. Local number, 227B S08 E50 17; local name UE-20n 1.

LOCATION.--Lat 37°14'25", long 116°25'19", Hydrologic Unit 18090202, in Nye County.

AQUIFER.--Tertiary volcanic rocks.

WELL CHARACTERISTICS.-- Observation well, diameter 8.9 in.; depth 2,834 ft; cased 2,282 ft; open from 2,282 to 2,834 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) and atmospheric barometer November 1998 to present.

DATUM.-- Elevation of land-surface datum is 6460.7 ft above sea level from land survey. Measuring point: Top of casing, 1.9 ft above land-surface datum.

PERIOD OF RECORD.--June 1987 to current year, intermittent manual measurements; November 1998 to current year, hourly transducer measurements.

DAY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	2043.22	2043.27	---	2042.89	---	2043.19	2043.34	2043.31	2043.28	2042.81
2	---	---	2043.24	2043.29	---	2042.84	---	2043.02	2043.14	2043.18	2043.37	2042.82
3	---	---	2043.02	2043.36	---	2042.60	---	2042.91	2043.21	2043.17	2043.34	2042.90
4	---	---	2043.01	2043.44	---	2042.60	---	2043.13	2043.25	2043.29	2043.25	2043.01
5	---	2042.79	2043.08	2043.41	---	2042.70	---	2043.38	2043.43	2043.47	2043.11	2043.05
6	---	2042.78	2043.03	2043.29	---	2042.56	2042.81	2043.42	2043.42	2043.47	2043.07	2043.01
7	---	2042.84	2043.41	2043.11	---	2042.50	2042.89	2043.29	2043.34	2043.45	2043.17	2043.04
8	---	2042.75	2043.37	2043.28	---	2042.65	2042.94	2043.15	2043.32	2043.50	2043.20	2043.05
9	---	2042.88	2043.48	2043.40	---	2042.62	2043.01	2043.19	2043.34	2043.57	2043.12	2042.99
10	---	2043.01	2043.62	2043.33	---	---	2043.07	2043.28	2043.38	2043.59	2043.04	2042.94
11	---	2043.00	2043.54	2043.11	---	2042.62	2042.99	2043.36	2043.46	2043.55	2043.15	2042.98
12	---	2043.27	2043.54	2043.07	2043.06	---	2043.12	2043.26	2043.57	2043.53	2043.24	2043.08
13	---	2043.33	2043.40	2043.25	2042.93	---	2043.29	2043.15	2043.58	2043.43	2043.18	2043.07
14	---	2043.21	2043.24	2043.34	2042.71	---	2043.36	2043.20	2043.55	2043.34	2043.06	2042.96
15	---	2043.11	2043.52	2043.13	2042.79	---	2043.36	2043.28	2043.46	2043.33	2043.15	2042.93
16	---	2043.06	2043.58	2042.98	2042.76	---	2043.38	2043.42	2043.42	2043.34	2043.31	2042.97
17	---	2042.94	2043.38	2043.08	2042.74	---	2043.39	2043.50	2043.48	2043.36	2043.32	2043.01
18	---	2043.14	2043.05	2043.08	---	---	2043.41	2043.39	2043.50	2043.39	2043.20	2042.94
19	---	2043.33	2042.79	2043.01	---	---	2043.34	2043.33	2043.45	2043.39	2043.18	2042.91
20	---	2043.34	2042.82	---	---	---	2043.14	2043.36	2043.38	2043.33	2043.22	2043.05
21	---	2043.23	2043.24	---	---	---	2042.93	2043.36	2043.28	2043.37	2043.18	2043.11
22	---	2043.19	2043.09	---	---	---	2042.83	2043.39	2043.37	2043.46	2043.15	2043.02
23	---	2043.17	2043.23	---	2042.97	---	2042.93	2043.49	2043.42	2043.44	2043.15	2042.94
24	---	2043.21	2043.44	---	2042.84	---	2043.04	2043.52	2043.36	2043.32	2043.15	2042.98
25	---	2043.36	2043.46	---	2042.65	---	2043.17	2043.51	2043.28	2043.34	2043.14	2043.00
26	---	2043.25	2043.31	---	2042.79	---	2043.20	2043.57	2043.26	2043.36	2043.10	2042.92
27	---	2043.09	2043.32	---	2042.93	---	2043.05	2043.58	2043.35	2043.35	2043.10	2042.90
28	---	2042.91	2043.38	---	2042.95	---	2042.82	2043.47	2043.46	2043.37	2043.12	2043.12
29	---	2043.07	2043.34	---	---	---	2042.88	2043.33	2043.47	2043.38	2043.09	2043.11
30	---	2043.20	2043.21	---	---	---	2043.11	2043.42	2043.40	2043.32	2042.96	2042.98
31	---	---	2043.05	---	---	---	---	2043.48	---	2043.27	2042.94	---
MAX	---	---	2043.62	---	---	---	---	2043.58	2043.58	2043.59	2043.37	2043.12
MIN	---	---	2042.79	---	---	---	---	2042.91	2043.14	2043.17	2042.94	2042.81

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
OASIS VALLEY

371421116333703. Local number; 228 S08 E48 13; local name, PM-3-1.

LOCATION.--Lat 37°14'21", long 116°33'37". Hydrologic Unit 18090202, in Nye County.

Owner: U.S. Government.

AQUIFER.--Tertiary volcanic rocks.

WELL CHARACTERISTICS.--Observation well; 2.9 in. diameter tube, inside a 10.8 in. diameter casing; depth 2,145 ft; open from 1,872 to 2,192 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) November 1998 to July 1999, atmospheric barometer, November 1998 to July 1999.

DATUM.--Elevation of land-surface datum is 5,822.8 ft above sea level from land survey. Measuring point: Top of casing, 1.7 ft above land-surface datum.

PERIOD OF RECORD.-- April 1992 to current year, quarterly or semi-annual measurements; November 1998 to July 1999, hourly transducer measurements.

DAY	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1458.04	1458.13	1458.13	1458.02	1457.62	1457.87	1457.82	1457.83	---	---
2	---	---	1458.06	1458.14	1458.15	1457.97	1457.68	1457.70	1457.65	1457.72	---	---
3	---	---	1457.86	1458.22	1457.97	1457.75	1457.56	1457.59	1457.72	1457.72	---	---
4	---	1457.68	1457.88	1458.29	1457.78	1457.75	1457.66	1457.79	1457.76	1457.83	---	---
5	---	1457.55	1457.96	1458.25	1457.92	1457.84	1457.70	1457.99	1457.91	1457.99	---	---
6	---	1457.56	1457.91	1458.14	1457.99	1457.71	1457.73	1458.01	1457.89	1457.99	---	---
7	---	1457.62	1458.24	1457.99	1457.92	1457.65	1457.81	1457.88	1457.83	1457.98	---	---
8	---	1457.55	1458.20	1458.16	1457.91	1457.79	1457.84	1457.76	1457.81	1458.04	---	---
9	---	1457.69	1458.31	1458.26	1457.74	1457.75	1457.90	1457.80	1457.83	1458.10	---	---
10	---	1457.80	1458.42	1458.19	1457.98	1457.80	1457.94	1457.87	1457.86	1458.13	---	---
11	---	1457.80	1458.33	1458.00	1458.30	1457.74	1457.85	1457.93	1457.93	1458.08	---	---
12	---	1458.03	1458.30	1457.97	1458.26	1457.98	1457.95	1457.82	1458.02	1458.07	---	---
13	---	1458.09	1458.19	1458.13	1458.13	1457.98	1458.09	1457.72	1458.04	1457.99	---	---
14	---	1457.98	1458.05	1458.22	1457.94	1457.83	1458.16	1457.77	1458.00	1457.91	---	---
15	---	1457.90	1458.31	1458.03	1458.02	1457.69	1458.15	1457.82	1457.93	1457.90	---	---
16	---	1457.86	1458.36	1457.89	1457.99	1457.78	1458.15	1457.94	1457.91	1457.91	---	---
17	---	1457.76	1458.19	1457.98	1457.97	1457.88	1458.15	1458.00	1457.96	1457.93	---	---
18	---	1457.95	1457.89	1457.99	1457.90	1457.97	1458.16	1457.89	1457.98	1457.96	---	---
19	---	1458.12	1457.68	1457.93	1457.98	1457.97	1458.08	1457.84	1457.94	---	---	---
20	---	1458.12	1457.72	1457.81	1458.06	1457.87	1457.90	1457.85	1457.88	---	---	---
21	---	1458.02	1458.11	1457.91	1457.94	1457.93	1457.71	1457.85	1457.79	---	---	---
22	---	1457.99	1457.98	1458.03	1458.17	1457.91	1457.62	1457.87	1457.87	---	---	---
23	---	1457.98	1458.10	1457.84	1458.12	1457.81	1457.71	1457.96	1457.92	---	---	---
24	---	1458.03	1458.27	1457.81	1457.99	1457.88	1457.80	1458.00	1457.86	---	---	---
25	---	1458.14	1458.29	1457.71	1457.83	1457.82	1457.89	1457.97	1457.80	---	---	---
26	---	1458.05	1458.15	1457.76	1457.96	1457.78	1457.90	1458.02	1457.79	---	---	---
27	---	1457.91	1458.16	1458.02	1458.07	1457.87	1457.76	1458.03	1457.87	---	---	---
28	---	1457.76	1458.21	1458.11	1458.08	1458.02	1457.56	1457.93	1457.96	---	---	---
29	---	1457.92	1458.18	1458.11	---	1457.95	1457.61	1457.80	1457.98	---	---	---
30	---	1458.04	1458.06	1458.00	---	1457.67	1457.81	1457.89	1457.91	---	---	---
31	---	---	1457.92	1457.86	---	1457.57	---	1457.95	---	---	---	---
MAX	---	---	1458.42	1458.29	1458.30	1458.02	1458.16	1458.03	1458.04	---	---	---
MIN	---	---	1457.68	1457.71	1457.74	1457.57	1457.56	1457.59	1457.65	---	---	---

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
OASIS VALLEY

370504116404902. Local number, 228 S10 E47 11ADAD; local name, ER-OV-06a.

LOCATION.--Lat 37°05'04", long 116°40'49", Hydrologic Unit 18090202, in Nye County.

AQUIFER.--Tertiary volcanic rocks.

WELL CHARACTERISTICS.--Observation well; diameter 2.5 in.; depth 536 ft; open interval in bore hole from 488 to 536 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) and atmospheric barometer November 1998 to current year.

DATUM.--Elevation of land-surface datum is 4,073.0 ft above sea level from land survey. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1997 to current year, intermittent manual measurements; November 1998 to current year, 15-minute transducer measurements.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	15.28	15.31	15.35	15.23	15.10	15.23	15.15	15.15	15.18	15.09
2	---	---	15.29	15.30	15.34	15.20	15.15	15.11	15.07	15.10	15.26	15.12
3	---	---	15.15	15.35	15.20	15.06	15.07	15.06	15.14	15.13	15.26	15.16
4	---	---	15.20	15.38	15.10	15.11	15.16	15.20	15.17	15.21	15.20	15.22
5	---	---	15.26	15.33	15.24	15.18	15.17	15.30	15.24	15.30	15.14	15.22
6	---	---	15.24	15.26	15.26	15.09	15.19	15.28	15.21	15.28	15.16	15.20
7	---	---	15.44	15.18	15.20	15.09	15.23	15.18	15.17	15.27	15.22	15.21
8	---	---	15.37	15.32	15.19	15.19	15.24	15.11	15.17	15.31	15.23	15.21
9	---	---	15.44	15.36	15.10	15.17	15.29	15.16	15.18	15.34	15.18	15.18
10	---	---	15.46	15.31	15.31	15.19	15.27	15.21	15.20	15.33	15.15	15.17
11	---	---	15.38	15.18	15.47	15.17	15.20	15.23	15.24	15.29	15.21	15.20
12	---	---	15.34	15.19	15.39	15.31	15.26	15.14	15.28	15.29	15.25	15.25
13	---	---	15.26	15.30	15.28	15.27	15.32	15.10	15.27	15.23	15.20	15.23
14	---	---	15.19	15.35	15.15	15.16	15.34	15.16	15.24	15.18	15.15	15.18
15	---	---	15.36	15.22	15.23	15.08	15.32	15.21	15.19	15.18	15.22	15.17
16	---	---	15.39	15.15	15.21	15.16	15.30	15.27	15.18	15.20	15.30	15.19
17	---	---	15.25	15.22	15.20	15.21	15.29	15.28	15.22	15.21	15.28	15.22
18	---	---	15.08	15.23	15.15	15.26	15.28	15.19	15.23	15.24	15.20	15.17
19	---	---	15.01	15.20	15.24	15.25	15.22	15.16	15.20	15.24	15.20	15.16
20	---	---	15.11	15.13	15.28	15.19	15.11	15.18	15.16	15.22	15.23	15.24
21	---	---	15.38	15.22	15.21	15.24	15.02	15.18	15.13	15.24	15.20	15.27
22	---	---	15.29	15.30	15.35	15.20	15.03	15.19	15.19	15.28	15.20	15.22
23	---	---	15.34	15.15	15.29	15.15	15.12	15.26	15.23	15.26	15.20	15.18
24	---	---	15.42	15.16	15.20	15.19	15.19	15.27	15.19	15.20	15.20	15.20
25	---	15.32	15.38	15.11	15.11	15.16	15.22	15.24	15.16	15.21	15.19	15.19
26	---	15.26	15.28	15.19	15.23	15.13	15.20	15.25	15.16	15.21	15.18	15.16
27	---	15.17	15.28	15.34	15.28	15.20	15.12	15.25	15.21	15.20	15.18	15.17
28	---	15.11	15.31	15.37	15.27	15.29	15.03	15.18	15.26	15.22	15.20	15.31
29	---	15.24	15.27	15.34	---	15.22	15.10	15.12	15.25	15.23	15.18	15.28
30	---	15.30	15.20	15.25	---	15.05	15.22	15.19	15.20	15.19	15.13	15.17
31	---	---	15.15	15.17	---	15.05	---	15.22	---	15.17	15.15	---
MAX	---	---	15.46	15.38	15.47	15.31	15.34	15.30	15.28	15.34	15.30	15.31
MIN	---	---	15.01	15.11	15.10	15.05	15.02	15.06	15.07	15.10	15.13	15.09

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
OASIS VALLEY

370301116421101. Local number; 228 S10 E47 22BBD 1; local name, OVU-Dune Well, formerly known as Coffey Dune Well.

LOCATION.--Lat 37°03'01", long 116°42'11". Hydrologic Unit 18090202, at Oasis Valley in Nye County.

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 17.0 ft; cased 16.9 ft; perforated 12.0 to 16.5 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) May 1998 to current year.

DATUM.--Elevation of land-surface datum is 3,883 ft above sea level from topographic map. Measuring point: Hole in casing, 0.5 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- April to May 1998, monthly; May 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.06	6.97	6.88	6.79	6.66	6.57	6.48	6.42	6.67	7.00	7.11	7.18
2	7.05	6.97	6.88	6.79	6.66	6.57	6.47	6.41	6.67	7.01	7.12	7.18
3	7.05	6.97	6.87	6.79	6.65	6.56	6.47	6.41	6.68	7.02	7.12	7.18
4	7.06	6.97	6.87	6.78	6.65	6.56	6.47	6.42	6.68	7.03	7.12	7.18
5	7.06	6.96	6.87	6.78	6.65	6.56	6.47	6.42	6.69	7.04	7.13	7.18
6	7.05	6.96	6.86	6.78	6.64	6.55	6.46	6.43	6.70	7.05	7.13	7.18
7	7.04	6.96	6.87	6.77	6.64	6.55	6.45	6.43	6.72	7.06	7.14	7.19
8	7.04	6.95	6.86	6.77	6.64	6.55	6.46	6.43	6.73	7.06	7.14	7.19
9	7.04	6.95	6.86	6.77	6.63	6.55	6.46	6.43	6.74	7.06	7.14	7.19
10	7.04	6.95	6.86	6.76	6.64	6.54	6.45	6.44	6.76	7.06	7.14	7.19
11	7.04	6.94	6.85	6.75	6.63	6.54	6.45	6.44	6.77	7.06	7.14	7.19
12	7.04	6.95	6.85	6.75	6.63	6.54	6.45	6.44	6.79	7.07	7.14	7.19
13	7.03	6.94	6.84	6.75	6.62	6.53	6.45	6.45	6.80	7.05	7.14	7.19
14	7.03	6.93	6.84	6.74	6.62	6.53	6.45	6.46	6.81	7.05	7.15	7.19
15	7.03	6.93	6.84	6.74	6.62	6.52	6.44	6.47	6.83	7.05	7.15	7.19
16	7.03	6.92	6.84	6.73	6.61	6.52	6.44	6.47	6.85	7.05	7.16	7.19
17	7.03	6.92	6.83	6.73	6.61	6.52	6.44	6.48	6.86	7.06	7.16	7.19
18	7.02	6.93	6.82	6.72	6.60	6.52	6.44	6.49	6.87	7.07	7.16	7.17
19	7.02	6.92	6.82	6.72	6.60	6.52	6.43	6.50	6.88	7.07	7.16	7.16
20	7.02	6.92	6.82	6.71	6.60	6.51	6.43	6.51	6.89	7.07	7.17	7.15
21	7.02	6.91	6.82	6.71	6.60	6.51	6.43	6.53	6.90	7.08	7.17	7.14
22	7.02	6.91	6.81	6.71	6.60	6.51	6.43	6.54	6.91	7.08	7.17	7.14
23	7.01	6.90	6.82	6.70	6.59	6.50	6.43	6.56	6.93	7.08	7.17	7.13
24	7.00	6.91	6.81	6.70	6.59	6.50	6.42	6.57	6.94	7.09	7.18	7.12
25	7.00	6.90	6.81	6.69	6.58	6.50	6.42	6.57	6.95	7.09	7.18	7.12
26	7.00	6.89	6.80	6.69	6.58	6.49	6.42	6.58	6.96	7.09	7.18	7.12
27	6.99	6.89	6.80	6.68	6.58	6.49	6.42	6.60	6.97	7.10	7.18	7.12
28	6.99	6.89	6.80	6.68	6.57	6.49	6.42	6.61	6.98	7.10	7.18	7.12
29	6.98	6.89	6.80	6.67	---	6.49	6.40	6.62	6.99	7.10	7.18	7.12
30	6.98	6.89	6.79	6.67	---	6.48	6.41	6.64	6.99	7.10	7.18	7.11
31	6.99	---	6.79	6.66	---	6.48	---	6.66	---	7.11	7.18	---
MAX	7.06	6.97	6.88	6.79	6.66	6.57	6.48	6.66	6.99	7.11	7.18	7.19
MIN	6.98	6.89	6.79	6.66	6.57	6.48	6.40	6.41	6.67	7.00	7.11	7.11

WTR YR 1999 HIGH 6.40 April 29 LOW 7.19 September 7-17

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

OASIS VALLEY

370249116424101. Local number; 228 S10 E47 22CCD 1; local name, OVU-Middle ET Well.

LOCATION.--Lat 37°02'49", long 116°42'41". Hydrologic Unit 18090202, at Oasis Valley in Nye County.

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 11.2 ft; cased 11.1 ft; perforated 6.3 to 10.7 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) January 1999 to current year.

DATUM.--Elevation of land-surface datum is 3,856 ft above sea level from topographic map. Measuring point: Hole in casing, 0.37 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- January 1999 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 0.08 ft above land-surface datum, April 7, 1999; lowest measured, 4.55 ft below land-surface datum, September 15, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	.92	1.09	1.12	.75	2.46	3.38	3.99	4.44
2	---	---	---	---	.96	1.07	1.10	.96	2.49	3.41	4.02	4.46
3	---	---	---	---	.95	1.04	1.07	1.07	2.52	3.45	4.03	4.47
4	---	---	---	---	.95	1.07	.87	1.26	2.54	3.50	4.05	4.47
5	---	---	---	---	.97	1.08	.87	1.44	2.56	3.54	4.07	4.48
6	---	---	---	---	.95	1.07	.95	1.55	2.57	3.57	4.09	4.48
7	---	---	---	---	.93	1.08	.36	1.62	2.59	3.61	4.12	4.49
8	---	---	---	---	.91	1.10	.73	1.69	2.61	3.64	4.14	4.49
9	---	---	---	---	.87	1.10	.91	1.79	2.64	3.67	4.15	4.50
10	---	---	---	---	.93	1.09	1.01	1.87	2.67	3.69	4.16	4.50
11	---	---	---	---	1.07	1.07	1.08	1.93	2.70	3.70	4.18	4.51
12	---	---	---	---	1.09	1.09	1.09	1.96	2.73	3.72	4.19	4.52
13	---	---	---	---	1.06	1.09	1.01	2.00	2.77	3.71	4.19	4.52
14	---	---	---	1.47	1.03	1.06	1.14	2.06	2.80	3.61	4.20	4.52
15	---	---	---	1.41	1.06	1.04	1.28	2.12	2.83	3.59	4.22	4.52
16	---	---	---	1.36	1.06	.98	1.37	2.16	2.86	3.56	4.24	4.52
17	---	---	---	1.34	1.05	.98	1.43	2.19	2.91	3.56	4.25	4.51
18	---	---	---	1.30	1.04	1.02	1.48	2.21	2.94	3.58	4.26	4.45
19	---	---	---	1.26	1.07	1.05	1.52	2.23	2.97	3.62	4.28	4.42
20	---	---	---	1.22	1.11	1.07	1.54	2.26	3.01	3.66	4.30	4.37
21	---	---	---	1.21	1.09	1.10	1.58	2.29	3.04	3.72	4.31	4.31
22	---	---	---	1.23	1.14	1.08	1.64	2.33	3.08	3.76	4.32	4.25
23	---	---	---	1.20	1.12	1.07	1.66	2.36	3.12	3.79	4.34	4.20
24	---	---	---	1.16	1.09	1.09	1.45	2.39	3.15	3.81	4.35	4.16
25	---	---	---	1.09	1.07	1.10	1.21	2.36	3.18	3.83	4.36	4.11
26	---	---	---	.84	1.11	1.09	1.24	2.35	3.21	3.86	4.38	4.08
27	---	---	---	.57	1.12	1.10	1.31	2.36	3.25	3.88	4.39	4.06
28	---	---	---	.62	1.11	1.12	1.36	2.38	3.29	3.91	4.40	---
29	---	---	---	.74	---	1.10	1.34	2.36	3.32	3.94	4.41	---
30	---	---	---	.79	---	1.05	.64	2.39	3.35	3.95	4.42	---
31	---	---	---	.84	---	1.11	---	2.43	---	3.97	4.44	---
MAX	---	---	---	---	1.14	1.12	1.66	2.43	3.35	3.97	4.44	---
MIN	---	---	---	---	.87	.98	.36	.75	2.46	3.38	3.99	---

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

OASIS VALLEY

370242116422901. Local number; 228 S10 E47 27BAA 1; local name, OVU-Lower ET Well, formerly know as Coffe-Lower ET Well.

LOCATION.--Lat 37°02'42", long 116°42'29". Hydrologic Unit 18090202, at Oasis Valley in Nye County.

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 11.1 ft; cased 10.8 ft; perforated 6.0 to 10.4 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) and atmospheric barometer, September 1998 to current year.

DATUM.--Elevation of land-surface datum is 3,861 ft above sea level from topographic map. Measuring point: Hole in casing, 0.5 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- August 1998, monthly; September 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.76	5.25	4.77	4.40	4.03	3.69	3.46	3.27	3.92	4.75	5.49	5.92
2	5.74	5.24	4.76	4.38	4.01	3.68	3.46	3.24	3.93	4.78	5.52	5.92
3	5.73	5.22	4.74	4.37	3.98	3.67	3.45	3.24	3.95	4.82	5.53	5.93
4	5.72	5.20	4.73	4.36	3.97	3.67	3.46	3.27	3.96	4.85	5.55	5.93
5	5.69	5.18	4.72	4.35	3.96	3.66	3.44	3.29	3.98	4.88	5.57	5.93
6	5.66	5.17	4.70	4.33	3.95	3.64	3.43	3.30	4.00	4.91	5.59	5.94
7	5.65	5.15	4.70	4.32	3.93	3.64	3.42	3.32	4.03	4.95	5.61	5.94
8	5.64	5.14	4.68	4.32	3.92	3.63	3.40	3.34	4.05	4.98	5.63	5.95
9	5.62	5.13	4.67	4.30	3.90	3.62	3.39	3.37	4.08	5.01	5.64	5.95
10	5.61	5.09	4.66	4.29	3.91	3.62	3.38	3.40	4.11	5.03	5.66	5.96
11	5.59	5.08	4.64	4.27	3.90	3.61	3.37	3.42	4.13	5.05	5.67	5.96
12	5.58	5.07	4.63	4.26	3.88	3.61	3.37	3.44	4.16	5.07	5.68	5.96
13	5.56	5.05	4.61	4.26	3.86	3.59	3.36	3.47	4.19	5.10	5.70	5.97
14	5.54	5.03	4.60	4.24	3.84	3.58	3.35	3.50	4.22	5.12	5.71	5.97
15	5.53	5.01	4.60	4.23	3.84	3.57	3.35	3.53	4.25	5.13	5.72	5.97
16	5.52	5.00	4.59	4.21	3.83	3.57	3.35	3.55	4.28	5.15	5.74	5.97
17	5.50	4.98	4.57	4.20	3.82	3.56	3.35	3.57	4.32	5.17	5.75	5.97
18	5.49	4.97	4.55	4.19	3.80	3.56	3.35	3.59	4.35	5.19	5.77	5.95
19	5.47	4.96	4.54	4.18	3.80	3.55	3.35	3.62	4.38	5.21	5.78	5.94
20	5.46	4.94	4.53	4.16	3.79	3.54	3.35	3.65	4.41	5.24	5.79	5.92
21	5.44	4.92	4.53	4.16	3.78	3.53	3.35	3.67	4.44	5.26	5.81	5.91
22	5.42	4.91	4.51	4.15	3.77	3.52	3.36	3.71	4.47	5.28	5.82	5.89
23	5.41	4.89	4.51	4.13	3.76	3.52	3.37	3.74	4.50	5.30	5.83	5.87
24	5.38	4.87	4.50	4.12	3.74	3.51	3.36	3.75	4.53	5.32	5.84	5.85
25	5.37	4.86	4.48	4.11	3.73	3.50	3.34	3.76	4.56	5.35	5.85	5.83
26	5.36	4.84	4.47	4.10	3.73	3.49	3.33	3.78	4.59	5.37	5.86	5.82
27	5.34	4.82	4.45	4.10	3.72	3.49	3.33	3.80	4.62	5.39	5.87	5.80
28	5.32	4.81	4.44	4.08	3.71	3.49	3.33	3.83	4.65	5.41	5.88	5.79
29	5.30	4.80	4.43	4.07	---	3.48	3.34	3.85	4.68	5.44	5.89	5.78
30	5.29	4.79	4.41	4.05	---	3.46	3.30	3.88	4.72	5.45	5.90	5.76
31	5.27	---	4.40	4.03	---	3.46	---	3.90	---	5.47	5.91	---
MAX	5.76	5.25	4.77	4.40	4.03	3.69	3.46	3.90	4.72	5.47	5.91	5.97
MIN	5.27	4.79	4.40	4.03	3.71	3.46	3.30	3.24	3.92	4.75	5.49	5.76

WTR YR 1999 HIGH 3.24 May 2, 3 LOW 5.97 September 13-17

OASIS VALLEY

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 9.3 ft; cased 9.0 ft; perforated 6.5 to 8.8 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) January 1997 to December 1998.

DATUM.--Elevation of land-surface datum is 3,714.2 ft above sea level (levels from U.S. Geological Survey). Measuring point: Hole in casing, 3.02 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study. Water levels above land-surface datum are listed as negative values.

PERIOD OF RECORD.-- June 1996 to August 1996, monthly; August 1996 to September 1996, hourly; October 1996 to November 1996, monthly; January 1997 to December 1998, hourly; January 1999 to current year, monthly.

[illegible]

LOCATION.--Lat 37°01'13", long 116°43'49". Hydrologic Unit 18090202, at Oasis Valley in Nye County.
Owner: U.S. Government.

PERIOD OF RECORD.--August 1996 to January 1997, monthly; December 1998 , hourly; January 1999 to current year, monthly.

[illegible]

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

OASIS VALLEY

370039116432401. Local number, 228 S11 E47 04ACC 1; local name, OVM ET Well, formerly known as MOV ET Well.

LOCATION.--Lat 37°00'39", long 116°43'24". Hydrologic Unit 18090202, at Oasis Valley in Nye County.

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 13.2 ft; cased 13.2 ft; perforated 8.5 to 13.0 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) May 1997 to current year.

DATUM.--Elevation of land-surface datum is 3,690.7 ft above sea level (levels from U.S. Geological Survey). Measuring point: Hole in casing, 0.35 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- May 1997, monthly; May 1997 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 0.16 ft above land-surface datum, February 24, 1998; lowest measured, 4.47 ft below land-surface datum, September 16 and September 17, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.71	---	2.96	2.23	.61	.71	.86	.41	2.52	3.37	3.93	4.33
2	3.71	---	2.93	2.22	.66	.72	.79	.56	2.55	3.40	3.95	4.33
3	3.71	---	2.89	2.21	.65	.72	.80	.71	2.57	3.43	3.97	4.34
4	3.71	---	2.85	2.20	.63	.70	.71	.91	2.60	3.46	3.99	4.34
5	3.72	---	2.82	2.18	.62	.70	.67	1.10	2.62	3.49	4.00	4.35
6	3.73	---	2.79	2.17	.61	.70	.69	1.26	2.64	3.51	4.02	4.36
7	3.73	---	2.77	2.15	.60	.71	.42	1.37	2.67	3.54	4.03	4.36
8	3.73	---	2.74	2.14	.58	.73	.36	1.47	2.69	3.57	4.05	4.37
9	3.73	---	2.71	2.13	.57	.72	.50	1.57	2.72	3.59	4.06	4.38
10	3.74	---	2.69	2.11	.62	.72	.63	1.65	2.74	3.61	4.06	4.39
11	3.74	---	2.66	2.09	.77	.69	.70	1.72	2.77	3.63	4.07	4.40
12	3.74	---	2.64	2.08	.79	.71	.71	1.77	2.79	3.65	4.09	4.40
13	3.74	---	2.61	2.07	.75	.74	.62	1.83	2.82	3.63	4.10	4.41
14	3.74	---	2.58	2.07	.68	.77	.71	1.89	2.85	3.51	4.11	4.42
15	3.74	---	2.55	2.05	.68	.79	.83	1.95	2.88	3.58	4.13	4.42
16	3.74	---	2.53	2.04	.70	.74	.95	2.00	2.91	3.63	4.14	4.43
17	3.73	---	2.51	2.02	.70	.71	1.08	2.05	2.94	3.66	4.16	4.43
18	3.73	---	2.48	2.00	.72	.76	1.19	2.09	2.97	3.69	4.17	4.32
19	3.72	---	2.46	1.94	.76	.86	1.28	2.13	3.00	3.71	4.18	4.10
20	3.72	---	2.44	1.75	.80	.88	1.34	2.17	3.03	3.73	4.19	3.97
21	3.72	---	2.43	1.59	.76	.87	1.36	2.20	3.06	3.74	4.21	3.91
22	3.71	---	2.42	1.52	.76	.85	1.38	2.24	3.09	3.76	4.22	3.89
23	3.71	---	2.41	1.43	.72	.87	1.39	2.28	3.12	3.78	4.23	3.88
24	3.70	---	2.39	1.34	.68	.90	1.22	2.31	3.15	3.80	4.24	3.87
25	3.69	---	2.38	1.26	.66	.89	1.05	2.33	3.18	3.82	4.26	3.88
26	---	---	2.36	1.10	.67	.87	1.00	2.36	3.21	3.84	4.27	3.89
27	---	---	2.34	.93	.69	.87	1.00	2.38	3.24	3.85	4.28	3.90
28	---	---	2.32	.78	.71	.92	1.03	2.41	3.27	3.87	4.29	3.92
29	3.66	3.01	2.30	.61	---	.99	.90	2.43	3.30	3.89	4.30	3.93
30	---	2.98	2.28	.56	---	.98	.47	2.46	3.33	3.90	4.31	3.94
31	---	---	2.25	.56	---	.94	---	2.49	---	3.92	4.32	---
MAX	---	---	2.96	2.23	.80	.99	1.39	2.49	3.33	3.92	4.32	4.43
MIN	---	---	2.25	.56	.57	.69	.36	.41	2.52	3.37	3.93	3.87

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
OASIS VALLEY

365948116360402. Local number, 228 S11 E48 10CABB2; local name, ER-OV-03c2.

LOCATION.--Lat 36°59'48", long 116°36'04". Hydrologic Unit 18090202, at Oasis Valley in Nye County.

Owner: U.S. Government.

AQUIFER.--Tertiary volcanic rocks.

WELL CHARACTERISTICS.--Observation well; diameter 2.5 in.; well depth 321 ft; open interval in bore hole from 270 to 321 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) and atmospheric barometer, March 1999 to current year; .

DATUM.--Elevation of land-surface datum is 4191.9 ft above sea level from survey. Measuring point: top of casing, 3.1 ft above land-surface datum.

PERIOD OF RECORD.-- October 1997 to March 1999, intermittent manual measurements; April to September 1999, 15-minute transducer measurements.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) , WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	214.46	214.58	214.48	214.46	214.54	214.40
2	---	---	---	---	---	---	214.51	214.44	214.42	214.42	214.62	214.43
3	---	---	---	---	---	---	214.40	214.41	214.50	214.45	214.58	214.48
4	---	---	---	---	---	---	214.52	214.56	214.52	214.55	214.53	214.54
5	---	---	---	---	---	---	214.51	214.66	214.59	214.62	214.46	214.53
6	---	---	---	---	---	---	214.54	214.62	214.54	214.59	214.49	214.50
7	---	---	---	---	---	---	214.59	214.52	214.51	214.59	214.56	214.51
8	---	---	---	---	---	---	214.58	214.46	214.50	214.63	214.56	214.51
9	---	---	---	---	---	---	214.65	214.52	214.51	214.66	214.49	214.48
10	---	---	---	---	---	---	214.62	214.56	214.54	214.64	214.47	214.46
11	---	---	---	---	---	---	214.55	214.59	214.58	214.60	214.56	214.50
12	---	---	---	---	---	---	214.61	214.48	214.62	214.60	214.58	214.55
13	---	---	---	---	---	---	214.67	214.45	214.60	214.54	214.52	214.53
14	---	---	---	---	---	---	214.68	214.51	214.56	214.51	214.46	214.47
15	---	---	---	---	---	---	214.66	214.56	214.52	214.51	214.55	214.46
16	---	---	---	---	---	---	214.64	214.62	214.52	214.53	214.62	214.49
17	---	---	---	---	---	---	214.64	214.62	214.56	214.54	214.59	214.52
18	---	---	---	---	---	---	214.62	214.52	214.56	214.57	214.51	214.49
19	---	---	---	---	---	---	214.56	214.51	214.53	214.56	214.52	214.47
20	---	---	---	---	---	---	214.45	214.52	214.49	214.54	214.55	214.57
21	---	---	---	---	---	---	214.37	214.51	214.45	214.57	214.51	214.57
22	---	---	---	---	---	---	214.39	214.52	214.53	214.61	214.51	214.52
23	---	---	---	---	---	---	214.48	214.60	214.55	214.58	214.51	214.48
24	---	---	---	---	---	---	214.53	214.61	214.50	214.52	214.51	214.51
25	---	---	---	---	---	---	214.57	214.57	214.47	214.54	214.50	214.51
26	---	---	---	---	---	---	214.54	214.60	214.48	214.55	214.49	214.46
27	---	---	---	---	---	---	214.46	214.59	214.54	214.54	214.50	214.48
28	---	---	---	---	---	---	214.37	214.51	214.58	214.56	214.52	214.62
29	---	---	---	---	---	---	214.46	214.46	214.57	214.58	214.49	214.56
30	---	---	---	---	---	214.38	214.58	214.54	214.51	214.53	214.44	214.47
31	---	---	---	---	---	214.40	---	214.57	---	214.51	214.47	---
MAX	---	---	---	---	---	---	214.68	214.66	214.62	214.66	214.62	214.62
MIN	---	---	---	---	---	---	214.37	214.41	214.42	214.42	214.44	214.40

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

AMARGOSA DESERT

362859116201901. Local number, 230 S17 E50 10CC 1; local name, F-Meadows Well.

LOCATION.--Lat 36°28'59", long 116°20'19". Hydrologic Unit 18090202, at Ash Meadows National Wildlife Refuge in Nye County.

Owner: U.S. Government.

AQUIFER.--Unconsolidated deposits of Quaternary age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 7.5 ft; cased 6.8 ft; perforated 3.4 ft to 6.6 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) October 1997 to present year.

DATUM.--Elevation of land-surface datum is 2,249 ft above sea level from topographic map. Measuring point: Hole in casing, 1.0 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study. Water levels above land-surface datum are listed as negative values.

PERIOD OF RECORD.-- April to October 1997, monthly; October 1997 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.81	1.12	.35	.18	.14	.11	---	-.17	1.44	2.01	1.87	1.82
2	1.78	1.10	.34	.18	.13	.10	---	-.12	1.38	2.08	1.91	1.87
3	1.78	1.09	.33	.18	.12	.10	---	-.05	1.35	2.15	1.86	1.86
4	1.77	1.08	.32	.19	.09	.12	---	.02	1.31	2.20	1.89	1.85
5	1.78	1.05	.33	.18	.06	.12	---	.08	1.31	2.23	1.93	1.86
6	1.78	1.04	.31	.17	.05	.12	---	.13	1.38	2.19	2.00	1.86
7	1.75	1.02	.32	.17	.04	.12	---	.20	1.43	2.17	2.02	1.88
8	1.73	.99	.30	.17	.04	.12	---	.33	1.47	2.11	2.02	1.89
9	1.70	.99	.29	.18	.04	.13	---	.42	1.47	1.50	2.01	1.90
10	1.66	.98	.29	.17	.05	.13	---	.46	1.49	.51	2.02	1.92
11	1.63	.95	.28	.17	.07	.12	---	.50	1.51	.68	2.05	1.95
12	1.59	.93	.26	.16	.07	.10	---	.55	1.54	.95	2.04	1.94
13	1.56	.92	.25	.17	.05	.10	---	.67	1.57	1.09	2.04	1.94
14	1.54	.89	.23	.17	.04	.10	---	.77	1.61	1.17	2.09	1.92
15	1.50	.86	.24	.16	.04	.10	---	.84	1.69	.93	2.20	1.93
16	1.48	.83	.25	.16	.04	.10	---	.86	1.76	.57	2.24	1.93
17	1.46	.79	.24	.16	.04	.09	---	.91	1.82	.77	2.23	1.89
18	1.43	.75	.23	.16	.04	---	---	.94	1.83	1.07	2.22	1.61
19	1.42	.71	.22	.15	.04	---	---	1.00	1.85	1.26	2.24	.68
20	1.41	.65	.23	.15	.05	---	---	1.04	1.86	1.38	2.25	.36
21	1.40	.60	.25	.16	.05	---	---	1.10	1.86	1.48	2.24	.41
22	1.38	.55	.24	.17	.06	---	---	1.14	1.85	1.54	2.26	.46
23	1.36	.52	.23	.16	.07	.07	---	1.20	1.86	1.59	2.28	.51
24	1.32	.49	.24	.16	.07	.07	-.03	1.15	1.89	1.66	2.30	.65
25	1.28	.48	.22	.13	.08	.06	-.05	1.15	1.93	1.74	2.29	.83
26	1.24	.45	.19	.11	.11	.06	.00	1.23	1.95	1.76	2.27	.92
27	1.18	.43	.18	.13	.12	.06	.05	1.28	1.96	1.78	2.26	1.02
28	1.16	.40	.17	.14	.12	.07	.09	1.32	1.96	1.81	2.23	1.15
29	1.14	.39	.17	.15	---	.08	.04	1.36	1.98	1.81	1.59	1.20
30	1.12	.37	.17	.14	---	.11	-.06	1.43	1.99	1.74	1.55	1.20
31	1.13	---	.17	.13	---	.16	---	1.44	---	1.80	1.75	---
MAX	1.81	1.12	.35	.19	.14	---	---	1.44	1.99	2.23	2.30	1.95
MIN	1.12	.37	.17	.11	.04	---	---	-.17	1.31	.51	1.55	.36

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
DEATH VALLEY

361252116462901. Local number, 243 024N002E04 01S; local name, S-Badwater Deep Well.

LOCATION.--Lat 36°12'52", long 116°46'29". Hydrologic Unit 18090203, at Death Valley in Inyo County, California.

Owner: U.S. Government.

AQUIFER.--Playa deposits of Holocene age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 10.8 ft; cased 10.7 ft; perforated 8.2 to 10.7 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) February 1998 to current year.

DATUM.--Elevation of land-surface datum is 275 ft below sea level from topographic map. Measuring point: Hole in casing, 0.7 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study. Well pumped on January 13, 1999 to collect water quality sample. Water level declined 2.2 feet due to pumping and recovered to a static water level in approximately 120 days.

PERIOD OF RECORD.-- August 1997 to February 1998, monthly; February 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.83	2.02	2.21	2.39	3.99	3.19	2.69	2.38	2.10	1.94	1.95	2.01
2	1.78	2.06	2.21	2.38	3.94	3.14	2.69	2.27	2.11	1.93	1.97	2.05
3	1.84	2.07	2.14	2.41	3.85	3.06	2.61	2.28	2.16	1.99	1.95	2.06
4	1.88	2.06	2.22	2.42	3.84	3.11	2.68	2.37	2.17	2.04	1.93	2.08
5	1.89	2.04	2.22	2.40	3.87	3.10	2.64	2.37	2.15	2.05	1.93	2.08
6	1.86	2.09	2.22	2.37	3.82	3.02	2.67	2.32	2.09	2.03	1.96	2.07
7	1.86	2.08	2.29	2.37	3.77	3.06	2.68	2.26	2.09	2.04	1.98	2.09
8	1.89	2.06	2.24	2.43	3.73	3.02	2.64	2.25	2.11	2.06	1.97	2.09
9	1.86	2.13	2.30	2.42	3.67	3.02	2.69	2.30	2.11	2.07	1.95	2.09
10	1.91	2.12	2.31	2.40	3.73	2.98	2.63	2.29	2.12	2.05	1.97	2.09
11	1.93	2.13	2.28	2.36	3.70	2.98	2.62	2.28	2.12	2.04	2.00	2.11
12	1.93	2.16	2.29	2.41	3.64	2.99	2.66	2.19	2.12	2.05	2.00	2.12
13	1.88	2.15	2.25	3.89	3.59	2.94	2.63	2.18	2.09	2.04	1.96	2.10
14	1.86	2.10	2.25	4.95	3.54	2.87	2.62	2.22	2.05	2.02	1.96	2.10
15	1.92	2.12	2.31	4.90	3.58	2.87	2.62	2.27	2.03	1.95	2.01	2.11
16	1.99	2.11	2.30	4.86	3.54	2.90	2.61	2.28	2.06	1.92	2.02	2.12
17	1.98	2.11	2.23	4.93	3.51	2.88	2.59	2.24	2.07	1.92	2.01	2.13
18	1.94	2.17	2.21	4.82	3.45	2.87	2.57	2.17	2.07	1.93	1.98	2.11
19	1.96	2.19	2.21	4.74	3.49	2.84	2.53	2.19	2.04	1.92	2.00	2.10
20	1.99	2.18	2.30	4.63	3.45	2.83	2.47	2.20	2.01	1.92	2.01	2.13
21	2.01	2.14	2.34	4.59	3.40	2.83	2.45	2.19	2.00	1.93	1.99	2.12
22	2.02	2.17	2.29	4.53	3.40	2.76	2.51	2.20	2.06	1.94	2.00	2.13
23	2.00	2.16	2.36	4.41	3.33	2.78	2.55	2.23	2.05	1.93	2.00	2.11
24	1.93	2.19	2.38	4.39	3.27	2.76	2.55	2.22	2.01	1.91	2.01	2.13
25	2.01	2.20	2.35	4.33	3.24	2.76	2.52	2.17	1.98	1.93	2.00	2.11
26	2.02	2.16	2.32	4.29	3.30	2.70	2.47	2.19	2.00	1.93	2.00	2.10
27	2.04	2.14	2.37	4.24	3.28	2.75	2.43	2.17	2.05	1.93	2.00	2.12
28	2.02	2.16	2.38	4.19	3.22	2.76	2.43	2.11	2.05	1.94	2.01	2.17
29	1.97	2.22	2.35	4.14	---	2.67	2.50	2.10	2.02	1.96	2.01	2.15
30	2.05	2.21	2.34	4.07	---	2.61	2.48	2.16	1.98	1.92	2.00	2.13
31	2.06	---	2.33	4.00	---	2.67	---	2.16	---	1.93	2.01	---
MAX	2.06	2.22	2.38	4.95	3.99	3.19	2.69	2.38	2.17	2.07	2.02	2.17
MIN	1.78	2.02	2.14	2.36	3.22	2.61	2.43	2.10	1.98	1.91	1.93	2.01

WTR YR 1999 HIGH 1.71 OCT 2 LOW 5.00 JAN 14

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
DEATH VALLEY

361252116462902. Local number 243 024N002E04 02S; local name, S-Badwater Shallow Well.

LOCATION.--Lat 36°12'52", long 116°46'29". Hydrologic Unit 18090203, at Death Valley in Inyo County, California.

Owner: U.S. Government.

AQUIFER.--Playa deposits of Holocene age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 5.6 ft; cased 5.6 ft; perforated 3.3 to 5.5 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) December 1997 to current year.

DATUM.--Elevation of land-surface datum is 275 ft below sea level from topographic map. Measuring point: Hole in casing, 0.87 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- August to December 1997, monthly; December 1997 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.54	1.83	2.02	2.17	2.18	2.05	1.98	1.57	1.59	1.51	1.51	1.69
2	1.49	1.86	2.02	2.16	2.16	2.03	2.00	1.48	1.61	1.49	1.56	1.76
3	1.52	1.89	1.95	2.20	2.10	1.95	1.94	1.51	1.70	1.53	1.55	1.78
4	1.61	1.89	2.01	2.22	2.07	2.00	2.00	1.61	1.69	1.60	1.52	1.80
5	1.66	1.85	2.05	2.20	2.14	2.03	1.96	1.65	1.67	1.65	1.50	1.80
6	1.63	1.89	2.06	2.17	2.13	1.97	1.99	1.61	1.61	1.63	1.55	1.78
7	1.62	1.91	2.15	2.14	2.10	2.00	2.04	1.54	1.60	1.63	1.61	1.80
8	1.63	1.86	2.12	2.21	2.07	2.01	2.03	1.52	1.61	1.70	1.62	1.80
9	1.62	1.96	2.16	2.21	2.02	2.01	2.08	1.57	1.60	1.74	1.59	1.78
10	1.64	1.97	2.17	2.18	2.18	2.03	2.06	1.60	1.62	1.73	1.60	1.77
11	1.68	1.96	2.15	2.13	2.22	2.02	2.03	1.60	1.61	1.69	1.66	1.82
12	1.70	2.02	2.15	2.14	2.18	2.07	2.06	1.52	1.62	1.71	1.66	1.85
13	1.65	2.01	2.11	2.19	2.15	2.05	2.04	1.52	1.59	1.70	1.62	1.82
14	1.61	1.97	2.08	2.21	2.10	1.99	2.01	1.57	1.56	1.69	1.60	1.80
15	1.64	1.95	2.12	2.15	2.14	1.98	2.01	1.64	1.53	1.40	1.67	1.80
16	1.76	1.94	2.10	2.12	2.11	2.03	2.00	1.67	1.54	1.33	1.71	1.82
17	1.79	1.91	2.03	2.16	2.09	2.05	1.99	1.66	1.57	1.33	1.69	1.85
18	1.75	2.00	1.98	2.14	2.06	2.05	1.97	1.58	1.57	1.36	1.63	1.78
19	1.74	2.05	1.95	2.12	2.11	2.03	1.92	1.59	1.55	1.38	1.64	1.72
20	1.75	2.04	2.04	2.08	2.13	2.00	1.87	1.58	1.53	1.39	1.66	1.78
21	1.76	2.01	2.17	2.12	2.08	2.04	1.83	1.58	1.51	1.43	1.64	1.79
22	1.82	2.01	2.13	2.15	2.16	2.00	1.87	1.58	1.57	1.46	1.64	1.79
23	1.81	2.00	2.19	2.08	2.12	1.99	1.93	1.64	1.57	1.45	1.64	1.80
24	1.73	2.00	2.23	2.06	2.07	1.98	1.96	1.65	1.54	1.43	1.65	1.81
25	1.77	2.04	2.21	2.05	2.02	1.97	1.95	1.63	1.54	1.47	1.65	1.79
26	1.80	2.00	2.16	2.07	2.09	1.93	1.89	1.62	1.56	1.47	1.64	1.77
27	1.84	1.97	2.19	2.15	2.10	1.98	---	1.61	1.60	1.47	1.65	1.79
28	1.83	1.94	2.20	2.16	2.08	2.01	1.84	1.55	1.60	1.48	1.66	1.91
29	1.76	2.04	2.17	2.15	---	1.95	1.91	1.55	1.58	1.53	1.66	1.90
30	1.82	2.04	2.14	2.12	---	1.87	1.83	1.62	1.55	1.51	1.64	1.86
31	1.87	---	2.11	2.09	---	1.93	---	1.64	---	1.49	1.71	---
MAX	1.87	2.05	2.23	2.22	2.22	2.07	---	1.67	1.70	1.74	1.71	1.91
MIN	1.49	1.83	1.95	2.05	2.02	1.87	---	1.48	1.51	1.33	1.50	1.69

WATER YEAR 1999 HIGH 1.25 JUL 16 LOW 2.29 FEB 11

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
DEATH VALLEY

361712116531201. Local number 243 025N001E08 01S; local name, Pickleweed ET Well.

LOCATION.--Lat 36°17'12", long 116°53'12". Hydrologic Unit 18090203, at Death Valley in Inyo County, California.

Owner: U.S. Government.

AQUIFER.--Playa deposits of Holocene age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 14.0 ft; cased 13.5 ft; perforated 8.7 to 13.1 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) April 1998 to current year.

DATUM.--Elevation of land-surface datum is 265 ft below sea level from topographic map. Measuring point: Hole in casing, 0.2 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.--April 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

	DAILY MEAN VALUES											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.36	5.37	5.15	4.98	4.76	4.58	4.45	4.36	4.52	4.84	---	---
2	5.35	5.37	5.13	4.97	4.74	4.58	4.45	4.34	4.53	4.86	---	---
3	5.36	5.36	5.12	4.97	4.73	4.56	4.44	4.33	4.55	4.88	---	5.28
4	5.38	5.35	5.12	4.95	4.72	4.57	4.45	4.34	4.55	4.90	---	5.28
5	5.38	5.34	5.11	4.95	4.73	4.56	4.44	4.34	4.56	4.91	---	5.29
6	5.37	5.35	5.10	4.93	4.72	4.55	4.44	4.33	4.56	4.92	---	5.30
7	5.37	5.34	5.10	4.92	4.71	4.55	4.44	4.32	4.57	4.93	---	5.30
8	5.38	5.32	5.09	4.93	4.70	4.55	4.43	4.32	4.58	4.95	---	5.31
9	5.38	5.33	5.09	4.92	4.69	4.54	4.43	4.34	4.59	4.96	---	5.31
10	5.39	5.32	5.08	4.91	4.70	4.54	4.42	4.34	4.60	4.93	---	5.32
11	5.39	5.31	5.07	4.89	4.69	4.53	4.41	4.35	4.61	4.86	---	5.33
12	5.39	5.31	5.06	4.89	4.68	4.53	4.42	4.35	4.62	4.83	---	5.33
13	5.39	5.30	5.05	---	4.67	4.52	4.41	4.36	4.62	4.81	---	5.34
14	5.39	5.28	5.04	4.88	4.66	4.51	4.41	4.37	4.63	4.80	---	5.34
15	5.39	5.27	5.04	4.86	4.66	4.51	4.40	4.39	4.64	4.79	---	5.35
16	5.41	5.27	5.03	4.85	4.66	4.52	4.40	4.40	4.66	4.76	---	5.36
17	5.40	5.26	5.02	4.85	4.65	4.51	4.39	4.40	4.67	4.75	---	5.36
18	5.40	5.26	5.00	4.84	4.64	4.51	4.39	4.40	4.69	4.75	---	5.36
19	5.40	5.26	4.99	4.84	4.64	4.50	4.39	4.41	4.70	4.77	---	5.37
20	5.40	5.24	5.00	4.82	4.64	4.50	4.38	4.43	4.71	4.78	---	5.37
21	5.41	5.23	4.99	4.83	4.63	4.49	4.38	4.44	4.72	4.80	---	5.38
22	5.41	5.22	4.98	4.82	4.63	4.48	4.39	4.45	4.74	---	---	5.38
23	5.41	5.22	4.98	4.80	4.61	4.48	4.39	4.47	4.75	---	---	5.38
24	5.40	5.22	4.98	4.80	4.60	4.48	4.39	4.47	4.76	---	---	5.39
25	5.40	5.20	4.96	4.79	4.60	4.47	4.38	4.48	4.77	---	---	5.39
26	5.40	5.19	4.95	4.79	4.61	4.47	4.37	4.49	4.79	---	---	5.39
27	5.41	5.18	4.95	4.79	4.60	4.47	4.37	4.50	4.80	---	---	5.40
28	5.40	5.17	4.95	4.78	4.59	4.47	4.37	4.49	4.81	---	---	5.40
29	5.38	5.18	4.93	4.77	---	4.45	4.39	4.50	4.82	---	---	5.41
30	5.39	5.16	4.92	4.76	---	4.45	4.38	4.51	4.83	---	---	5.41
31	5.38	---	4.91	4.75	---	4.45	---	4.52	---	---	---	---
MAX	5.41	5.37	5.15	---	4.76	4.58	4.45	4.52	4.83	---	---	---
MIN	5.35	5.16	4.91	---	4.59	4.45	4.37	4.32	4.52	---	---	---

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

DEATH VALLEY

361340116470701. Local number 243 025N002E32 01S; local name, S-Playa Deep Well.

LOCATION.--Lat 36°13'40", long 116°47'07". Hydrologic Unit 18090203, at Death Valley in Inyo County, California.

Owner: U.S. Government.

AQUIFER.--Playa deposits of Holocene age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 13.8 ft; cased 13.4 ft; perforated 11.7 to 13.3 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) August 1998 to current year.

DATUM.--Elevation of land-surface datum is 280 ft below sea level from topographic map. Measuring point: Hole in casing, 1.1 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study. Water levels above land-surface datum are listed as negative values.

PERIOD OF RECORD.-- August 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.51	.90	1.19	1.34	1.08	.82	.79	.18	-.14	-.07	-.12
2	-.03	.53	.93	1.21	1.31	1.03	.82	.55	.14	-.19	.04	-.06
3	.00	.60	.77	1.32	1.18	.81	.69	.49	.23	-.14	.00	-.03
4	.22	.59	.88	1.42	1.11	.91	.81	.66	.23	-.03	-.08	.03
5	.36	.49	1.00	1.36	1.22	1.04	.80	.76	.27	.06	-.14	.03
6	.28	.56	.97	1.25	1.22	.89	.84	.68	.17	.01	-.08	-.01
7	.22	.61	1.29	1.13	1.16	.90	.94	.52	.14	.02	.00	.03
8	.20	.50	1.19	1.31	1.12	1.01	.97	.44	.15	.13	-.01	.04
9	.16	.72	1.26	1.39	1.03	.97	1.04	.51	.16	.18	-.10	.01
10	.17	.79	1.33	1.31	1.27	1.02	1.00	.56	.18	.17	-.10	.01
11	.26	.75	1.25	1.15	1.39	.96	.88	.54	.20	.08	.02	.09
12	.30	.88	1.19	1.15	1.29	1.13	.98	.37	.24	.09	.04	.15
13	.19	.88	1.07	1.30	1.19	1.06	1.00	.30	.21	.04	-.05	.13
14	.09	.76	.93	1.35	1.07	.89	.97	.42	.15	.02	-.11	.07
15	.12	.69	1.08	1.26	1.12	.83	1.00	.50	.09	-.01	.01	.07
16	.40	.65	1.11	1.20	1.09	.97	1.00	.55	.10	-.02	.12	.09
17	.51	.56	.98	1.27	1.07	.99	.96	.51	.14	.00	.07	.14
18	.40	.79	.81	1.25	1.02	1.01	.92	.34	.13	.03	-.04	.17
19	.37	.94	.69	1.23	1.08	.99	.83	.32	.08	.04	-.03	.11
20	.38	.94	.90	1.17	1.13	.95	.68	.32	.00	.00	.02	.23
21	.42	.85	1.34	1.25	1.05	1.04	.55	.30	-.06	.02	-.02	.23
22	.56	.80	1.17	1.34	1.20	.94	.63	.29	.04	.06	-.04	.22
23	.56	.78	1.24	1.21	1.12	.87	.75	.41	.05	.02	-.04	.19
24	.38	.80	1.38	1.18	1.03	.91	.82	.41	-.01	-.06	-.04	.18
25	.40	.94	1.32	1.18	---	.87	.82	.34	-.05	-.04	-.05	.16
26	.42	.85	1.16	1.24	1.18	.79	.70	.32	-.04	-.05	-.08	.08
27	.48	.74	1.18	1.37	1.22	.88	.61	.32	.03	-.06	-.06	.10
28	.49	.66	1.21	1.38	1.18	1.01	.54	.20	.04	-.04	-.03	.38
29	.33	.89	1.14	1.36	---	.89	.70	.16	.02	.03	-.06	.35
30	.46	.94	1.04	1.28	---	.66	.84	.27	-.06	-.06	-.10	.21
31	.60	---	.96	1.20	---	.72	---	.29	---	-.10	-.03	---
MAX	.60	.94	1.38	1.42	---	1.13	1.04	.79	.27	.18	.12	.38
MIN	-.03	.49	.69	1.13	---	.66	.54	.16	-.06	-.19	-.14	-.12

GROUND-WATER LEVELS
NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued
DEATH VALLEY

361340116470601. Local number 243 025N002E32 03S; local name, S-Playa Shallow Well.

LOCATION.--Lat 36°13'40", long 116°47'06". Hydrologic Unit 18090203, at Death Valley in Inyo County, California.

Owner: U.S. Government.

AQUIFER.--Playa deposits of Holocene age.

WELL CHARACTERISTICS.--Unused observation well; diameter 2.0 in.; depth 3.9 ft; cased 3.9 ft; perforated 2.7 to 3.7 ft.

INSTRUMENTATION.--Water-level recorder (pressure sensor) August 1998 to current year.

DATUM.--Elevation of land-surface datum is 280 ft below sea level from topographic map. Measuring point: Hole in casing, 1.34 ft above land-surface datum.

REMARKS.--Well installed as part of evapotranspiration study.

PERIOD OF RECORD.-- August 1998 to current year, hourly.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.33	.56	.84	.98	.72	.63	---	.31	.27	.30	.34
2	.13	.37	.57	.82	.95	.70	.66	---	.32	.27	.33	.38
3	.15	.41	.47	.87	.82	.56	.59	---	.37	.30	.31	.40
4	.24	.41	.54	.90	.76	.62	.69	---	.36	.33	.29	.42
5	.28	.35	.61	.86	.91	.71	.68	---	.38	.35	.28	.42
6	.22	.41	.61	.81	.90	.62	.69	---	.33	.32	.32	.40
7	.20	.44	.78	.76	.84	.64	.75	---	.33	.32	.35	.41
8	.21	.36	.72	.87	.79	.73	.76	---	.34	.36	.34	.41
9	.19	.50	.76	.89	.70	.69	.81	---	.34	.37	.31	.40
10	.22	.51	.79	.82	.95	.73	.78	---	.35	.36	.33	.39
11	.26	.49	.74	.74	1.06	.69	.70	.36	.34	.32	.37	.43
12	.27	.56	.71	.74	.95	.79	.77	.31	.35	.34	.36	.45
13	.20	.55	.66	---	.87	.75	.77	.30	.33	.33	.32	.43
14	.17	.48	.60	1.00	.78	.64	.73	.35	.31	.32	.32	.40
15	.20	.45	.67	.90	.86	.62	.70	.37	.30	.26	.36	.40
16	.35	.46	.62	.85	.84	.73	.69	.38	.31	.27	.39	.42
17	.37	.42	.50	.92	.81	.75	.66	.37	.32	.27	.36	.44
18	.29	.55	.41	.91	.75	.76	.62	.31	.31	.29	.32	.43
19	.28	.62	.37	.88	.83	.71	.55	.32	.29	.29	.33	.38
20	.28	.60	.54	.80	.88	.67	.45	.32	.28	.29	.34	.43
21	.30	.55	.81	.86	.77	.72	.40	.32	.28	.30	.32	.42
22	.37	.54	.71	.94	.92	.65	.48	.32	.31	.31	.32	.42
23	.34	.54	.77	.78	.84	.61	.59	.36	.31	.29	.32	.41
24	.23	.53	.86	.74	.75	.62	.64	.35	.29	.28	.33	.41
25	.27	.60	.82	.73	.65	.59	.63	.32	.29	.29	.32	.41
26	.30	.53	.74	.82	.79	.54	.54	.32	.30	.29	.32	.38
27	.35	.48	.77	.95	.81	.61	---	.32	.32	.29	.33	.41
28	.34	.45	.80	.96	.77	.68	---	.29	.32	.29	.34	.55
29	.25	.61	.77	.93	---	.60	---	.29	.31	.32	.33	.50
30	.33	.62	.71	.88	---	.45	---	.33	.29	.29	.33	.44
31	.39	---	.67	.81	---	.53	---	.34	---	.28	.37	---
MAX	.39	.62	.86	---	1.06	.79	---	---	.38	.37	.39	.55
MIN	.13	.33	.37	---	.65	.45	---	---	.28	.26	.28	.34

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT

Periodic water-level measurements are made in areas adjacent to the Nevada Test Site to aid in characterizing the local and regional ground-water flow systems. The measurements are made in cooperation with the U.S. Department of Energy as part of their Environmental Restoration and Hydrologic Resources Management Programs. The following data have been collected and reviewed according to quality-assurance requirements specific to the Nevada Test Site. Data are listed by Nevada hydrographic area and then by descending latitude/longitude. The measurement sites are shown in figure 20.

Site Identification.—U.S. Geological Survey site designation.

Elevation.—Datum is sea level. Value may not represent current elevation.

Hole Depth.—Datum is land surface. Represents most recent available accessible depth.

Depth of open interval.—Datum is land surface. Bottom of open interval may be deeper than accessible hole depth.

Type of Opening.—P, perforated or slotted casing; R, wire-wound; S, screen; X, open (uncased) hole.

Depth to water.—Datum is land surface. Levels above land surface-datum are listed as negative values. Values not representing static water level are noted in "Status" column.

Status.—D, dry; S, nearby site that taps the same aquifer was being pumped.

Method.—A, airline; S, steel tape; T, electric tape; Z, other.

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement		
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status Method
LIDA VALLEY (144)												
Ralston Well	373320117090601	37°33'20"	117°09'06"		4756	409				11/18/1998	307.4	T
										06/22/1999	307.3	T
STONE WALL FLAT (145)												
Hammel Mine	373228116472001	37°32'28"	116°47'20"		5540	123				11/17/1998	118.8	T
SARCOBATUS FLAT (146)												
TPJ-1	370840116510101	37°08'40"	116°51'01"	--/-/52	3991	107				11/18/1998	43.7	T
										06/22/1999	43.0	T
TPJ-2	370753116502701	37°07'53"	116°50'27"		4005					11/18/1998	57.3	T
										06/22/1999	57.7	T
USBLM Springdale	370648116473001	37°06'49"	116°47'32"		4035	117				11/18/1998	93.59	S
										06/22/1999	93.6	T
GOLD FLAT (147)												
TTR Sulfide Mine	373446116433301	37°34'46"	116°43'33"		6130					11/17/1998	50.5	T
										06/23/1999	51.4	T
CACTUS FLAT (148)												
TTR Sandia 5	374959116431301	37°49'59"	116°43'13"		5334	300				11/17/1998	156.9	T
										06/23/1999	157.0	T
TTR Dead Horse Well	374910116373001	37°49'10"	116°37'30"		5540	390				11/17/1998	360.1	T
										06/23/1999		D
TTR Sandia 4	374739116453401	37°47'39"	116°45'34"	07/02/59	5468	580	351	466	P	11/17/1998	338.6	T
										06/23/1999	338.8	T
TTR Sandia 2	374725116452701	37°47'25"	116°45'27"	09/15/56	5478	525	325	485	P	11/17/1998	347.1	T
										06/23/1999	347.4	T
TTR EH-2 WW	374658116464102	37°46'58"	116°46'41"		5595	580				11/17/1998	455	A
										06/23/1999	454	A
TTR EH-4	374619116435401	37°46'19"	116°43'54"	11/03/83	5458	490	150	490	P	11/17/1998	315.5	T
										06/23/1999	315.6	T
TTR Antelope Mine 3	373623116434701	37°36'23"	116°43'47"		6362					11/17/1998	26.3	T
										06/23/1999	28.1	T
TTR Antelope Mine 2	373622116434701	37°36'22"	116°43'47"		6356					11/17/1998	19.1	T
										06/23/1999	21.4	T
TTR Antelope Mine 1	373622116434601	37°36'22"	116°43'46"		6350					11/17/1998	15.5	T
										06/23/1999	17.4	T
STONE CABIN VALLEY (149)												
TTR Reeds Ranch Well	375453116450501	37°54'53"	116°45'05"		5384	127				11/17/1998	100.46	S
										06/23/1999	100.5	T
TTR Sandia 3	375429116463201	37°54'30"	116°46'31"	06/10/59	5366	250	145	250	P	11/17/1998	120	A
										06/23/1999	122	A
TTR EH-7 WW	375310116472302	37°53'10"	116°47'23"	09/01/89	5343	660	304	650	R	11/17/1998	106	A
										06/23/1999	106	A

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status Method	
STONE CABIN VALLEY (149)—Continued													
TTR EH-6	375139116460001	37°51'39"	116°46'05"	11/17/83	5355	535	0	310	P	11/17/1998	98.1	T	
										06/23/1999	98.2	T	
TTR 3BB	375055116460201	37°50'55"	116°46'03"		5358					06/23/1999	109.6	T	
TTR 3B WW	375054116460201	37°50'54"	116°46'03"	01/11/85	5360	300	145	284	S	11/17/1998	114	A	
										06/23/1999	116	A	
TTR 3A WW	375045116460201	37°50'45"	116°46'03"	03/04/80	5362	805	537	805	X	11/17/1998	200.5	T	
										06/23/1999	200.3	T	
HOT CREEK VALLEY (156)													
UC-1-P-2SR	383806116125951	38°38'06"	116°12'54"	04/06/68	6084	2734	1150	1940	P	11/18/1998	618.1	T	
							1150	2790	P				
HTH-2	383734116124502	38°37'40"	116°12'47"	08/12/67	6025	1000	504	1000	P	11/18/1998	554.9	T	
HTH-1	383734116124501	38°37'35"	116°12'45"	07/23/67	6011	3695	150	345	P	11/18/1998	536.6	T	
							355	510	P				
							700	850	P				
							950	1150	P				
							1400	1500	P				
							1660	1720	P				
							1850	1980	P				
							2200	2300	P				
							2400	2460	P				
							2640	2710	P				
							2950	3010	P				
							3590	3660	P				
Blue Jay Maintenance	382205116132500	38°22'15"	116°13'34"		5238	238				11/18/1998	40.6	T	
										06/22/1999	40.6	T	
FRENCHMAN FLAT (160)													
TW-3	364830115512601	36°48'30"	115°51'26"	05/09/62	3489	1356	1190	1520	P	04/28/1999	1105.2	T	
INDIAN SPRINGS VALLEY (161)													
USAF MW-20	363529115392101	36°35'29"	115°39'21"	04/07/88	3093	65	35	65	S	12/10/1998	42.2	T	
										08/17/1999	41.4	T	
USAF MW-21	363529115391301	36°35'29"	115°39'13"	04/07/88	3094	75	45	75	S	12/10/1998	43.8	T	
										08/17/1999	43.3	T	
USAF MW-22	363508115391701	36°35'08"	115°39'17"	04/06/88	3100	65	35	65	S	12/10/1998	41.2	T	
										08/17/1999	40.4	T	
USAF Well 3	363452115405101	36°34'49"	115°40'53"	01/11/85	3130	600	210	305	S	12/09/1998	66.6	T	
							410	445	S	06/16/1999	66.5	T	
							490	550	S				
							560	600	S				
USAF Well 106-2	363447115404601	36°34'47"	115°40'50"	06/16/83	3085	604	133	418	P	12/09/1998	63.6	T	
										05/13/1999	66.10	S	
										05/24/1999	65.10	S	
										06/16/1999	63.8	T	
Cactus Springs 3	363422115433701	36°34'22"	115°43'37"		3265	100	83	100	P	11/19/1998	34.3	T	
										05/20/1999	34.1	T	
Army 2	363255115515801	36°32'54"	115°51'58"	09/03/58	3799	627	92	658	X	11/19/1998	497.6	T	
										05/20/1999	497.1	T	
Army 3	363238115464601	36°32'38"	115°46'46"	11/20/58	3617	826	310	435	P	11/19/1998	286.6	T	
							453	826	X	05/20/1999	286.2	T	
										05/21/1999	286.4	T	
										05/21/1999	286.4	T	
TIKAPOO VALLEY—SOUTHERN PART (169 B)													
USFWS DDL-1	365711115115201	36°57'11"	115°11'52"	10/01/86	3208	420				12/15/1998	157.7	T	
										06/16/1999		D	T
USGS DDL-2	365502115134101	36°55'02"	115°13'41"	01/21/89	3300	460	13	460	X	12/15/1998	213.0	T	
										06/16/1999	212.8	T	

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
LAS VEGAS VALLEY (212)													
DR-1	363332115244001	36°33'28"	115°24'38"	10/15/88	3579	957					12/15/1998	815.7	T
											05/18/1999	815.5	T
USAF Well 2372-1	362830115270501	36°28'30"	115°26'57"		3180	300					10/14/1998	212.72	S
											12/09/1998	212.9	T
											01/21/1999	212.76	S
											05/18/1999	212.64	S
											06/16/1999	212.6	T
											07/20/1999	212.44	S
MERCURY VALLEY (225)													
Army 6A	363437116010801	36°34'37"	116°01'08"	—/—/95	3445	1253	1160	1230	P		11/25/1998	1033.2	T
											05/13/1999	1032.9	T
OASIS VALLEY (228)													
*PM- 3-1 (1919-2144 feet)	371421116333703	37°14'21"	116°33'37"	02/05/92	5823	2145	1920	2140	P		11/03/1998	1457.8	T
							1870	2190	X		09/07/1999	1457.5	T
PM- 3-2 (1442-1667 feet)	371421116333704	37°14'21"	116°33'37"	02/10/92	5823	1667	1440	1670	P		12/02/1998	1455.6	T
							1380	1690	X		03/01/1999	1455.6	T
											05/10/1999	1455.6	T
											06/17/1999	1455.6	T
											09/07/1999	1455.7	T
ER-EC-01	371223116314701	37°12'23"	116°31'47"	04/20/99	6026	4791	2260	2870	X		05/10/1999	1855.5	T
							3290	3780	X		09/07/1999	1855.7	T
							4400	4790	X				
							2300	2820	P				
							3350	3760	P				
							4450	4750	P				
ER-EC-06	371120116294801	37°11'20"	116°29'48"	03/19/99	5605	4905	1630	1870	P		04/20/1999	1425.5	T
							2190	2510	P		09/07/1999	1425.6	T
							3440	3810	P				
							4420	4900	P				
							1580	1950	X				
							3390	3820	X				
							4370	5000	X				
ER-OV-01	370504116404901	37°05'04"	116°40'49"	08/04/97	4073	180	150	170	P		12/10/1998	18.4	T
											03/16/1999	18.2	T
											06/15/1999	18.2	T
											09/20/1999	18.2	T
ER-OV-06a	370504116404902	37°05'04"	116°40'49"	08/09/97	4073	536	506	526	P		11/24/1998	15.23	S
											12/01/1998	15.30	S
											12/10/1998	15.4	T
											01/07/1999	15.16	S
											02/01/1999	15.35	S
											03/10/1999	15.2	T
											03/16/1999	15.2	T
											04/15/1999	15.36	S
											05/12/1999	15.22	S
											06/15/1999	15.2	T
											06/21/1999	15.15	S
											07/20/1999	15.25	S
											08/09/1999	15.29	S
											09/15/1999	15.20	S
ER-OV-06a2	370504116404903	37°05'04"	116°40'49"	08/11/97	4073	65	56	65	P		12/10/1998	18.8	T
											03/16/1999	18.6	T
											06/15/1999	18.7	T
											09/20/1999	18.5	T
OVU-Dune Well	370301116421101	37°03'01"	116°42'11"	03/30/98	3883	16.9	12.0	16.5	P		10/05/1998	7.05	S
											11/05/1998	6.96	S
											12/01/1998	6.87	S
											01/07/1999	6.76	S

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
					Elevation (Feet above Sea Level)		Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
OASIS VALLEY (228)—Continued													
OVU-Dune Well	370301116421101	37°03'01"	116°42'11"	03/30/98	3883	16.9	12.0	16.5	P	02/01/1999	6.68	S	
										03/10/1999	6.55	S	
										04/15/1999	6.45	S	
										05/12/1999	6.45	S	
										06/21/1999	6.92	S	
										07/08/1999	7.06	S	
										07/20/1999	7.08	S	
										08/04/1999	7.13	S	
										09/15/1999	7.20	S	
OVU-Middle ET Well	370249116424101	37°02'49"	116°42'41"	12/16/98	3856	11.1	6.3	10.7	P	01/07/1999	1.70	S	
										01/11/1999	1.57	S	
										02/01/1999	0.93	S	
										03/10/1999	1.12	S	
										04/15/1999	1.27	S	
										05/12/1999	1.97	S	
										06/21/1999	3.05	S	
										07/08/1999	3.67	S	
										08/04/1999	4.07	S	
ER-OV-05	370246116461901	37°02'46"	116°46'19"	08/02/97	3938	200	170	190	P	09/15/1999	4.55	S	
										12/10/1998	31.9	T	
										03/16/1999	31.9	T	
										06/15/1999	31.9	T	
										09/20/1999	32.0	T	
OVU-Lower ET Well	370242116422901	37°02'42"	116°42'29"	07/21/98	3861	10.8	6.0	10.4	P	10/05/1998	5.72	S	
										11/05/1998	5.19	S	
										12/01/1998	4.77	S	
										01/07/1999	4.29	S	
										02/01/1999	3.99	S	
										03/10/1999	3.59	S	
										04/15/1999	3.31	S	
										05/12/1999	3.41	S	
										06/21/1999	4.40	S	
ER-OV-02	370210116421501	37°02'10"	116°42'15"	08/20/97	3880	200	170	190	P	07/08/1999	4.96	S	
										08/04/1999	5.52	S	
										09/15/1999	5.95	S	
										12/10/1998	28.5	T	
										03/16/1999	28.3	T	
Springdale Windmill Well	370218116455201	37°01'57"	116°45'31"	04/01/41	3870	18	40 60	60 120	P X	06/15/1999	28.3	T	
										09/20/1999	28.7	T	
										10/13/1998	14.31	S	
										11/05/1998	14.25	S	
										12/01/1998	14.17	S	
										01/11/1999	14.09	S	
										02/01/1999	13.78	S	
										03/10/1999	13.98	S	
										04/15/1999	13.94	S	
ER-OV-03b	370139116390501	37°01'39"	116°39'05"	08/29/97	4233	395	353	373	P	05/12/1999	13.95	S	
										06/21/1999	14.25	S	
										07/08/1999	14.46	S	
										08/04/1999	14.48	S	
										09/15/1999	14.54	S	
										12/10/1998	346.9	T	
										03/16/1999	346.3	T	
										06/15/1999	346.4	T	
										09/20/1999	346.4	T	
Springdale Upper Well	370131116440801	37°01'31"	116°44'08"		3775	91				10/05/1998	24.09	S	
										11/05/1998	24.06	S	
										12/01/1998	24.02	S	
										01/11/1999	23.88	S	
										02/01/1999	23.80	S	

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							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
OASIS VALLEY (228)–Continued													
Springdale Upper Well	3701131116440801	37°01'31"	116°44'08"		3775	91					03/10/1999	23.66	S
											04/15/1999	23.66	S
											05/12/1999	23.64	S
											06/21/1999	23.89	S
											07/08/1999	24.00	S
											08/04/1999	24.13	S
											09/15/1999	24.30	S
Springdale Lower Well	3701131116435301	37°01'13"	116°43'53"	06/11/96	3710	11.3	6.3	11.2	P	10/05/1998	5.40	S	
										11/05/1998	4.19	S	
										12/01/1998	3.01	S	
										01/11/1999	0.03	S	
										02/01/1999	-0.04	S	
										03/10/1999	-0.02	S	
										04/15/1999	0.13	S	
										05/12/1999	1.07	S	
										06/21/1999	2.95	S	
										07/08/1999	4.15	S	
										08/04/1999	5.13	S	
										09/15/1999	6.50	S	
Springdale ET Deep Well	3701131116434901	37°01'13"	116°43'49"	06/11/96	3714.2	9.0	6.5	8.8	P	10/05/1998	-0.20	S	
										11/05/1998	-1.07	S	
										12/01/1998	-1.46	S	
										12/16/1998	-1.58	S	
										01/11/1999	-1.69	S	
										02/01/1999	-1.80	S	
										03/10/1999	-1.94	S	
										04/15/1999	-1.97	S	
										05/12/1999	-0.53	S	
										06/21/1999	-0.49	S	
										07/08/1999	-0.23	S	
										08/04/1999	0.03	S	
Springdale ET Shallow Well	3701131116434902	37°01'13"	116°43'49"	08/12/96	3714.2	5.6	465	5.4	P	10/05/1998	2.04	S	
										11/05/1998	0.19	S	
										12/01/1998	-0.01	S	
										12/16/1998	-0.04	S	
										01/11/1999	-0.12	S	
										02/01/1999	-0.16	S	
										03/10/1999	-0.15	S	
										04/15/1999	-0.10	S	
										05/12/1999	-0.07	S	
										06/21/1999	0.88	S	
										07/08/1999	2.11	S	
										08/04/1999	2.40	S	
OVM ET Well	3700391116432401	37°00'39"	116°43'24"	05/01/97	3688	13.2	8.5	13.0	P	09/15/1999	2.56	S	
										10/05/1998	3.70	S	
										11/05/1998	3.56	S	
										12/01/1998	2.96	S	
										01/11/1999	2.14	S	
										02/01/1999	0.60	S	
										03/10/1999	0.71	S	
										04/15/1999	0.79	S	
										05/12/1999	1.72	S	
										06/21/1999	3.02	S	
										07/08/1999	3.53	S	
										08/04/1999	3.95	S	
ER-OV-03a	365956116421601	36°59'56"	116°42'16"	08/22/97	3844	251	220	240	P	09/15/1999	4.40	S	
										12/10/1998	56.9	T	
										03/16/1999	57.1	T	
										06/15/1999	57.1	T	
										09/20/1999	57.2	T	

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
OASIS VALLEY (228)—Continued													
ER-OV-03a2	365956116421602	36°59'56"	116°42'16"	09/12/97	3844	642	602	622	P	12/10/1998	159.9	T	
										03/16/1999	159.6	T	
										06/15/1999	159.4	T	
										09/20/1999	160.0	T	
ER-OV-03a3	365956116421603	36°59'56"	116°42'16"	09/12/97	3844	133	113	133	P	12/10/1998	56.7	T	
										03/16/1999	56.9	T	
										06/15/1999	56.9	T	
										09/20/1999	57.0	T	
ER-OV-03c	365948116360401	36°59'48"	116°36'04"	09/18/97	4192	542	512	532	P	12/10/1998	214.4	T	
										03/16/1999	214.2	T	
										06/15/1999	214.1	T	
										09/20/1999	214.2	T	
ER-OV-03c2	365948116360402	36°59'48"	116°36'04"	09/26/97	4192	321	292	312	P	12/10/1998	214.7	T	
										03/16/1999	214.5	T	
										03/29/1999	214.57	S	
										04/15/1999	214.70	S	
										05/12/1999	214.52	S	
										06/21/1999	214.49	S	
										07/20/1999	214.56	S	
										08/09/1999	214.53	S	
										09/15/1999	214.49	S	
Boiling Pot Road Well	365934116431601	36°59'34"	116°43'16"	05/01/97	3690.7	12.2	7.5	12.0	P	10/13/1998	2.56	S	
										11/05/1998	2.28	S	
										12/01/1998	1.96	S	
										01/11/1999	1.17	S	
										02/01/1999	0.59	S	
										03/10/1999	0.60	S	
										04/15/1999	0.64	S	
										05/12/1999	1.14	S	
										06/21/1999	2.40	S	
										07/08/1999	2.79	S	
										08/04/1999	2.84	S	
										09/15/1999	3.20	S	
Pioneer Road Seep Well	365929116434701	36°59'29"	116°43'47"	05/14/97	3650	6.7	2.0	6.6	P	10/27/1998	0.90	S	
										11/05/1998	0.76	S	
										12/01/1998	0.48	S	
										01/11/1999	0.37	S	
										02/01/1999	0.37	S	
										03/10/1999	0.38	S	
										04/15/1999	0.36	S	
										05/12/1999	0.49	S	
										06/21/1999	1.97	S	
										07/08/1999	2.34	S	
										08/04/1999	2.30	S	
										09/15/1999	2.14	S	
Ute Spring Drainage Well	365713116425301	36°57'13"	116°42'53"	05/20/97	3500	10.5	5.8	10.3	P	10/27/1998	4.33	S	
										11/05/1998	2.29	S	
										12/01/1998	1.28	S	
										01/11/1999	0.38	S	
										02/01/1999	0.22	S	
										03/10/1999	0.20	S	
										04/15/1999	0.22	S	
										05/12/1999	0.55	S	
										06/21/1999	3.23	S	
										07/08/1999	4.32	S	
										08/04/1999	4.12	S	
										09/15/1999	5.07	S	

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement		
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status Method
OASIS VALLEY (228)—Continued												
ER-OV-04a	365705116424201	36°57'05"	116°42'42"	10/01/97	3491	151	111	131	P	12/10/1998	24.1	T
										03/16/1999	23.6	T
										06/15/1999	23.8	T
										09/20/1999	24.3	T
Lower Indian Springs Well	365642116474501	36°56'42"	116°47'45"		4020					12/01/1998	2.94	S
										01/11/1999	2.93	S
										02/01/1999	2.94	S
										03/10/1999	2.78	S
										04/15/1999	1.77	S
										05/12/1999	1.83	S
										06/21/1999	1.43	S
										07/08/1999	1.43	S
										08/04/1999	1.24	S
										09/15/1999	1.15	S
										Beatty Wash Terrace Well	365640116431501	36°56'40"
11/05/1998	20.23	S										
12/01/1998	19.91	S										
01/11/1999	19.27	S										
02/01/1999	18.98	S										
03/10/1999	18.33	S										
04/15/1999	17.60	S										
05/12/1999	17.23	S										
06/21/1999	18.74	S										
07/08/1999	19.27	S										
08/04/1999	19.40	S										
BGC-2 Well	365355116451401	36°53'55"	116°45'14"		3261	40	20	40	P	09/15/1999	12.08	S
AMARGOSA DESERT (230)												
Narrows South Well 2	365253116450801	36°52'53"	116°45'08"	10/16/71	3180	120	20	120	P	05/12/1999	18.23	S
										07/20/1999	17.55	S
										08/04/1999	18.47	S
										09/15/1999	19.18	S
ASH-B Deep Well	364329116402901	36°43'29"	116°40'29"	12/16/94	2677	1214	1060	1180	P	11/18/1998	314.0	T
										05/25/1999	314.0	T
ASH-B Shallow Well	364329116402902	36°43'29"	116°40'29"	12/16/94	2677	457	362	428	P	11/18/1998	314.1	T
										05/25/1999	314.1	T
LWS-A Deep Well	363317116270801	36°33'17"	116°27'08"	12/02/94	2396	1859	1710	1830	P	11/18/1998	121.0	T
										05/25/1999	121.4	T
LWS-A Shallow Well	363317116270802	36°33'17"	116°27'08"	12/02/94	2396	312	212	278	P	11/18/1998	147.6	T
										05/25/1999	147.7	T
MSH-C Deep Well	363008116161201	36°30'08"	116°16'12"	11/23/94	2330	1669	1520	1640	P	05/25/1999	-3.05	S
MSH-C Shallow Well	363008116161202	36°30'08"	116°16'12"	11/23/94	2330	347	281	314	P	05/25/1999	-3.26	Z
Amargosa Flat Playa Well	362936116153001	36°29'36"	116°15'30"	02/13/95	2322	14.5	9.1	14.1	P	03/18/1999	4.06	S
										05/25/1999	4.3	T
F-Meadows Well	362859116201901	36°28'59"	116°20'18"	03/17/97	2249	6.8	3.4	6.6	P	10/19/1998	1.43	S
										11/09/1998	1.00	S
										12/01/1998	0.36	S
										01/11/1999	0.18	S
										02/01/1999	0.14	S
										03/18/1999	0.10	S
										04/15/1999	0.15	S
										04/23/1999	0.39	S
										05/10/1999	0.46	S
										06/21/1999	1.83	S
										07/20/1999	1.39	S
Spring Meadows 9	362425116181001	36°24'34"	116°18'11"	09/26/69	2248	280	82	280	P	10/01/1998	20.34	S
										05/25/1999	20.36	S

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
DEATH VALLEY (243)													
Pickleweed ET Well	361712116531201	36°17'12"	116°53'12"	03/31/98	-265	13.5	8.7	13.1	P	10/19/1998	5.42	S	
										11/09/1998	5.37	S	
										12/02/1998	5.18	S	
										01/13/1999	4.89	S	
										02/25/1999	4.58	S	
										03/24/1999	4.49	S	
										04/27/1999	4.37	S	
										05/10/1999	4.33	S	
										06/22/1999	4.77	S	
										07/22/1999	4.84	S	
										07/29/1999	4.97	S	
										09/02/1999	5.33	S	
S-Playa Deep Well	361340116470701	36°13'40"	116°47'07"	06/30/98	-280	13.4	11.7	13.3	P	10/19/1998	0.44	S	
										11/09/1998	0.75	S	
										12/02/1998	0.97	S	
										01/13/1999	1.36	S	
										02/25/1999	0.95	S	
										03/24/1999	1.00	S	
										04/27/1999	0.66	S	
										05/10/1999	0.60	S	
										06/22/1999	0.10	S	
										07/22/1999	0.10	S	
										07/29/1999	0.04	S	
										09/02/1999	-0.06	S	
S-Playa Middle Well	361340116470702	36°13'40"	116°47'07"	06/30/98	-280	7.7	6.0	7.6	P	10/19/1998	0.48	S	
										11/09/1998	0.71	S	
										12/02/1998	0.81	S	
										01/13/1999	1.06	S	
										02/25/1999	0.64	S	
										03/24/1999	0.68	S	
										04/27/1999	0.52	S	
										05/10/1999	0.38	S	
										06/22/1999	0.29	S	
										07/22/1999	0.28	S	
										07/29/1999	0.26	S	
										09/02/1999	0.30	S	
S-Playa Shallow Well	361340116470601	36°13'40"	116°47'06"	06/30/98	-280	3.9	2.7	3.7	P	10/19/1998	0.36	S	
										11/09/1998	0.54	S	
										12/02/1998	0.72	S	
										01/13/1999	0.88	S	
										02/25/1999	0.67	S	
										03/24/1999	0.73	S	
										04/27/1999	0.52	S	
										05/10/1999	0.38	S	
										06/22/1999	0.34	S	
										07/22/1999	0.32	S	
										07/29/1999	0.31	S	
										09/02/1999	0.37	S	
S-Badwater Deep Well	361252116462901	36°12'52"	116°46'29"	08/27/97	-275	10.8	8.2	10.7	P	10/19/1998	2.01	S	
										11/09/1998	2.12	S	
										12/02/1998	2.22	S	
										01/13/1999	2.47	S	
										01/13/1999	2.48	S	
										02/25/1999	3.26	S	
										03/24/1999	2.79	S	
										04/27/1999	2.51	S	
										05/10/1999	2.32	S	
										06/22/1999	2.10	S	
										07/22/1999	1.97	S	
										07/29/1999	1.99	S	
09/02/1999	2.09	S											

GROUND-WATER LEVELS

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NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Name	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
DEATH VALLEY (243)—Continued													
S-Badwater Shallow Well	361252116462902	36°12'52"	116°46'29"	08/27/97	-275	5.6	3.3	5.5	P	10/19/1998	1.80	S	
										11/09/1998	1.99	S	
										12/02/1998	2.05	S	
										01/13/1999	2.21	S	
										02/25/1999	2.02	S	
										03/24/1999	2.00	S	
										04/27/1999	1.82	S	
										05/10/1999	1.63	S	
										06/22/1999	1.58	S	
										07/22/1999	1.47	S	
07/29/1999	1.54	S											
	09/02/1999	1.78	S										

* Additional water-level data may be found in Nevada Test Site and Adjacent Areas monitoring project, Primary Observation Wells section.

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT

Periodic water-level measurements are made throughout the Nevada Test Site to aid in characterizing the local ground-water flow system. The measurements are made in cooperation with the U.S. Department of Energy as part of their Environmental Restoration. The following data have been collected and reviewed according to quality-assurance requirements specific to the Nevada Test Site. Data are listed by Nevada Test Site administrative area and then by hole number within each area. The measurement sites are shown in figure 20.

Site Identification.—U.S. Geological Survey site designation

Land Surface Elevation.—Datum is sea level. Value may not represent current elevation.

Hole Depth.—Datum is land surface. Represents most recent available accessible depth.

Depth of Open Interval.—Datum is land surface. Bottom of open interval may be deeper than accessible hole depth.

Type of Opening.—P, perforated or slotted casing; S, screen; X, open (uncased) hole.

Depth to Water.—Datum is land surface. Water levels represent a composite of all open intervals in well.

Status.—D, site was dry—depth to water greater than accessible hole depth; P, site was being pumped; R, site was recently pumped.

Method.—S, steel tape; T, electric tape; V, wire-line device.

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval(s)		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
AREA 1													
UE- 1a	370254116070601	37°02'54"	116°07'06"	02/02/64	4303	562	78	947	X	10/19/1998	545.4		T
							947	957	X	04/27/1999	545.2		T
UE- 1b	370254116064201	37°02'54"	116°06'42"	02/10/64	4273	701	76	80	X	04/27/1999	644.6		T
							80	1254	X				
UE- 1c	370253116055201	37°02'53"	116°05'52"	02/11/64	4206	1772	74	80	X	10/19/1998	1297.6		T
							80	1880	X	04/27/1999	1297.4		T
UE- 1h	370005116040301	37°00'05"	116°04'03"	07/03/68	3995	3228	2134	2349	X	10/19/1998	1556.1		T
							2349	3358	X	04/27/1999	1555.9		T
UE- 1L (2284 ft)	370254116082002	37°02'54"	116°08'20"	11/11/77	4454	2284	716	726	X	10/19/1998	519.3		T
							726	2284	X	04/27/1999	519.2		T
UE- 1q (2600 ft)	370337116033002	37°03'37"	116°03'30"	05/22/92	4082	2600	2459	2470	X	12/14/1998	1655.6		T
							2470	2600	X	03/15/1999	1655.7		T
										06/21/1999	1655.4		T
										09/09/1999	1655.8		T
AREA 2													
U - 2gk	370720116041601	37°07'20"	116°04'16"	10/19/92	4241	1809	116	118	X	11/09/1998	1779.89		S
							118	120	X	05/04/1999	1779.55		S
							120	1809	X	09/21/1999	1779.52		S
*UE- 2ce	370831116080701	37°08'31"	116°08'07"	1/23/77	4764	1649	1384	1624	P	10/07/1998	1446.5		T
							1444	1504	P	12/02/1998	1446.6		T
							1445	1505	P	01/05/1999	1446.8		T
							1624	1650	X	01/13/1999	1446.8		T
										04/27/1999	1446.7		T
WW- 2 (3422 ft)	370958116051512	37°09'58"	116°05'15"	03/11/62	4470	3422	2700	2950	P	12/08/1998	2053.3		T
							3164	3412	P	03/15/1999	2052.9		T
										06/21/1999	2052.9		T
										09/09/1999	2053.1		T
AREA 3													
ER- 3-1-2 (shallow)	370116115561302	37°01'09"	115°56'09"	05/20/94	4408	2310	2208	2310	X	12/09/1998	2015.8		T
							2260	2290	P	03/18/1999	2015.6		T
										07/08/1999	2015.7		T
										09/14/1999	2015.4		T
ER- 3-2-2 (middle)	370214116021002	37°02'14"	116°02'10"	02/18/94	4008	2655	2588	2636	X	12/09/1998	1604.8		T
							2614	2634	P	03/17/1999	1608.5		T
										06/21/1999	1607.7		T
										09/14/1999	1607.5		T
TW- 7	370353116020201	37°03'53"	116°02'02"	06/27/54	4063	2239	1710	1720	P	10/20/1998	1641.6		T
							1925	1935	P	04/26/1999	1642.8		T
							1970	2014	P				T
							1977	2251	P				T
U - 3cn 5	370320116012001	37°03'34"	116°01'21"	02/07/66	4012	2830	2832	2835	X	10/20/1998	1620.4		T
							2835	3028	X	04/26/1999	1620.4		T
							3028	3030	X				

GROUND-WATER LEVELS

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NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
AREA 3—Continued													
U - 3mi	370020115593001	37°00'21"	115°59'30"	01/20/86	4004	1761	372	380	X	10/21/1998	1558.9		T
							380	1794	X	04/26/1999	1558.8		T
UE- 3e 4-1 (2181 ft)	370411116025910	37°04'11"	116°02'59"	03/19/90	4082	2181	2150	2171	S	10/20/1998	1196.6		T
										05/06/1999	1210.0		T
UE- 3e 4-2 (1919 ft)	370411116025911	37°04'11"	116°02'59"	03/22/90	4082	1919	1887	1908	S	10/20/1998	1389.2		T
										05/06/1999	1393.9		T
UE- 3e 4-3 (1661 ft)	370411116025912	37°04'11"	116°02'59"	03/26/90	4082	1661	1619	1640	S	10/20/1998	1550.4		T
										05/06/1999	1550.1		T
WW- A (1870 ft)	370142116021101	37°02'13"	116°02'10"	09/05/60	4006	1870	1555	1600	X	12/09/1998	1602.2		T
							1600	1870	X	03/17/1999	1601.6		T
							1608	1870	P	06/21/1999	1601.5		T
										09/14/1999	1601.6		T
AREA 4													
TW- D	370418116044501	37°04'28"	116°04'30"	01/08/61	4152	1950	1772	1792	P	10/20/1998	1723.4		T
							1792	1812	P	04/26/1999	1723.2		T
							1812	1832	P				
							1832	1882	P				
							1900	1950	X				
AREA 5													
RNM-2S	364922115580101	36°49'21"	115°58'01"	04/01/74	3133	1120	1038	1119	P	10/21/1998	723.4		T
							1120	1156	X	04/28/1999	723.0		T
UE- 5n	364915115574101	36°49'15"	115°57'41"	03/01/76	3112	1687	720	730	P	10/21/1998	705.3		T
							1523	1687	X	04/28/1999	705.1		T
WW- 5A	364635115572901	36°46'35"	115°57'29"	03/23/51	3093	887	642	877	P	10/27/1998	710.9		T
							877	910	X	11/12/1998	711.35		S
										03/15/1999	710.8		T
										05/04/1999	711.01		S
										05/05/1999	711.61		S
										06/30/1999	711.7		T
										07/29/1999	711.85		S
										09/16/1999	711.6		T
										09/21/1999	711.40		S
AREA 6													
ER- 6-1 (big)	365904115593401	36°59'04"	115°59'34"	07/23/92	3935	2129	1819	2097	X	12/07/1998	1547.1		T
							2097	2129	X	03/15/1999	1546.4		T
										07/01/1999	1546.7		T
										09/13/1999	1546.9		T
ER- 6-1 (small)	365904115593403	36°59'04"	115°59'34"	07/23/92	3935	1790	1435	1542	X	12/07/1998	1473.8		T
							1480	1508	P	03/15/1999	1473.5		T
										07/01/1999	1473.7		T
										09/13/1999	1473.9		T
ER- 6-1 1S	365904115593402	36°59'04"	115°59'34"	07/16/93	3935	1940	1814	1940	P	12/07/1998	1546.8		T
							1835	2052	X	03/15/1999	1546.1		T
										07/01/1999	1546.4		T
										09/13/1999	1545.9		T
ER- 6-2 (2008 ft)	365740116043501	36°57'40"	116°04'35"	08/30/95	4231	2008	1746	1898	X	12/07/1998	1787.4		T
							1898	2006	X	03/15/1999	1786.8		T
							2006	2008	X	07/01/1999	1786.9		T
										09/14/1999	1786.9		T
TW- B	365849116002101	36°58'45"	116°00'49"	05/14/61	3929	1670	1432	1452	P	11/10/1998	1504.49		S
							1512	1656	P	11/25/1998	1504.6		T
										05/04/1999	1504.15		S
										07/29/1999	1504.44		S
										09/21/1999	1504.51		S

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement				
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method	
AREA 6—Continued														
UE- 6d	365905116033201	36°59'05"	116°03'32"	05/01/68	3947	3864	2125	2617	X	10/21/1998	1514.7		T	
								2617	3886	X	04/27/1999	1514.4		T
									3886	3896	X			
UE- 6e	365905116012001	36°59'05"	116°01'20"	11/01/73	3936	4208	2090	2886	X	12/07/1998	1511.3		T	
								2886	4209	X	03/15/1999	1510.7		T
										07/01/1999	1511.1		T	
										09/13/1999	1510.8		T	
WW- 3	365942116032901	36°59'43"	116°03'29"	03/05/52	3969	1800	1535	1765	P	12/07/1998	1532.3		T	
								1575	1800	X	03/15/1999	1531.5		T
										07/08/1999	1532.1		T	
										09/13/1999	1532.1		T	
WW- 4	365418116012601	36°54'18"	116°01'26"	11/18/81	3602	1479	942	1436	P	10/21/1998	842.3		T	
								1438	1479	X	04/27/1999	842.4		T
WW- 4A	365412116013901	36°54'12"	116°01'39"	02/21/90	3606	1502	1066	1281	P	10/21/1998	837.2		T	
								1365	1457	P	04/27/1999	848.3		T
								1501	1516	X				
AREA 7														
UE- 4t 1	370556116025405	37°05'56"	116°02'54"	10/24/90	4144	2010	1906	2010	X	12/09/1998	396.2		T	
								1963	1992	P	03/15/1999	401.4		T
										06/21/1999	406.1		T	
										09/13/1999	411.0		T	
UE- 4t 2	370556116025406	37°05'56"	116°02'54"	10/24/90	4144	1754	1564	1754	X	12/09/1998	1167.6		T	
								1664	1724	P	03/15/1999	1165.5		T
										06/21/1999	1159.8		T	
										09/13/1999	1164.3		T	
UE- 7nS	370556116000901	37°05'56"	116°00'09"	07/14/76	4370	2205	1960	2020	P	10/19/1998	1969.4		T	
								1962	2022	P	04/26/1999	1969.4		T
								1995	2199	P				
								2199	2205	X				
AREA 8														
UE-10j	371108116045301	37°11'08"	116°04'53"	5/27/65	4574	2380	55	2380	X	12/08/1998	2160.0		T	
										03/15/1999	2159.5		T	
										06/21/1999	2159.5		T	
										09/09/1999	2159.6		T	
AREA 11														
UE-11a	365259115571601	36°52'59"	115°57'16"	09/04/82	3547	1130	599	610	X	10/21/1998		D	T	
							610	1400	X	04/28/1999		D	T	
AREA 12														
ER-12-1	371106116110401	37°11'06"	116°11'03"	11/24/92	5817	3434	1641	1709	X	12/08/1998	1527.8		T	
								1693	1821	P	03/15/1999	1527.7		T
								1709	1846	X	06/21/1999	1527.4		T
								1757	1761	Z	09/09/1999	1527.6		T
U -12s (1480 ft)	371342116125102	37°13'42"	116°12'51"	03/15/66	6794	1467	12	583	X	11/30/1998	930.1		T	
UE-12t 6 (1461 ft)	371332116112802	37°13'32"	116°11'28"	09/16/88	6907	1461	583	1480	X	05/11/1999	928.1		T	
							23	75	X	05/11/1999	841.9		T	
							416.0	416.1	P					
							466.0	466.1	P					
							490.0	490.1	P					
							540.0	540.1	P					
							570.0	570.1	P					
							620.0	620.1	P					
674	1461	X												

GROUND-WATER LEVELS

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NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement			
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method
AREA 14													
UE-14b	365550116091101	36°55'50"	116°09'11"	01/30/84	4353	3680	2051	2060	X	10/21/1998	1666.4		T
							2060	3680	X	04/28/1999	1666.0		T
AREA 15													
U -15k Test Hole	371346116032601	37°13'46"	116°03'26"	9/20/79	5168	824	404	408	X	10/19/1998	658.7		T
							408	824	X	04/26/1999	659.6		T
AREA 16													
UE-16f (1479 ft)	370208116092402	37°02'08"	116°09'24"	09/23/77	4652	1409	1293	1479	X	10/19/1998	366.7		T
										05/05/1999	366.60		S
AREA 17													
TW- 1 (3694 ft)	370929116132311	37°09'29"	116°13'23"	--/--/1980	6156	3694	1910	1950	P	11/30/1998	1463.0		T
							2030	2050	P	05/11/1999	1462.8		T
							2100	2160	P				
							2230	2270	P				
							2370	2430	P				
UE-17a	370425116095801	37°04'25"	116°09'58"	09/23/76	4696	1207	745	825	P	10/19/1998	633.2		T
							1005	1015	P	04/27/1999	632.8		T
							1065	1190	P				
							1210	1214	X				
AREA 18													
ER-18-2	370615116222401	37°06'15"	116°22'24"	05/14/99	5436	2143	1351	2500	X	05/24/1999	1224.5		T
							1930	1960	P				
							2000	2030	P				
							2071	2101	P				
UE-18r	370806116264001	37°08'05"	116°26'41"	01/24/68	5538	4930	1629	1632	X	12/14/1998	1364.2		T
							1632	4988	X	03/17/1999	1364.2		T
							4988	5004	X	07/12/1999	1364.4		T
UE-18t	370741116194501	37°07'41"	116°19'45"	10/05/78	5201	2600	1896	2600	X	09/08/1999	1364.2		T
										12/01/1998	914.5		T
										05/19/1999	914.4		T
AREA 19													
ER-19-1-1 (deep)	371043116142101	37°10'43"	116°14'21"	12/17/93	6140	3578	3210	3560	X	09/08/1999	1793.5		T
							3249	3309	P				
							3451	3510	P				
ER-19-1-2 (middle)	371043116142102	37°10'43"	116°14'21"	12/17/93	6140	2720	2550	2738	X	09/08/1999	1233.5		T
							2700	2720	P				
U -19bh	371349116222001	37°13'49"	116°22'20"	06/14/91	6768	2148	70	72	X	12/03/1998	2089.8		T
							72	2148	X	05/19/1999	2089.2		T
U -19bj	371736116184701	37°17'36"	116°18'47"	06/02/92	7034	2153	57	62	X	12/03/1998	2134.9		T
							62	2153	X	05/17/1999	2135.0		T
U -19bk	371714116230301	37°17'14"	116°23'03"	12/11/91	6670	2198	57	62	X	12/03/1998	1984.5		T
							62	2198	X	05/17/1999	1984.8		T
UE-19c WW	371608116191002	37°16'08"	116°19'10"	06/30/75	7033	8489	2421	3209	X	12/03/1998	2339.4		T
							3209	8489	X	03/17/1999	2339.6		T
										07/05/1999	2339.7		T
										09/08/1999	2339.8		T
UE-19h	372034116222504	37°20'34"	116°22'25"	01/17/92	6780	2288	2050	2283	P	12/08/1998	2111.1		T
										03/17/1999	2110.9		T
										07/05/1999	2111.0		T
										09/07/1999	2110.9		T

GROUND-WATER LEVELS

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT--Continued

Hole Number	Site Identification	Latitude	Longitude	Date Hole Completed	Land Surface Elevation (Feet above Sea Level)	Hole Depth (feet)	Depth of Open Interval		Type of Opening	Water-Level Measurement							
							Top (feet)	Bottom (feet)		Date	Depth to Water (feet)	Status	Method				
AREA 20																	
ER-20-1	371321116292301	37°13'21"	116°29'29"	09/09/92	6181	2065	1940	2065	X	12/08/1998	1988.6		T				
										03/01/1999	1988.4		T				
										06/17/1999	1988.5		T				
										09/07/1999	1988.5		T				
ER-20-2-1	371246116240101	37°12'46"	116°24'01"	08/03/93	6670	2524	2303	2524	X	12/03/1998	2270.9		T				
										2368	2494	P	03/17/1999	2271.3		T	
													06/17/1999	2271.4		T	
													09/08/1999	2271.3		T	
*ER-20-6-1	371537116251501	37°15'37"	116°25'15"	03/15/96	6475	2924	2437	2947	X	03/30/1999	2024.5		T				
												2548	2753	P			
												2841	2929		P		
*ER-20-6-3	371533116251801	37°15'33"	116°25'18"	04/16/96	6466	2805	2436	2807	X	03/31/1999	2016.0		T				
												2496	2789	P	04/01/1999	2016.1	
PM- 1 (7731 ft)	371649116242102	37°16'49"	116°24'21"	05/03/64	6558	7731	7543	7550	X	12/01/1998	2096.6		T				
										7550	7731	X	05/10/1999	2096.5		T	
* PM- 2	372042116340501	37°20'42"	116°34'05"	05/01/66	5592	8788	2506	2526	P	10/05/1998	858.6		T				
										2556	2566	P	05/10/1999	858.5		T	
										2616	2646				P		
										2916	2956	P					
										3456	3466	P					
										3526	3596	P					
										3896	3906	P					
										4406	4436	P					
										5126	5146	P					
										5256	5296	P					
										5498	5506	X					
										5506	6086	X					
U -20 WW (cased)	371505116254501	37°15'05"	116°25'45"	07/22/85	6468	3268	2271	3035	P	12/02/1998	2058.9	P R	V				
										3199	3268		X	05/19/1999	2068.2		T
U -20bg	371414116242901	37°14'14"	116°24'29"	12/19/90	6567	2200	58	540	X	12/02/1998	2137.8		T				
										540	2200	X	05/17/1999	2137.8		T	
UE-20bh 1	371442116243301	37°14'42"	116°24'33"	09/29/91	6637	2810	1936	2810	X	12/01/1998	2214.3		T				
										05/17/1999	2215.2		T				
*UE-20n 1 (2834 ft)	371425116251902	37°14'25"	116°25'19"	06/10/87	6461	2834	2282	2323	X	11/04/1998	2042.9		T				
										2323	2407	X	02/11/1999	2043.1		T	
										2407	2834	X	02/22/1999	2043.0		T	
AREA 23																	
SM-23-1	363905116005801	36°39'05"	116°00'57"		3543	1338				12/14/1998	1164.2		T				
										03/17/1999	1164.3		T				
										06/30/1999	1164.3		T				
										09/16/1999	1164.3		T				
AREA 27																	
TW- F (3400 ft)	364534116065902	36°45'34"	116°06'59"	06/12/62	4143	3400	3150	3379	X	12/01/1998	1735.7		T				
										3379	3400	X	05/27/1999	1735.4		T	

* Additional water-level data may be found in Nevada Test Site and Adjacent Areas monitoring project, Primary Observation Wells section.

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT

Periodic discharge measurements are made in areas adjacent to the Nevada Test Site to aid in characterizing the local and regional spring and ground-water flow systems. The measurements are made in cooperation with the U.S. Department of Energy as part of their Environmental Restoration and Hydrologic Resources Management Programs. The following data have been collected and reviewed according to quality-assurance requirements specific to the Nevada Test Site. Data are listed by descending latitude/longitude. The measurement sites are shown in figure 20.

Site Identification.—U.S. Geological Survey site designation.

Elevation.—Datum is sea level. Value may not represent current elevation.

Measurement method: C, current meter; E, estimated; F, flume; V, volumetric; Z, other.

Name	Site Identification	Latitude	Longitude	Land Surface Elevation (Feet above Sea Level)	Measurement		
					Date	Discharge (GPM)	Method
OASIS VALLEY (228)							
OVU Culvert	370158116431801	37°01'58"	116°43'18"	3770	10/05/1998	0.75	E
					01/07/1999	100	V
					03/29/1999	90	V
					04/19/1999	100	Z
					07/20/1999	0	E
Springdale Culvert	370052116433501	37°00'52"	116°43'35"	3695	09/17/1999	0	E
					10/05/1998	0	E
					01/07/1999	33.7	F
					04/19/1999	40.0	F
					07/20/1999	0	E
Oleo Rd Spring	370020116423101	37°00'20"	116°42'31"	3830	09/17/1999	0	E
					10/05/1998	33.7	F
					04/19/1999	26.8	F
					09/17/1999	33.7	F
Hot Springs Pump House	365828116431701	36°58'28"	116°43'17"	3590	10/05/1998	1.32	V
					03/29/1999	10.0	V
					04/19/1999	1	E
					09/17/1999	9.43	V
Hot Springs Bath House 1	365827116431601	36°58'27"	116°43'16"	3590	10/05/1998	27.1	V
					03/29/1999	31.3	V
					04/19/1999	31.3	V
					09/17/1999	29.4	V
Hot Springs Bath House 2	365825116431502	36°58'26"	116°43'16"	3590	10/05/1998	11.0	V
					03/29/1999	11.0	V
					04/19/1999	7.54	V
					09/17/1999	9.43	V
Hot Springs below culvert 1	365826116431501	36°58'25"	116°43'14"	3590	10/05/1998	4.94	F
					03/29/1999	6.62	F
					04/19/1999	5.84	F
					09/17/1999	6.62	F
Hot Springs above culvert 2	365842116431201	36°58'24"	116°43'12"	3588	10/05/1998	1	E
					03/29/1999	1	E
					04/19/1999	1	E
					09/17/1999	1	E
Hot Springs Culvert 2	365844116431201	36°58'23"	116°43'13"	3585	10/05/1998	77.7	Z
					01/07/1999	77.2	Z
					03/29/1999	82.6	Z
					04/19/1999	80.8	Z
					07/20/1999	74.1	Z
Star Spring	365636116430801	36°56'32"	116°43'40"	3460	09/17/1999	77.6	Z
					10/05/1998	21.3	V
					01/07/1999	19.5	V
					03/29/1999	19.8	V
					04/19/1999	17.8	V
					07/20/1999	18.5	V
					09/17/1999	21.2	V

SPRING DISCHARGE

NEVADA TEST SITE AND ADJACENT AREAS MONITORING PROJECT—Continued

Name	Site Identification	Latitude	Longitude	Land Surface Elevation (Feet above Sea Level)	Measurement		
					Date	Discharge (GPM)	Method
OASIS VALLEY (228)—Continued							
Revert Springs Channel	365455116450501	36°54'55"	116°45'05"	3340	10/05/1998	185	C
					01/07/1999	234	C
					04/19/1999	250	C
					07/20/1999	160	C
					09/17/1999	186	C
Narrows Spring	365342116450601	36°53'10"	116°44'59"	3170	10/05/1998	1	E
					01/07/1999	9.88	F
					04/19/1999	18.9	F
					08/09/1999	2	E
					09/17/1999	1	E

NEVADA TEST SITE

Ground-water withdrawals at the Nevada Test Site (NTS) are compiled in cooperation with the U.S. Department of Energy Hydrologic Resources Management Programs. The data are provided by Bechtel Nevada, which maintains the production wells at NTS. The following data have been reviewed according to quality-assurance requirements specific to the Nevada Test Site. The following sites are shown in figure 20.

Station Identification	Hole Number	Latitude	Longitude	Ground-water Withdrawals	
				Month	Millions of Gallons
365011115584702	UE- 5c WW	36°50'11"	115°58'47"	October	0.000
				November	0.010
				December	0.000
				January	0.036
				February	0.000
				March	0.000
				April	0.023
				May	0.000
				June	0.000
				July	0.110
				August	0.000
				September	0.000
				Total	0.180
364805115580801	WW- 5B	36°48'05"	115°58'08"	October	3.532
				November	3.203
				December	3.165
				January	4.277
				February	3.522
				March	3.850
				April	3.072
				May	3.579
				June	4.047
				July	3.852
				August	3.588
				September	3.518
				Total	43.204
364708115574401	WW- 5C	36°47'20"	115°57'49"	October	3.043
				November	2.856
				December	2.594
				January	3.145
				February	2.801
				March	3.082
				April	2.518
				May	2.845
				June	2.801
				July	3.085
				August	2.924
				September	2.601
				Total	34.295
365418116012601	WW- 4	36°54'18"	116°01'26"	October	1.919
				November	0.575
				December	0.512
				January	0.601
				February	0.573
				March	0.945
				April	1.879
				May	2.626
				June	1.049
				July	0.196
				August	0.000
				September	0.182
				Total	11.055

GROUND-WATER WITHDRAWALS

NEVADA TEST SITE--Continued

Station Identification	Hole Number	Latitude	Longitude	Ground-water Withdrawals	
				Month	Millions of Gallons
365412116013901	WW- 4A	36°54'12"	116°01'39"	October	3.545
				November	3.375
				December	2.679
				January	4.033
				February	3.557
				March	4.750
				April	3.709
				May	4.998
				June	4.146
				July	5.040
				August	5.242
				September	4.959
				Total	50.033
365508116003502	WW- C	36°55'08"	116°00'35"	October	0.000
				November	0.000
				December	0.000
				January	0.000
				February	0.000
				March	0.000
				April	0.000
				May	0.000
				June	0.000
				July	0.000
				August	0.000
				September	0.000
				Total	0.000
365500116003901	WW- C-1	36°55'00"	116°00'39"	October	0.871
				November	0.529
				December	0.441
				January	0.901
				February	0.728
				March	1.415
				April	2.153
				May	3.780
				June	1.197
				July	0.928
				August	1.954
				September	1.523
				Total	16.419
370412116095101	UE-16d WW	37°04'12"	116°09'51"	October	2.702
				November	4.233
				December	2.833
				January	1.465
				February	0.358
				March	0.566
				April	3.165
				May	6.831
				June	2.203
				July	6.158
				August	6.413
				September	4.972
				Total	41.898

GROUND-WATER WITHDRAWALS

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NEVADA TEST SITE--Continued

Station Identification	Hole Number	Latitude	Longitude	Ground-water Withdrawals	
				Month	Millions of Gallons
370956116172101	WW- 8	37°09'56"	116°17'21"	October	1.317
				November	0.720
				December	0.699
				January	0.439
				February	1.415
				March	1.257
				April	1.129
				May	0.453
				June	2.025
				July	1.649
				August	1.483
				September	1.077
				Total	13.663
371608116191002	UE-19c WW	37°16'08"	116°19'10"	October	0.000
				November	0.000
				December	0.000
				January	0.000
				February	0.000
				March	0.000
				April	0.000
				May	0.000
				June	0.000
				July	0.000
				August	0.000
				September	0.000
				Total	0.000
371505116254501	U -20 WW	37°15'05"	116°25'45"	October	5.005
				November	0.886
				December	0.000
				January	0.000
				February	2.226
				March	4.731
				April	4.897
				May	3.324
				June	0.000
				July	0.000
				August	0.000
				September	0.000
				Total	21.068
363530116021401	Army 1 WW	36°35'30"	116°02'14"	October	0.000
				November	0.000
				December	0.000
				January	0.012
				February	0.005
				March	0.119
				April	0.246
				May	0.632
				June	0.037
				July	0.185
				August	0.103
				September	0.082
				Total	1.422

GROUND-WATER WITHDRAWALS

NEVADA TEST SITE--Continued

Station Identification	Hole Number	Latitude	Longitude	Ground-water Withdrawals	
				Month	Millions of Gallons
364554116232401	J -12 WW	36°45'54"	116°23'24"	October	0.800
				November	0.211
				December	0.115
				January	0.144
				February	0.097
				March	0.115
				April	0.184
				May	0.341
				June	0.660
				July	1.472
				August	0.559
				September	1.292
				Total	5.989
364828116234001	J -13 WW	36°48'28"	116°23'40"	October	5.378
				November	4.127
				December	2.865
				January	1.834
				February	1.746
				March	2.669
				April	2.472
				May	2.469
				June	3.161
				July	2.073
				August	2.276
				September	2.293
				Total	33.364

GROUND-WATER LEVELS

YUCCA MOUNTAIN GROUND-WATER MONITORING PROJECT

Periodic water-level measurements are made throughout the Yucca Mountain area to support environmental and regulatory aspects of the Yucca Mountain Project. The following data, which do not include data collected as part of the Site-Characterization Program nor continual records developed from pressure-sensor data, have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project. The following sites are shown in figure 20.

ELEVATION: Land surface datum.

CONTRIBUTING UNITS: Saturated lithologic interval yielding water to well; C, carbonate rock; F, valley fill; S, undifferentiated sedimentary rock; V, volcanic rock.

WATER-LEVEL STATUS: F, flowing; P, pumping; Z, other.

WATER-LEVEL METHOD: S, steel tape; V, calibrated electric-tape.

Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Contri- buting Units	Water Level (Below Land Surface)			
						Date	(Feet)	Status	Method
225 S16 E53 05ADB 1	Army 1 WW	363530116021401	3153.3	1953.	C	10/29/1998	784.91	Z	V
						11/25/1998	785.24	Z	V
						12/22/1998	785.08	Z	V
226 S15 E50 24A 1	TW- 5	363815116175901	3056.0	800.	S	10/28/1998	677.11		V
						11/25/1998	677.10		V
						12/18/1998	677.09		V
227A S12 E50 33A 1	UE-25 WT 15	365116116233801	3553.8	1360.		10/15/1998	1160.99		S
						10/29/1998	1161.03		V
						11/23/1998	1161.17		V
227A S13 E49 14A 2	UE-25p 1 PTH (Lwr Intrvl)	364938116252102	3655.5	5923.		12/14/1998	1161.09		S
						12/22/1998	1161.17		V
						10/15/1998	1185.35		S
227A S13 E50 18B 1	UE-25 WT 13	364945116235001	3387.5	1160.		10/29/1998	1185.13		V
						11/23/1998	1185.22		V
						12/22/1998	1185.25		V
227A S13 E50 19C 1	J -13 WW	364828116234001	3317.9	3488.		10/15/1998	994.89		S
						10/29/1998	995.20		V
						11/23/1998	995.34		V
227A S13 E51 31B 1	J -11 WW	364706116170601	3442.8	1327.		12/14/1998	994.99		S
						12/22/1998	995.38		V
						10/20/1998	928.30		S
227A S14 E50 06A 2	J -12 WW	364554116232401	3128.4	1139.	V	10/29/1998	927.96		V
						11/23/1998	928.11		V
						12/17/1998	928.22		S
227A S14 E50 06D 1	JF- 3 Well	364528116232201	3098.3	1138.	V	12/22/1998	928.04		V
						10/07/1998	1040.47		S
						10/29/1998	1039.91		V
229 S12 E48 07ADD 1	GEXA Well 3	365445116383901	4080.9	700.	S	11/23/1998	1040.11		V
						12/16/1998	1040.61		S
						12/22/1998	1040.13		V
229 S13 E48 27C 1	USW VH-1	364732116330701	3161.1	2501.	V	10/29/1998	740.06		V
						11/23/1998	740.22		V
						12/22/1998	740.39		V
229 S14 E48 36DDD 1	Cind-R-Lite Well	364105116302601	2725.6	460.	S	10/29/1998	710.07		V
						11/23/1998	710.19		V
						12/22/1998	710.35		V
230 025N004E21M001S	S-1 Well	361724116324201	2703.2	2000.	F	10/27/1998	170.94		S
						11/24/1998	171.02		S
						12/16/1998	171.27		S
230 025N005E14M001S	Death Valley Jct Well	361817116244701	2041.8	225.	F	10/25/1998	603.75		V
						11/24/1998	603.71		V
						12/16/1998	603.77		V
230 026N005E05E001S	NA-9 Well	362525116274301	2190.9	1090.	F	10/28/1998	331.38		S
						11/18/1998	331.42		S
						12/16/1998	331.52		S
230 025N004E21M001S	S-1 Well	361724116324201	2703.2	2000.	F	10/08/1998	373.10		S
						11/17/1998	373.39		S
						12/16/1998	373.95		S
230 025N005E14M001S	Death Valley Jct Well	361817116244701	2041.8	225.	F	10/07/1998	3.59		S
						11/17/1998	3.25		S
						12/16/1998	3.01		S
230 026N005E05E001S	NA-9 Well	362525116274301	2190.9	1090.	F	10/08/1998	12.18		S
						11/19/1998	12.20		S
						12/17/1998	12.26		S

GROUND-WATER LEVELS
YUCCA MOUNTAIN GROUND-WATER MONITORING PROJECT--Continued

Local Well Number	Station Name	Site Identification	Elevation (Feet Above Sea Level)	Well Depth (Feet)	Contri- buting Units	Water Level (Below Land Surface)			
						Date	(Feet)	Status	Method
230 S14 E47 32DA 1	USGS Well NA-6 (BGMW-10)	364141116351401	2627.9	960.	F	10/15/1998	269.49		S
						11/24/1998	269.58		S
						12/16/1998	269.61		S
230 S15 E49 24ABB 1	Airport Well	363830116241401	2638.8	750.	F	10/28/1998	325.11		V
						11/18/1998	325.11		V
						12/17/1998	325.13		V
230 S15 E50 18CCDB1	NDOT Well	363835116234001	2656.8	495.	F	10/28/1998	343.32		S
						11/18/1998	343.04		S
						12/17/1998	342.61		V
230 S16 E48 05CAB 1	Davidson Well	363521116352501	2395.3	240.	F	10/13/1998	132.35		S
						11/19/1998	132.42		S
						12/17/1998	132.19		S
230 S16 E49 18DCCA1	USBLM Well	363310116294001	2376.4	348.	F	10/27/1998	129.32		S
						11/19/1998	129.28		S
						12/17/1998	129.13		S
230 S16 E50 07CABB1	Cooks East Well	363428116234701	2477.8	269.	F	10/27/1998	119.64		S
						11/19/1998	119.72		S
						12/17/1998	119.58		S
230 S16 E51 27BAA 3	Tracer Well 3	363213116133800	2402.3	678.	C	10/30/1998	41.67		S
						11/24/1998	41.66		S
						12/18/1998	41.54		S
230 S17 E48 01AB3	Blackman Well	363009116302702	2305.0	210.	F	10/27/1998	70.82		S
						11/19/1998	70.39		S
						12/17/1998	69.89		S
230 S17 E49 15BBBB1	Gilgans North Well	362848116264201	2264.8	396.	F	10/27/1998	86.19		S
						11/19/1998	81.85		S
						12/17/1998	80.97		S
230 S17 E50 10CDD 1	Rogers Spring Well	362858116195301	2265.9	202.	F	10/27/1998	3.12		S
						11/19/1998	2.87		S
						12/17/1998	2.68		S
230 S17 E50 23BBCA1	Five Springs Well	362755116190401	2367.4	123.	C	10/27/1998	0.22	F	S
						11/19/1998	0.22	F	S
						12/17/1998	0.23	F	S
230 S17 E50 33CAAB1	Garners Well	362555116205301	2157.0	202.	F	10/14/1998	19.40		S
						11/19/1998	19.40		S
						12/17/1998	19.08		S
230 S17 E50 36DDC 1	Devils Hole Well	362529116171100	2404.1	200.	F	10/14/1998	48.15		S
						11/17/1998	48.10		S
						12/17/1998	48.15		S
230 S17 E52 08CDB 1	Cherry Patch Well	362929116085701	2394.3	215.	F	10/13/1998	35.27		S
						11/25/1998	35.22		S
						12/18/1998	44.05	P	S
230 S18 E51 07BBBB1	Point of Rocks North Well	362432116165701	2318.8	500.	F	10/27/1998	21.48		S
						11/19/1998	21.44		S
						12/17/1998	21.48		S
230 S18 E51 07BDB 1	Point of Rocks South Well	362417116163600	2333.5	586.	C	10/27/1998	7.67		S
						11/19/1998	7.59		S
						12/17/1998	7.49		S
230 S18 E51 34CBD 1	GS-01 Well	362014116133901	2430.3	1580.	F	10/07/1998	80.92		S
						11/19/1998	80.97		S
						12/17/1998	80.92		S
230 S19 E50 01BBD 1	GS-03 Well	361954116181201	2351.3	2000.	F	10/07/1998	218.34		S
						11/18/1998	218.42		S
						12/16/1998	218.58		S
243 026N003E21L001S	Travertine Point 1 Well	362230116392901	2728.4	650.	C	10/27/1998	601.10		V
						11/17/1998	601.01		V
						12/16/1998	601.26		V

Other well data for valley 230 may be found in Nevada Test Site and Adjacent Areas Monitoring Project tables.

GROUND-WATER DISCHARGE

YUCCA MOUNTAIN GROUND-WATER MONITORING PROJECT

Periodic discharge measurements are made throughout the Yucca Mountain area to support environmental and regulatory aspects of the Yucca Mountain Project. The following data have been reviewed according to quality-assurance requirements specific to the Yucca Mountain Project. The following sites are shown in figure 20.

MEASUREMENT METHOD: C, current meter; V, volumetric.

ABBREVIATIONS: GPM, gallons per minute.

ELEVATION: land-surface datum.

Spring Number	Spring Name	Site Identification	Owner	Elevation (Feet above sea level)	Measurements		
					Date	Discharge (GPM)	Method
230 S17 E50 09AD 1	Fairbanks Spring	362924116203001	U.S. Fish and Wildlife Service	2250	11/18/1998	1700	C
230 S17 E50 23BBCA1	Five Springs Well	362755116190401	U.S. Fish and Wildlife Service	2345	10/27/1998	42	V
					11/19/1998	41	V
					12/17/1998	40	V
230 S18 E50 03ADBA1	Crystal Pool	362502116192301	U.S. Fish and Wildlife Service	2195	11/18/1998	2900	C
230 S18 E51 19ACB 1	Big Spring	362230116162001	U.S. Fish and Wildlife Service	2240	11/18/1998	1000	C
026N002E13FS01S	Navel Spring	362252116425301	U.S. Borax	2080	11/17/1998	.90	V
027N001E23B015	Texas Spring	362728116501101	National Park Service	400	11/17/1998	200	C

QUALITY OF GROUND WATER

AMARGOSA DESERT

Water-quality measurements in the following table were made to establish background information for research being done at this site. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following site is shown in figure 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999										
STATION NUMBER		LOCAL WELL NUMBER			DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
364556116413501		230	S13 E47	35BDBA1	05-18-99	1129	2777	404	200	48
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)
	05-18-99	18	10	5	160	81	3.0	68	200	4.6
DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IODIDE, DIS- SOLVED (MG/L AS I) (71865)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
	05-18-99	30	<1	580	.36	<1	<1	3.1	.004	<10
DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM DIS- SOLVED (UG/L AS U) (22703)	
	05-18-99	250	5.4	3.3	1.1	<1	370	<10	42	6.7

In August and September 1999, water data from this station were collected at the request of, and in cooperation with, the National Park Service and U.S. Fish and Wildlife Service as part of an investigation of the variation in the population of Devils Hole pupfish, *Cyprinodon diabolis*. Water samples were collected about 5 ft below the water surface in the deep pool, and mid-depth (about 0.5-ft below the water surface) over the submerged rock shelf where the pupfish typically feed and breed. Composited samples of bottom sediment were collected about 10 feet below the water surface beneath the submerged rock shelf. Methylmercury concentration in water and in bottom sediment were determined by the USGS mercury research laboratory, Middleton, WI, using the methods described by Olson and other (1997) and Olson and DeWild (1999). The follow site is shown in figure 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999													
		DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET) (81903)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	
DATE	TIME	SAMPLE LOCATION											
AUG													
18	1400	DEEP POOL	5	695	45	2.9	7.3	709	37.0	33.0	193	45	--
18	1401	PUFFISH SHELF	0.5	695	47	3.0	7.6	690	--	33.5	--	--	--
18	1403	BENEATH SHELF	10	--	--	--	--	--	--	--	--	--	17
SEP													
23	1135	PUFFISH SHELF	0.5	--	--	--	--	--	--	32.0	--	--	--
		MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM BOT MAT <63U WS FIELD PERCENT (34900)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	POTAS- SIUM BOT MAT <63U WS FIELD PERCENT (34940)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
AUG													
18...	19	--	7.8	--	64	2	--	251	306	20	1.5	22	
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	2	--	1	--	--	0.8	--	--	--	--	--	--
SEP													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	CARBON, INORG, SED, BM WS, <63U DW, REC CENT) (49269)	CARBON, ORG + INORG, SED, BM WS, <63U DW, REC PERCENT (49267)	SOLIDS, DIS- SOLVED (TONS AC-FT) (70303)
AUG													
18...	74	--	<.002	E.078	.141	<.001	<.004	.002	--	--	--	0.57	
18...	--	--	.004	<.1	.114	.001	.004	.001	--	--	--	--	--
18...	--	0.1	--	--	--	--	--	--	0.1	5	7	--	--
SEP													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, TUR- BID- ITY (MG/L) (70301)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (00076)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31633)	STREP- TOCOCOCI FECAL, KF AGAR (COLS. PER 100 ML) (31625)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ALUM- INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ANTI- MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	
AUG													
18...	418	406	.25	--	--	--	7	--	<1	--	13	--	--
18...	--	--	--	--	--	--	8	--	<1	--	14	--	--
18...	--	--	--	--	--	--	--	4	--	2	--	20	--
SEP													
23...	--	--	--	K5	46	K13	--	--	--	--	--	--	--
		BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BERYL- LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM BOT MAT <63U WS FIELD (UG/G) (34840)
AUG													
18...	81	--	<1	--	--	360	.13	<1	--	--	<1	--	--
18...	82	--	<1	--	--	--	--	<1	--	--	<1	--	--
18...	--	580	--	2	<1	--	--	--	.50	80	--	30	--
SEP													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

QUALITY OF SURFACE WATER

362532116172700 DEVILS HOLE RECONNAISSANCE PROJECT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COBALT, BOT MAT <63U WS (UG/G) (34845)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, BOT MAT <63U WS (UG/G) (34850)	CYANIDE DIS-SOLVED (MG/L AS CN) (00723)	EURO-PIUM BOT MAT <63U WS (UG/G) (34855)	GALLIUM BOT MAT <63U WS (UG/G) (34860)	GOLD BOT MAT <63U WS (UG/G) (34870)	HOLMIUM BOT MAT <63U WS (UG/G) (34875)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON BOT MAT <63U WS PERCENT (34880)	LANTHANUM BOT MAT <63U WS (UG/G) (34885)
AUG 18... 18... 18... SEP 23...	<1 <1 -- --	-- -- 6 --	<1 3 -- --	-- -- 30 --	<.1 -- -- --	-- -- <1 --	-- -- 9 --	-- -- <1 --	-- -- <1 --	<10 -- -- --	-- -- 2 --	-- -- 40 --
	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD BOT MAT <63U WS (UG/G) (34890)	LITHIUM BOT MAT <63U WS (UG/G) (34895)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGANESE BOT MAT <63U WS (UG/G) (34905)	MERCURY METHYL, WATER, UNFLTRD REC. (NG/L) (50284)	MERCURY METHYL, BOT MAT <63U WS (NG/G) (NG/G)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MERCURY BOT MAT <63U WS (UG/G) (34910)	MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060)	MOLYBDENUM BOT MAT <63U WS (UG/G) (34915)	NEODYMIUM BOT MAT <63U WS (UG/G) (34920)
AUG 18... 18... 18... SEP 23...	<1 <1 -- --	-- -- 50 --	-- -- 30 --	<1 -- -- --	-- -- 490 --	<.09 -- -- --	0.16 -- -- --	<.1 -- -- --	-- -- .60 --	7 7 -- --	-- -- .80 --	-- -- 28 --
	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL BOT MAT <63U WS (UG/G) (34925)	NIObIUM BOT MAT <63U WS (UG/G) (34930)	SCANDIUM BOT MAT <63U WS (UG/G) (34945)	SELENIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELENIUM BOT MAT <63U WS (UG/G) (34950)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER BOT MAT <63U WS (UG/G) (34955)	STRONTIUM, DIS-SOLVED (UG/L AS SR) (01080)	STRONTIUM BOT MAT <63U WS (UG/G) (34965)	TANTALUM BOT MAT <63U WS (UG/G) (34975)	THALLIUM BED MAT D SIEVE <63 U TOTAL (UG/L) (04064)
AUG 18... 18... 18... SEP 23...	1.2 1.5 -- --	-- -- 20 --	-- -- 8 --	-- -- 6 --	<1 -- -- --	-- -- 1 --	<1 -- -- --	-- -- .40 --	880 -- -- --	-- -- 600 --	-- -- <1 --	-- -- <1 --
	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITANIUM, SED, BM WS,<63U DRY WGT REC (UG/G) PERCENT (49274)	VANADIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTERBIUM BOT MAT <63U WS FIELD (UG/G) (35015)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC BOT MAT <63U WS FIELD (UG/L) (35020)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	1,1,1-TRICHLOROETHANE TOTAL (UG/L) (34506)	1,1,2-TRICHLOROETHANE TOTAL (UG/L) (34511)	1,1-DICHLOROETHANE TOTAL (UG/L) (34496)
AUG 18... 18... 18... SEP 23...	-- -- 2 --	-- -- .30 --	-- -- 40 --	-- -- 2 --	-- -- 20 --	<1 -- -- --	-- -- 80 --	.6 -- -- --	-- -- 2 --	<3 -- -- --	<3 -- -- --	<3 -- -- --
	1,1-DICHLOROETHYLENE TOTAL (UG/L) (34501)	1,1-DICHLOROPROPENE, WAT, WH TOTAL (UG/L) (77168)	123-TRICHLOROPROPANE WATER WHOLE TOTAL (UG/L) (77443)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	1,2-DIBROMOETHANE WATER WHOLE TOTAL (UG/L) (77651)	1,2-DICHLOROETHANE TOTAL (UG/L) (32103)	1,2-DICHLOROPROPANE TOTAL (UG/L) (34541)	1,2-DIPHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)	TRANS-1,2-DICHLOROETHENE TOTAL (UG/L) (34546)	2,4-DP TOTAL (UG/L) (82183)	2,2-DICHLOROPROPANE WAT, WH TOTAL (UG/L) (77170)	2,4,5-T TOTAL (UG/L) (39740)
AUG 18... 18... 18... SEP 23...	<3 -- -- --	<3 -- -- --	<3 -- -- --	<10 -- -- --	<3 -- -- --	<3 -- -- --	<3 -- -- --	<5 -- -- --	<3 -- -- --	<.01 -- -- --	<3 -- -- --	<.01 -- -- --

DATE	BUTYL- ATE WHLREC (UG/L) (30236)	CARBON TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	CARBOX- IN WATER WHOLE RECOV- ERABLE (UG/L) (30245)	CHLOR- DANE, TECH- NICAL TOTAL (UG/L) (39350)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- DI- METHANE TOTAL (UG/L) (32105)	CHLORO- ETHANE TOTAL (UG/L) (34311)	CHLORO- FORM TOTAL (UG/L) (32106)	CHLORO- NEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322)	CHRY- SENE TOTAL (UG/L) (34320)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (UG/L) (77093)	CIS 1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34704)
	CIS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320)	CIS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316)	CIS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49349)	CYAN- AZINE TOTAL (UG/L) (81757)	CYCLO- ATE HEXA- WHOLE RECOV- ERABLE (UG/L) (30254)	CYCLOPE NTADIEN CHLORO- RECOVER (UG/L) (34386)	DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324)	DEETHYL ATRA- ZINE, WATER, WHOLE, TOTAL (UG/L) (75981)	DE-ISO PROPYL ATRAZIN WATER, WHOLE, TOTAL (UG/L) (75980)	DIBROMO CHLORO- PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	DI- BROMO- METHANE WATER WHOLE RECOVER (UG/L) (30217)	BROMO- DI- CHLORO- METHANE TOTAL (UG/L) (32101)
	CIS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/L) (34668)	DIEL- DRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331)	DI- ELDRIN SED, BM WS, <2MM DW, REC (UG/L) (39380)	DIETHYL PHTHAL- ATE TOTAL (UG/L) (34336)	DI- METHYL PHTHAL- ATE TOTAL (UG/L) (34341)	DI-N- BUTYL PHTHAL- ATE TOTAL (UG/L) (39110)	DI-N- OCTYL PHTHAL- ATE TOTAL (UG/L) (34596)	DIPHEN- AMID WATER WHOLE RECOV- ERABLE (UG/L) (30255)	ENDO- SULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332)	ENDO- SULFAN I SED, BM WS, <2MM DW, REC (UG/L) (39388)	ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)
AUG 18... 18... 18... SEP 23...	<.1 -- -- --	<3 -- -- --	<.2 -- -- --	<.1 -- -- --	<3 -- -- --	<3 -- -- --	<3 -- -- --	<3 -- -- --	-- -- -- --	<10 -- -- --	<3 -- -- --	<3 -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	<3 -- -- --	-- -- -- --	<.009 -- -- --	<5 -- -- --	<5 -- -- --	<5 -- -- --	<10 -- -- --	<.1 -- -- --	-- -- -- --	<.015 -- -- --	-- -- -- --	<.014 -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --
AUG 18... 18... 18... SEP 23...	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --								

QUALITY OF SURFACE WATER
DEVILS HOLE RECONNAISSANCE PROJECT

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

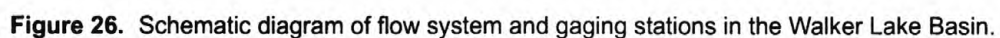
DATE	TRI- FLURA- LIN TOTAL RECOVER (UG/L) (39030)	VER- NOLATE WATER WHOLE RECOV. (UG/L) (30324)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	ALPHA RADIO. WATER DISS TH-230 (PCI/L) (04126)	GROSS BETA, DIS- SOLVED AS (PCI/L) CS-137 (03515)	POLO- NIUM 210 DIS- SOLVED (PCI/L) (19503)	RADIUM 226, DIS- SOLVED, RADON (PCI/L) (09503)	RADIUM 228 DIS- SOLVED, RADON (PCI/L) (09511)	RA-224 WATER FLTRD (PCI/L) (50833)
AUG										
18...	<.1	<.1	<1	<3	6.5	16	<1	1.1	.67	<1
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
SEP										
23...	--	--	--	--	--	--	--	--	--	--

DATE	RADON 222 TOTAL (PCI/L) (82303)	THORIUM 230 DIS- SOLVED (PCI/L) (26503)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TH-232 WATER, DISS, (PCI/L) (75976)	TRITIUM TOTAL (PCI/L) (07000)	URANIUM NATURAL DIS- SOLVED AS U (UG/L) (22703)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	URANIUM -234 WATER DISSOLV (PCI/L) (22610)	URANIUM -235 WATER, DISS (PCI/L) (22620)
AUG									
18...	74	<1	--	<1	<.3	3.0	--	2.6	<.1
18...	--	--	--	--	--	3.0	--	--	--
18...	--	--	9.6	--	--	--	3.1	--	--
SEP									
23...	--	--	--	--	--	--	--	--	--

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

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

K: Non-Ideal Colony Count



WALKER LAKE BASIN
10288500 WALKER LAKE NEAR HAWTHORNE, NV

LOCATION.--Lat 38°40'36", long 118°46'16", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 6,955,000 acre-ft, March 13, 1928, elevation, 4,051.8 ft, U.S. Bureau of Indian Affairs; minimum observed, 1,973,000 acre-ft, May 8, 1995, elevation, 3,941.1 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 4,078.0 ft, adjustment of 1912, was observed September 27, 1908, by U.S. Geological Survey (contents, 8,622,000 acre-ft, table now in use). An elevation of about 4,083 ft for 1882 is estimated by Rush (U.S. Geological Survey Hydrologic Investigations Atlas HA-415, 1970), on the basis of bathymetric data.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,463,000 acre-ft, June 30, elevation 3,955.5 ft; minimum observed, 2,407,000 acre-ft, November 2, elevation 3,953.9 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30.....	3,954.2	2,417,000	--
October 31.....	3,953.9	2,407,000	-10,000
November 30.....	3,954.0	2,410,000	+3,000
December 31.....	3,954.1	2,410,000	0
CALENDAR YEAR 1998.....	--	--	+111,000
January 31.....	3,954.1	2,410,000	0
February 28.....	3,954.4	2,424,000	+14,000
March 31.....	3,954.4	2,424,000	0
April 30.....	3,954.6	2,431,000	+8,000
May 31.....	3,954.8	2,438,000	+7,000
June 30.....	3,955.5	2,463,000	+25,000
July 31.....	3,955.1	2,449,000	-14,000
August 31.....	3,954.6	2,431,000	-18,000
September 30.....	3,954.2	2,417,000	-14,000
WATER YEAR 1999.....	--	--	+1,000

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. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,990 acre-ft, July 7, 1983, elevation, 7,209.85 ft; minimum observed, 30 acre-ft, November 1, 1990, elevation, 7,200.11 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--No usable contents observed October 17, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,710 acre-ft, July 1, elevation, 7,208.99 ft; minimum observed, 1,720 acre-ft, November 2, elevation, 7,205.89 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30.....	7207.70	2,290	--
October 31.....	7206.00	1,750	-540
November 30.....	7206.89	2,030	+280
December 31.....	7207.21	2,140	+110
CALENDAR YEAR 1998.....	--	--	+40
January 31.....	7207.25	2,150	+10
February 28.....	7207.35	2,180	+30
March 31.....	7207.27	2,160	-20
April 30.....	7207.64	2,270	+110
May 31.....	7208.92	2,680	+410
June 30.....	7208.99	2,710	+30
July 31.....	7208.03	2,400	-310
August 31.....	7207.67	2,280	-120
September 30.....	7207.47	2,220	-60
WATER YEAR 1999.....	--	--	-70

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

WALKER LAKE BASIN

10290400 LOWER TWIN LAKE NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'05", long 119°19'33", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,560 acre-ft, June 19, 1983, elevation, 7,203.58 ft; no contents, November 17, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 5,130 acre-ft, June 1, elevation, 7,202.62 ft; minimum observed, 2,850 acre-ft, September 30, elevation 7,197.12 ft.

MONTHEND ELEVATION AND CONTENTS, IN FEET ABOVE SEA LEVEL, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30.....	7200.58	4,250	--
October 31.....	7200.53	4,230	-20
November 30.....	7199.95	3,990	-240
December 31.....	7200.38	4,170	+180
CALENDAR YEAR 1998.....	--	--	-80
January 31.....	7200.51	4,220	+50
February 28.....	7200.53	4,230	+10
March 31.....	7200.52	4,230	0
April 30.....	7200.86	4,370	+140
May 31.....	7202.55	5,100	+730
June 30.....	7202.32	5,000	-100
July 31.....	7201.17	4,500	-500
August 31.....	7199.18	3,670	-830
September 30.....	7197.12	2,850	-820
WATER YEAR 1999.....	--	--	-1400

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

WALKER LAKE BASIN

10290500 ROBINSON CREEK AT TWIN LAKES OUTLET, NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°10'20", long 119°19'25", in SE 1/4 SE 1/4 sec.28, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, on left bank, 0.2 mi downstream from Lower Twin Lake, and 8 mi southwest of Bridgeport.

DRAINAGE AREA.--39.1 mi².

PERIOD OF RECORD.--October 1953 to September 1975, May 1992 to September 1994 (irrigation season only), October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 7,050 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Upper and Lower Twin Lakes. See schematic diagram of Walker Lake Basin.

REVISIONS.--WSP 1927: Drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft³/s, January 3, 1997, gage height, 5.44 ft; no flow many days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 301 ft³/s, June 19, 20 gage height, 3.52 ft; minimum daily, 11.0 ft³/s, December 4, 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	46	13	21	25	23	22	50	275	218	88	71
2	56	44	12	21	25	24	22	51	266	225	87	71
3	53	43	12	21	24	26	23	50	250	231	85	70
4	49	42	11	21	24	23	23	48	225	230	84	69
5	47	40	12	21	24	22	24	47	198	219	82	69
6	46	38	11	21	18	21	25	47	177	207	80	68
7	45	38	12	21	30	20	28	51	161	200	77	67
8	45	36	13	21	35	21	28	58	151	196	75	66
9	43	34	15	21	40	22	27	67	145	194	72	66
10	41	34	16	21	41	22	26	74	142	191	69	65
11	39	36	18	21	39	22	26	81	143	187	68	64
12	39	36	19	20	36	21	25	89	153	185	71	64
13	39	36	20	20	34	21	24	102	171	182	74	61
14	40	36	22	20	32	21	24	115	198	180	71	51
15	43	35	22	20	31	20	24	120	230	179	75	44
16	47	35	23	21	30	20	24	117	260	174	74	42
17	53	34	24	21	31	20	24	113	282	166	72	41
18	44	33	25	22	30	20	25	112	293	153	75	39
19	38	32	25	27	28	20	26	114	299	142	75	39
20	38	31	23	33	27	21	28	121	299	132	75	39
21	38	32	22	31	29	21	32	128	293	123	77	39
22	37	26	21	30	28	21	36	140	282	115	77	40
23	36	26	21	29	27	21	41	157	277	108	77	39
24	34	22	22	30	26	21	44	179	280	103	76	39
25	31	14	22	31	28	21	45	196	290	98	75	39
26	35	14	22	30	25	21	46	212	282	96	75	39
27	37	14	22	29	25	21	49	228	258	93	75	39
28	38	14	21	28	25	22	49	242	237	91	75	39
29	41	14	22	27	---	22	49	260	224	90	74	39
30	42	13	22	26	---	24	50	284	219	87	74	39
31	45	---	23	26	---	23	---	286	---	88	72	---
TOTAL	1315	928	588	752	817	668	939	3939	6960	4883	2356	1557
MEAN	42.4	30.9	19.0	24.3	29.2	21.5	31.3	127	232	158	76.0	51.9
MAX	56	46	25	33	41	26	50	286	299	231	88	71
MIN	31	13	11	20	18	20	22	47	142	87	68	39
AC-FT	2610	1840	1170	1490	1620	1320	1860	7810	13810	9690	4670	3090

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)

	MEAN	21.8	9.43	7.86	17.0	16.7	17.4	46.4	107	193	167	98.7	52.2
MAX	42.4	30.9	36.1	166	63.4	44.8	79.4	187	349	400	199	89.0	
(WY)	1999	1999	1997	1997	1963	1997	1959	1997	1969	1995	1995	1974	
MIN	7.00	.67	.000	.000	.000	.000	22.3	59.1	68.2	62.0	35.1	15.9	
(WY)	1995	1958	1954	1954	1954	1955	1975	1955	1992	1992	1992	1992	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1954 - 1999

ANNUAL TOTAL	32389	25702	
ANNUAL MEAN	88.7	70.4	64.9
HIGHEST ANNUAL MEAN			100
LOWEST ANNUAL MEAN			33.8
HIGHEST DAILY MEAN	391	Jul 11	299 Jun 19
LOWEST DAILY MEAN	11	Dec 4	11 Dec 4
ANNUAL SEVEN-DAY MINIMUM	12	Dec 1	12 Dec 1
INSTANTANEOUS PEAK FLOW		301	Jun 19
INSTANTANEOUS PEAK STAGE		3.52	Jun 19
ANNUAL RUNOFF (AC-FT)	64240	50980	47050
10 PERCENT EXCEEDS	302	196	165
50 PERCENT EXCEEDS	41	39	32
90 PERCENT EXCEEDS	21	21	.49

WALKER LAKE BASIN

10291500 BUCKEYE CREEK NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°14'20", long 119°19'30", in NE 1/4 NE 1/4 sec.04, T.4 N., R.24 E., Mono County, Hydrologic Unit 16050301, in Toiyabe National Forest, on right bank at Buckeye Hot Springs, 0.6 mi downstream from Eagle Creek, and about 5.5 mi southwest of Bridgeport.

DRAINAGE AREA.--44.1 mi².

PERIOD OF RECORD.--November 1910 to September 1914 (fragmentary), October 1953 to September 1979, October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,900 ft above sea level, from topographic map. November 1910 to September 1914, non-recording gage at site 0.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station. See schematic diagram of Walker Lake Basin.

REVISIONS.--WSP 1927: Drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,750 ft³/s, January 2, 1997; gage height, 7.49 ft; minimum daily, 4.5 ft³/s, January 12, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1911, reached an observed stage of 4.8 ft, discharge not determined, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 29	0030	351	3.21	June 23	2345	*369	*3.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	30	29	21	e20	22	28	60	262	241	62	33
2	43	28	29	21	e20	22	27	64	242	244	59	32
3	40	29	29	e20	e20	25	26	58	187	229	57	31
4	39	28	22	e21	22	24	25	55	159	206	56	31
5	39	28	e22	21	21	23	25	63	143	185	57	30
6	38	26	e22	21	21	22	25	90	158	180	55	30
7	37	29	e23	21	34	21	24	120	175	187	51	29
8	35	28	e23	21	27	21	23	131	168	178	48	28
9	35	26	e23	e20	22	19	26	124	168	163	48	28
10	34	29	e24	21	26	28	24	119	179	160	51	29
11	34	29	e24	21	e20	22	23	141	206	168	51	28
12	34	27	e24	21	e20	22	23	186	228	155	46	28
13	33	29	26	20	e20	21	26	191	258	146	44	28
14	33	30	25	20	e20	22	31	150	283	146	43	27
15	33	30	25	21	e20	22	35	126	302	141	42	27
16	32	30	25	21	22	21	40	120	307	126	40	26
17	31	29	25	23	e20	23	49	135	303	112	39	26
18	32	26	25	24	22	26	59	167	316	103	39	32
19	31	26	24	25	21	27	71	172	305	96	40	31
20	31	27	24	19	22	25	75	183	296	91	38	29
21	31	28	e24	15	21	24	83	203	295	86	38	27
22	31	28	e23	22	e20	24	67	224	291	82	38	27
23	31	33	e23	23	20	25	56	259	308	78	36	27
24	32	30	e23	22	20	27	51	246	316	78	36	26
25	32	29	e23	e20	19	28	56	251	282	74	37	26
26	32	28	e23	e20	e19	33	71	265	246	71	44	25
27	32	27	e22	22	22	34	73	249	226	70	49	25
28	32	28	e22	e20	22	32	66	281	232	68	40	24
29	31	28	22	e20	---	32	58	290	237	67	37	24
30	31	32	22	e20	---	31	55	266	235	64	35	23
31	28	---	23	22	---	29	---	262	---	63	35	---
TOTAL	1054	855	743	649	603	777	1321	5251	7313	4058	1391	837
MEAN	34.0	28.5	24.0	20.9	21.5	25.1	44.0	169	244	131	44.9	27.9
MAX	47	33	29	25	34	34	83	290	316	244	62	33
MIN	28	26	22	15	19	19	23	55	143	63	35	23
AC-FT	2090	1700	1470	1290	1200	1540	2620	10420	14510	8050	2760	1660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1999, BY WATER YEAR (WY)

	MEAN	23.4	22.4	22.5	25.0	22.0	25.9	50.6	140	209	133	53.5	30.2
MAX	41.4	44.4	52.2	158	55.8	70.6	115	322	432	399	115	65.6	
(WY)	1957	1974	1965	1997	1997	1997	1997	1969	1911	1911	1967	1911	
MIN	7.43	11.6	10.2	10.2	10.2	11.7	22.3	32.2	43.4	18.8	9.76	7.55	
(WY)	1978	1962	1978	1960	1977	1977	1967	1977	1976	1977	1977	1977	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1911 - 1999
ANNUAL TOTAL	30853	24852	
ANNUAL MEAN	84.5	68.1	61.8
HIGHEST ANNUAL MEAN			114
LOWEST ANNUAL MEAN			19.5
HIGHEST DAILY MEAN	348	Jul 9	1050
LOWEST DAILY MEAN	17	Feb 7	4.5
ANNUAL SEVEN-DAY MINIMUM	18	Mar 4	5.5
INSTANTANEOUS PEAK FLOW		369	2750
INSTANTANEOUS PEAK STAGE		3.27	7.49
ANNUAL RUNOFF (AC-FT)	61200	49290	44750
10 PERCENT EXCEEDS	280	204	175
50 PERCENT EXCEEDS	35	31	29
90 PERCENT EXCEEDS	19	21	14

e Estimated

WALKER LAKE BASIN

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. Month end contents only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1949. WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,466.44 ft above 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. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 44,880 acre-ft, June 16, 1974, elevation 6,460.78 ft; no useable contents at times in water years 1929, 1930, 1960, 1977, 1988, and 1989.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,820 acre-ft, February 9, elevation, 6,460.12 ft; minimum 12,980 acre-feet, September 30, elevation, 6,446.26 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)					
6,425	334	6,440	6,240	6,455	29,160
6,430	1,130	6,445	11,380	6,460	42,460
6,435	2,920	6,450	18,780	6,461	45,490

CORRECTION--The monthend elevations and change in contents were incorrectly published in last years WRD-NV-98-1. Below are the correct figures

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
#	6449.54	6451.97	6454.27	6456.92	6458.71	6457.77	6454.89	6451.60	6457.98	6459.97	6457.07	6455.88
##	-790	+4530	+4960	+6430	+4820	-2580	-7240	-7110	+14910	+5660	-8070	-3020

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31720	36630	35380	35300	40300	40270	40270	35490	38620	42170	33700	21150
2	32050	36930	35300	35440	40390	40420	40120	35540	38870	42170	33220	20800
3	32260	37150	35200	35540	40500	40450	39920	35280	38930	42080	32710	20470
4	32540	37400	35040	35590	40590	40470	39860	35200	39100	41990	32180	20140
5	32760	37620	34930	35730	40680	40560	39740	35040	39210	41930	31620	19810
6	33300	37760	34750	35810	40740	40560	39690	34900	39180	41850	31090	19440
7	33500	37870	34560	35910	41930	40590	39740	34750	39150	41730	30630	19070
8	33750	37930	34510	36040	42490	40680	39720	34590	39100	41640	30200	18710
9	33960	37960	34450	36100	42490	40740	39690	34370	39100	41530	29790	18370
10	34080	38010	34400	36230	42260	40800	39720	34010	39150	41440	29590	18010
11	34220	38040	34320	36310	41930	40880	39740	33750	39230	41550	29350	17680
12	34380	38040	34320	36440	41640	40970	39770	33530	39180	41580	29070	17390
13	34430	37930	34220	36520	41440	41120	39740	33320	39100	41470	28770	17090
14	34480	37790	34350	36650	41030	41090	39600	32990	39180	41350	28420	16770
15	34510	37730	34400	36790	40820	41150	39480	32710	39350	41200	28170	16420
16	34560	37650	34430	36980	41000	41230	39320	32380	39800	41030	27830	16040
17	34590	37510	34450	37120	41000	41260	39010	32050	40180	40820	27410	15680
18	34640	37400	34510	37430	41000	41230	38760	31750	40650	40530	26910	15460
19	34690	37230	34510	37870	40770	41350	38480	31570	41180	40270	26490	15160
20	34770	37090	34380	38180	40620	41290	38210	31470	41610	39920	26090	14880
21	34900	36940	34320	38370	40270	41260	37730	31450	41820	39540	25630	14610
22	35060	36800	34300	38590	40150	41290	37290	31550	41820	39180	25190	14390
23	35220	36650	34240	38900	40120	41230	37010	31750	41880	38760	24680	14230
24	35360	36500	34300	39150	40150	41120	36680	32200	42110	38320	24370	14060
25	35510	36390	34400	39370	40120	41180	36420	32610	42110	37790	23990	13890
26	35650	36150	34510	39570	40210	41120	36150	33170	42080	37260	23620	13750
27	35830	35990	34640	39720	40180	40970	35830	33860	41960	36650	23330	13550
28	35990	35860	34770	39860	40450	40820	35620	34770	41990	36020	22910	13360
29	36070	35700	34910	40010	---	40530	35460	35830	41990	35360	22480	13170
30	36260	35570	35120	40090	---	40500	35460	36760	42110	34830	21970	13010
31	36360	---	35200	40180	---	40330	---	37790	---	34270	21560	---
MAX	36360	38040	35380	40180	42490	41350	40270	37790	42110	42170	33700	21150
MIN	31720	35570	34220	35300	40120	40270	35460	31450	38620	34270	21560	13010
#	6457.85	6457.55	6457.41	6459.22	6459.31	6459.27	6457.51	6458.37	6459.88	6457.06	6451.48	6446.28
##	+5080	-790	-370	+4980	+270	-120	-4870	+2330	+4320	-7840	-12710	-8550

CAL YR 1998 MAX 42820 MIN 18730 ## +7720

WTR YR 1999 MAX 42490 MIN 13010 ## -18270

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°xx'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 good. Diversions for irrigation of meadow pasturelands near Bridgeport. Flow regulated by Bridgeport Reservoir (station 10292500). See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft³/s, January 4, 1997, gage height, 6.74 ft; minimum daily, 0.20 ft³/s, November 2, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 738 ft³/s, June 24, 25, gage height, 5.03 ft; minimum daily, 20 ft³/s, November 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	36	211	51	72	130	140	130	272	345	348	275
2	39	21	186	51	77	117	140	130	410	416	336	247
3	39	20	172	51	77	109	139	126	425	441	320	223
4	38	22	172	51	77	109	139	129	359	439	330	216
5	38	28	172	51	84	103	139	155	360	405	342	220
6	38	62	172	52	88	99	135	172	359	387	340	231
7	38	84	157	52	99	100	128	181	359	376	318	229
8	33	91	134	52	179	100	119	206	328	340	289	228
9	35	105	134	52	282	100	107	225	284	312	279	227
10	62	128	134	52	309	100	107	239	263	312	255	226
11	80	153	134	52	309	99	107	259	296	312	227	216
12	80	178	134	52	308	99	107	259	438	313	218	203
13	93	204	134	53	307	99	121	267	504	313	218	203
14	112	212	113	53	307	99	139	294	556	314	218	216
15	112	213	101	53	258	99	152	313	520	313	218	235
16	112	212	101	53	200	96	170	312	427	314	231	235
17	112	213	101	53	183	102	226	312	428	314	261	234
18	112	212	101	53	215	117	265	312	429	314	274	233
19	107	212	101	53	265	126	265	297	431	314	263	233
20	94	212	101	54	283	125	278	278	432	315	249	232
21	73	212	101	54	283	125	297	278	619	314	263	223
22	48	212	101	54	230	125	311	278	633	303	283	202
23	61	212	86	54	185	125	318	272	586	289	267	181
24	80	212	77	54	146	125	297	246	679	314	237	168
25	80	212	61	54	130	125	251	246	727	349	236	168
26	80	211	51	54	130	133	240	247	632	364	269	168
27	80	212	51	61	130	150	226	226	585	386	289	168
28	80	211	51	65	130	172	213	176	460	394	289	168
29	72	211	51	65	---	172	180	149	392	384	288	168
30	60	211	51	65	---	154	149	174	352	349	287	166
31	57	---	51	65	---	133	---	223	---	348	286	---
TOTAL	2184	4734	3497	1689	5343	3667	5605	7111	13545	10703	8528	6342
MEAN	70.5	158	113	54.5	191	118	187	229	452	345	275	211
MAX	112	213	211	65	309	172	318	313	727	441	348	275
MIN	33	20	51	51	72	96	107	126	263	289	218	166
AC-FT	4330	9390	6940	3350	10600	7270	11120	14100	26870	21230	16920	12580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1999, BY WATER YEAR (WY)

	MEAN	61.1	29.9	38.6	46.7	52.5	91.1	178	260	315	305	242	156
MAX	301	325	398	804	345	417	721	880	1001	797	638	406	
(WY)	1984	1983	1984	1997	1997	1983	1952	1938	1938	1967	1983	1983	
MIN	7.35	1.10	2.50	.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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1922 - 1999

	ANNUAL TOTAL	101462	72948	
ANNUAL MEAN	278	200	148	
HIGHEST ANNUAL MEAN			443	1983
LOWEST ANNUAL MEAN			37.5	1931
HIGHEST DAILY MEAN	852	Jul 23	727	Jun 25
LOWEST DAILY MEAN	20	Nov 3	20	Nov 3
ANNUAL SEVEN-DAY MINIMUM	27	Jan 31	35	Oct 30
INSTANTANEOUS PEAK FLOW			738	Jun 24
INSTANTANEOUS PEAK STAGE			5.03	Jun 24
ANNUAL RUNOFF (AC-FT)	201200	144700	107400	
10 PERCENT EXCEEDS	557	349	349	
50 PERCENT EXCEEDS	219	181	96	
90 PERCENT EXCEEDS	33	53	7.0	

WALKER LAKE BASIN

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, 1979 to 1994).

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 good except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500). See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft³/s, January 4, 1997, gage height, 9.61 ft; minimum daily, 2.3 ft³/s, March 12, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 671 ft³/s, June 26, gage height, 6.41 ft; minimum daily, 64 ft³/s, November 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	93	233	90	84	150	139	178	201	306	294	250
2	109	87	233	91	85	146	138	157	244	304	288	247
3	95	73	215	e90	91	139	141	154	372	348	276	226
4	89	68	203	e90	93	132	140	145	369	366	261	208
5	84	65	197	90	94	130	139	137	354	377	270	208
6	81	64	198	e87	95	125	141	148	345	345	279	205
7	78	78	199	85	100	120	147	165	338	329	288	208
8	76	99	190	e80	110	117	141	172	339	316	271	207
9	75	111	172	78	161	118	133	191	308	281	250	201
10	71	118	168	79	246	117	120	201	268	262	246	206
11	76	137	168	82	280	117	120	211	253	258	238	207
12	88	158	167	76	286	115	121	231	279	259	212	201
13	90	180	168	75	293	113	120	232	417	253	195	190
14	92	203	169	73	295	113	123	246	480	253	191	179
15	105	215	156	71	296	111	136	264	530	253	194	186
16	112	219	142	72	258	112	145	281	478	254	193	190
17	117	225	141	71	216	109	159	281	424	255	198	181
18	121	227	141	70	200	108	204	279	427	255	218	189
19	121	226	139	71	219	117	233	279	423	261	231	204
20	120	227	139	73	260	129	236	269	415	264	229	198
21	110	231	e136	72	280	132	246	263	414	264	219	186
22	99	231	e133	69	281	130	269	256	588	261	232	181
23	82	229	e130	69	241	123	282	254	564	254	246	172
24	78	229	e127	71	210	121	293	247	545	242	228	159
25	94	231	121	71	180	121	275	224	633	262	209	152
26	97	231	127	68	158	121	248	231	651	285	201	156
27	93	232	113	67	154	127	238	237	576	293	227	154
28	91	233	105	68	153	e135	227	220	541	304	239	149
29	98	234	109	75	---	e145	215	188	394	327	238	148
30	104	232	105	86	---	e150	203	167	349	313	240	149
31	96	---	94	85	---	155	---	170	---	288	240	---
TOTAL	2976	5186	4838	2395	5419	3898	5472	6678	12519	8892	7341	5697
MEAN	96.0	173	156	77.3	194	126	182	215	417	287	237	190
MAX	134	234	233	91	296	155	293	281	651	377	294	250
MIN	71	64	94	67	84	108	120	137	201	242	191	148
AC-FT	5900	10290	9600	4750	10750	7730	10850	13250	24830	17640	14560	11300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1999, BY WATER YEAR (WY)

	MEAN	72.2	45.5	55.7	75.0	83.0	96.8	186	268	328	293	227	160
MAX	173	173	178	813	383	363	755	905	1420	885	708	446	
(WY)	1957	1999	1951	1997	1997	1969	1969	1969	1986	1995	1983	1983	
MIN	22.0	18.3	15.4	13.9	15.9	8.78	15.5	30.5	58.1	32.7	23.1	13.3	
(WY)	1978	1978	1962	1962	1950	1948	1961	1991	1990	1992	1992	1977	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1948 - 1999
ANNUAL TOTAL	107690	71311	
ANNUAL MEAN	295	195	159
HIGHEST ANNUAL MEAN			401
LOWEST ANNUAL MEAN			38.7
HIGHEST DAILY MEAN	812	Apr 1	2580
LOWEST DAILY MEAN	49	Jan 7	2.3
ANNUAL SEVEN-DAY MINIMUM	54	Jan 5	3.6
INSTANTANEOUS PEAK FLOW			2610
INSTANTANEOUS PEAK STAGE		6.41	9.61
ANNUAL RUNOFF (AC-FT)	213600	141400	115300
10 PERCENT EXCEEDS	576	299	395
50 PERCENT EXCEEDS	233	188	114
90 PERCENT EXCEEDS	63	84	25

e Estimated

WALKER LAKE BASIN

10295500 LITTLE WALKER RIVER NEAR BRIDGEPORT, CA

LOCATION.--Lat 38°×21'30", long 119°26'30", in NW 1/4 NW 1/4 sec.22, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on right bank, 0.8 mi North of Sonora Junction, 1.5 mi upstream from mouth, and 14 mi northwest of Bridgeport.

DRAINAGE AREA.--63.1 mi².

PERIOD OF RECORD.--April to August 1910, October 1944 to September 1986, October 1995 to current year. Prior to October 1958, published as East Fork Walker River near Bridgeport.

REVISED RECORDS.--WDR 82-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,790 ft above sea level, from topographic map. April to August 1910, nonrecording gage at site 1 mi upstream at different datum. Prior to January 2, 1997 at same site, at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions above station. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft³/s, January 2, 1997, gage height, 5.70 ft; minimum daily, 2.6 ft³/s, August 16, 1977.

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)
May 28	2200	*341	*2.82	June 14	2200	308	2.72

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	25	25	e20	e19	30	28	64	248	165	43	25
2	36	23	26	e20	e20	31	27	67	231	178	39	24
3	34	24	24	e19	21	39	25	61	190	164	40	24
4	33	23	21	e19	20	34	27	56	165	147	42	23
5	33	22	e21	e19	20	29	24	65	147	148	44	23
6	33	21	e21	e19	19	27	24	88	143	138	40	22
7	32	24	e21	19	41	25	24	108	141	136	36	21
8	32	25	e21	20	29	24	21	116	134	134	36	21
9	31	22	21	24	22	21	25	102	130	121	35	22
10	30	23	e21	25	e22	27	27	104	134	116	41	23
11	30	23	21	20	e22	24	27	121	159	120	40	22
12	29	23	21	19	e23	25	28	146	187	116	39	22
13	29	25	20	19	e23	25	31	141	212	112	33	21
14	29	23	20	20	e23	27	33	132	241	107	31	21
15	29	22	22	21	e24	26	35	119	250	99	31	20
16	28	21	21	21	24	27	40	116	255	84	30	20
17	26	21	19	22	e24	28	49	129	257	80	29	20
18	26	22	19	22	e24	31	57	142	261	75	28	26
19	26	20	17	31	e23	31	63	146	249	71	29	26
20	26	21	e16	18	e23	27	70	155	233	63	27	23
21	26	21	e16	17	23	25	72	162	229	61	28	22
22	26	21	e16	22	e23	26	64	181	225	55	28	20
23	26	24	e15	21	23	27	55	215	236	55	24	20
24	28	21	e16	22	23	30	52	228	236	53	22	20
25	27	22	e16	23	20	33	55	246	203	51	24	19
26	29	21	e16	22	e23	35	67	253	172	52	31	19
27	27	20	e17	20	e25	33	68	251	159	49	35	19
28	26	21	e18	e19	28	31	62	290	167	46	28	19
29	26	22	e19	e19	---	30	57	278	165	43	26	19
30	26	25	20	e18	---	28	61	249	164	41	25	18
31	24	---	20	18	---	26	---	250	---	42	25	---
TOTAL	904	671	607	638	654	882	1298	4781	5923	2922	1009	644
MEAN	29.2	22.4	19.6	20.6	23.4	28.5	43.3	154	197	94.3	32.5	21.5
MAX	41	25	26	31	41	39	72	290	261	178	44	26
MIN	24	20	15	17	19	21	21	56	130	41	22	18
AC-FT	1790	1330	1200	1270	1300	1750	2570	9480	11750	5800	2000	1280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1999, BY WATER YEAR (WY)

	MEAN	20.6	21.8	22.2	22.9	22.9	27.7	51.4	127	178	106	40.0	23.7
MAX	47.7	65.3	98.4	101	58.9	85.7	97.0	323	388	297	137	55.5	
(WY)	1983	1951	1951	1997	1986	1986	1986	1969	1983	1967	1983	1983	
MIN	6.79	9.84	9.10	9.26	11.0	10.8	20.9	16.5	36.6	9.48	5.41	4.95	
(WY)	1978	1949	1949	1949	1977	1977	1976	1977	1976	1977	1977	1977	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1945 - 1999			
ANNUAL TOTAL	26882				20933							
ANNUAL MEAN	73.6				57.4				55.5			
HIGHEST ANNUAL MEAN									113			
LOWEST ANNUAL MEAN									13.9			
HIGHEST DAILY MEAN	338				290				730			
LOWEST DAILY MEAN	15				15				2.6			
ANNUAL SEVEN-DAY MINIMUM	16				16				3.0			
INSTANTANEOUS PEAK FLOW					341				2540			
INSTANTANEOUS PEAK STAGE					2.82				5.70			
ANNUAL RUNOFF (AC-FT)	53320				41520				40180			
10 PERCENT EXCEEDS	222				160				148			
50 PERCENT EXCEEDS	36				27				26			
90 PERCENT EXCEEDS	21				20				13			

e Estimated

WALKER LAKE BASIN

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

LOCATION.--Lat 38°22'47", long 119°26'57", in NE 1/4 SE 1/4 sec.9, T.6 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Toiyabe National Forest, on left bank, 200 ft downstream from Little Walker River, 10 ft upstream from bridge on U.S. Highway 395, and 13 mi southeast of Coleville.

DRAINAGE AREA.--181 mi².

PERIOD OF RECORD.--April 1938 to current year. Prior to October 1958, published as "below East Fork."

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

GAGE.--Water-stage recorder. Datum of gage is 6,591.39 ft above sea level. Prior to October 1, 1939, at site, 125 ft downstream at datum 1.00 ft higher. October 1, 1939, to September 30, 1969, at present site and datum. October 1, 1969, to July 10, 1987, at site 100 ft downstream at same datum. July 10, 1987 to March 5, 1997, at site upstream 100 ft at same datum. March 6, 1997 at site 150 ft downstream at datum 2.00 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poore Lake, capacity, 1,200 acre-ft, 7 mi upstream. See schematic diagram of Walker Lake Basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed prior to 1938, 5,800 ft³/s, December 11, 1937, on basis of slope-area measurement of peak flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s, January 2, 1997, gage height, 10.11 ft; minimum daily, 9.7 ft³/s, September 11, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges 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 12	2330	1,440	4.37	June 16	0215	2,290	5.31
May 29	0030	*2,630	*5.65				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	78	93	67	e65	88	147	327	1730	1180	210	87
2	143	70	e88	66	e65	93	142	394	1520	1200	199	85
3	125	71	e80	63	e65	112	134	352	1070	1110	190	82
4	118	69	79	e62	65	115	133	319	875	952	194	78
5	111	67	e80	e62	67	102	127	359	756	832	213	74
6	106	61	e81	e62	59	98	129	546	862	798	194	71
7	100	70	e82	61	121	95	123	772	970	846	179	71
8	95	73	e82	60	107	93	117	835	915	795	164	70
9	91	66	83	e60	e104	88	125	790	917	704	160	69
10	90	77	e82	61	e100	92	119	734	968	681	193	79
11	89	82	82	56	e80	91	122	867	1170	723	208	74
12	86	72	80	54	e70	89	121	1120	1340	673	171	71
13	83	83	77	e55	e60	92	128	1190	1560	634	154	69
14	82	86	76	e55	e59	96	149	941	1800	598	142	68
15	80	83	82	55	e65	92	164	793	1930	609	135	66
16	74	79	82	60	72	92	186	754	1960	549	137	65
17	69	79	83	61	91	101	236	852	1860	466	133	64
18	71	67	79	68	82	116	297	1030	1870	405	130	81
19	70	73	e74	97	79	126	377	1050	1810	367	132	94
20	70	73	e66	65	78	124	439	1140	1630	342	127	83
21	69	77	e64	45	72	116	498	1270	1600	318	124	75
22	70	76	e64	68	78	115	471	1450	1550	297	123	72
23	70	84	e64	e67	70	121	381	1720	1740	286	121	72
24	75	86	e64	e66	70	127	331	1790	1830	281	113	69
25	78	87	e64	e66	63	140	318	1950	1540	265	111	66
26	81	84	e64	e66	71	159	408	1970	1180	251	127	64
27	79	80	e65	e65	77	171	451	1800	1050	245	132	62
28	79	80	e65	e65	80	167	419	2130	1070	237	111	61
29	79	80	e66	e65	---	163	357	2100	1130	228	99	60
30	79	97	e66	e65	---	155	332	1760	1120	215	91	57
31	72	---	e68	e65	---	152	---	1710	---	212	90	---
TOTAL	2747	2310	2325	1953	2135	3581	7481	34815	41323	17299	4607	2159
MEAN	88.6	77.0	75.0	63.0	76.2	116	249	1123	1377	558	149	72.0
MAX	163	97	93	97	121	171	498	2130	1960	1200	213	94
MIN	69	61	64	45	59	88	117	319	756	212	90	57
AC-FT	5450	4580	4610	3870	4230	7100	14840	69060	81960	34310	9140	4280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1999, BY WATER YEAR (WY)

	MEAN	55.9	68.7	72.6	79.8	76.0	111	299	773	965	507	155	75.5
	MAX	219	539	448	854	246	369	609	1655	2066	1864	663	246
	(WY)	1983	1951	1951	1997	1963	1986	1997	1969	1983	1995	1983	1983
	MIN	16.6	22.2	20.0	18.1	26.0	32.1	108	139	188	41.1	18.5	12.4
	(WY)	1978	1978	1991	1977	1991	1977	1975	1977	1976	1977	1977	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1938 - 1999
ANNUAL TOTAL	160529	122735	
ANNUAL MEAN	440	336	
HIGHEST ANNUAL MEAN			268
LOWEST ANNUAL MEAN			537
HIGHEST DAILY MEAN	2340	2130	8660
LOWEST DAILY MEAN	38	45	9.7
ANNUAL SEVEN-DAY MINIMUM	46	57	10
INSTANTANEOUS PEAK FLOW		2630	12300
INSTANTANEOUS PEAK STAGE		5.65	10.11
ANNUAL RUNOFF (AC-FT)	318400	243400	193800
10 PERCENT EXCEEDS	1530	1110	821
50 PERCENT EXCEEDS	143	97	90
90 PERCENT EXCEEDS	60	65	34

e Estimated

WALKER LAKE BASIN

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, 0.4 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, 1905-08 and as Walker River (West Fork) near Coleville, 1904), March 1909 to September 1910, June 1915 to March 1938, May 1957 to current year.

REVISED RECORDS.--WSP 880: 1917 (runoff in acre-ft). WSP 1514: 1918, 1923. WDR NV-80-1: Drainage area.

GAGE.—Water-stage recorder. Elevation of gage is 5,520 ft above sea level, from topographic map. See WSP 1927 for history of changes prior to July 25, 1964. July 26, 1964, to January 2, 1997 (gage destroyed in 1997 flood) at several sites and datums 2,000 ft downstream from present location, when re-established October 28, 1997, at new datum.

REMARKS.--No estimated daily discharges. Records fair. Station is above diversions except for a few small ranch ditches. Flow slightly regulated by Poore Lake, capacity, 1,200 acre-ft, 17 mi upstream. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s, January 2, 1997, gage height, 10.23 ft; minimum daily, 14 ft³/s, several days July-September 1924 and September 12, 1977.

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 13	0145	1,580	7.46	June 15	0300	2,520	8.17
May 29	0500	*2,750	*8.47				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	84	113	82	62	108	149	339	1750	1230	217	100
2	146	77	113	81	66	115	155	396	1610	1250	205	96
3	131	80	120	76	70	126	150	366	1160	1160	195	92
4	122	76	88	80	70	127	142	333	916	989	198	87
5	116	75	86	83	67	111	142	354	779	849	216	83
6	111	71	92	80	66	107	143	501	868	804	200	79
7	106	75	84	85	114	101	140	760	1030	849	187	76
8	101	80	104	78	136	97	129	847	970	816	170	75
9	97	74	90	75	114	97	125	803	978	724	165	74
10	94	81	90	79	88	90	127	729	1020	690	188	81
11	94	89	97	82	101	101	139	861	1270	728	215	79
12	93	77	97	82	111	93	136	1180	1460	696	180	76
13	90	88	96	83	109	99	144	1340	1640	654	160	74
14	89	93	92	82	104	103	164	1030	1940	611	150	72
15	88	90	91	86	98	102	179	825	2050	616	145	70
16	83	88	94	92	99	101	203	768	1980	550	145	69
17	76	90	94	91	115	108	260	872	1840	469	140	69
18	79	76	94	99	110	120	308	1080	1860	420	136	79
19	77	84	86	126	102	134	367	1030	1810	385	136	99
20	77	83	67	107	95	135	410	1080	1640	357	132	87
21	78	88	70	73	99	127	478	1270	1610	335	130	80
22	79	89	83	87	93	125	464	1470	1560	310	127	76
23	78	93	83	94	93	132	384	1830	1730	292	126	78
24	80	101	81	82	91	136	343	1880	1840	291	118	75
25	85	99	99	85	91	149	325	2110	1620	273	115	73
26	87	98	94	84	83	164	396	2180	1250	260	122	70
27	86	96	87	80	98	180	440	1850	1090	253	149	68
28	86	96	88	65	103	175	422	2100	1110	243	127	67
29	85	95	85	69	---	172	374	2220	1190	235	114	68
30	85	108	86	69	---	165	350	1780	1170	225	105	66
31	79	---	90	68	---	160	---	1730	---	220	103	---
TOTAL	2941	2594	2834	2585	2648	3860	7688	35914	42741	17784	4816	2338
MEAN	94.9	86.5	91.4	83.4	94.6	125	256	1159	1425	574	155	77.9
MAX	163	108	120	126	136	180	478	2220	2050	1250	217	100
MIN	76	71	67	65	62	90	125	333	779	220	103	66
AC-FT	5830	5150	5620	5130	5250	7660	15250	71240	84780	35270	9550	4640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1999, BY WATER YEAR (WY)

MEAN	70.9	71.4	68.4	79.9	82.4	128	306	789	1003	539	170	84.9
MAX	299	214	270	905	280	403	636	1756	2055	2492	721	269
(WY)	1905	1974	1965	1997	1963	1986	1910	1969	1983	1907	1995	1907
MIN	21.5	25.4	28.7	26.9	32.0	42.1	118	149	106	26.9	17.4	16.1
(WY)	1978	1930	1960	1930	1929	1933	1975	1977	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1903 - 1999
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ANNUAL TOTAL	166065		128743			
ANNUAL MEAN	455		353		282	
HIGHEST ANNUAL MEAN					669	1907
LOWEST ANNUAL MEAN					74.5	1977
HIGHEST DAILY MEAN	2380	Jun 16	2220	May 29	9000	Jan 2 1997
LOWEST DAILY MEAN	40	Jan 3	62	Feb 1	14	Jul 24 1924
ANNUAL SEVEN-DAY MINIMUM	50	Jan 6	67	Jan 28	14	Aug 28 1924
INSTANTANEOUS PEAK FLOW			2750	May 29	12500	Jan 2 1997
INSTANTANEOUS PEAK STAGE			8.47	May 29	10.23	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	329400		255400		204600	
10 PERCENT EXCEEDS	1520		1160		855	
50 PERCENT EXCEEDS	152		111		98	
90 PERCENT EXCEEDS	76		76		38	

WALKER LAKE BASIN

10297000 TOPAZ LAKE NEAR TOPAZ, CA

LOCATION.--Lat 38°41'35", long 119°31'10", in NW 1/4 NE 1/4 sec.33, T.10 N., R.22 E., Douglas County, Hydrologic Unit 16050301, at outlet works of Topaz Lake on West Walker River, and 5.5 mi north of Topaz.

PERIOD OF RECORD.--December 1921 to September 1931 (monthly contents only published in WSP 1734), October 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is above 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). Usable capacity of reservoir was increased from about 45,000 acre-ft to 59,440 acre-ft in October 1937 by an earthfill, rock-faced levee at south end. Figures given herein represent usable contents. There is 65,000 acre-ft of lake volume below the point of controllable storage. Water is used for irrigation in Walker River Irrigation District. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,680 acre-ft, July 3, 1980, July 10, 1995, elevation 5,000.92 ft, present datum; no usable contents at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum contents 59,210 acre-ft, July 2-4, elevation, 5,000.28 ft; minimum contents, 12,440 acre-ft, September 30, elevation 4,975.57 ft.

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

4,968	490	4,980	19,760	4,995	47,540
4,970	3,580	4,985	28,310	5,000	58,570
4,975	11,520	4,990	37,360	5,001	60,870

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37190	38880	44820	49380	54820	57160	57610	47200	56260	58980	43640	24210
2	37320	39050	45090	49400	55020	56710	57390	46900	56710	59210	42740	23600
3	37400	39230	45320	49610	55130	56930	57390	46390	56710	59210	41820	23050
4	37530	39370	45510	49850	55360	57160	57390	45910	56930	58980	40950	22610
5	37670	39530	45660	49830	55580	57160	57160	45410	56930	58750	40080	22150
6	37780	39690	45830	50050	55580	57160	57390	45030	56930	58750	39330	21690
7	37900	39850	45950	50240	56030	57390	57390	44880	56930	58520	38580	21200
8	37960	40030	46120	50460	56710	57390	57390	44760	56930	58300	37920	20610
9	37960	40180	46270	50440	57160	57390	57160	44610	57390	58070	37260	20020
10	38000	40390	46430	50650	57390	57390	57160	44410	57840	57390	36670	19470
11	38040	40670	46560	50850	57390	57610	57160	44280	58070	56930	36080	18920
12	38080	40890	46770	50850	57840	57610	57390	44360	57840	56480	35600	18370
13	38060	41090	46880	51040	57840	57610	57160	44680	57840	56030	35170	17830
14	38110	41310	47050	51260	58070	57840	56930	44740	57610	55580	34710	17130
15	38150	41490	47180	51460	58300	57840	56710	44570	57390	55130	34160	16440
16	38170	41720	47340	51680	58300	57840	56480	44360	57390	54910	33560	15780
17	38150	41920	47510	51880	58520	57840	55810	44160	57610	54460	32840	15200
18	38130	42100	47680	52100	58520	57840	55360	44140	58070	54020	32030	14720
19	38110	42310	47830	52290	58520	58070	54690	44070	58070	53350	31280	14280
20	38150	42470	47980	52730	58300	58070	54020	44010	58070	52690	30640	13920
21	38230	42590	48050	52930	58070	58070	53350	44120	58070	52030	30020	13640
22	38310	42920	48130	53150	57840	58300	52910	44380	58070	51370	29440	13450
23	38370	42880	48170	53350	57610	58300	52250	45200	58300	50720	28870	13330
24	38370	43290	48220	53570	57390	58300	51590	46220	58520	50280	28380	13170
25	38410	43520	48320	53770	57390	58070	50720	47320	58520	49630	27940	13020
26	38430	43700	48500	54000	57390	58300	50280	48770	58300	48770	27540	12850
27	38480	43910	48710	54200	57160	58070	49630	50070	58070	48260	27070	12750
28	38490	44140	48710	54200	57160	58070	48990	51810	58070	47390	26640	12630
29	38540	44300	48950	54400	---	57840	48350	53570	58300	46410	26070	12540
30	38600	44590	49160	54620	---	57610	47830	54910	58750	45490	25410	12440
31	38680	---	49160	54820	---	57610	---	55810	---	44550	24810	---
MAX	38680	44590	49160	54820	58520	58300	57610	55810	58750	59210	43640	24210
MIN	37190	38880	44820	49380	54820	56710	47830	44010	56260	44550	24810	12440
#	4990.68	4993.60	4995.76	4998.34	4999.38	4999.58	4995.14	4998.78	5000.08	4993.58	4982.98	4975.57
##	+1610	+5910	+4570	+5660	+2340	+450	-9780	+7980	+2940	-14200	-19740	-12370

CAL YR 1998 MAX 60010 MIN 20190 ## +29570

WTR YR 1999 MAX 59210 MIN 12440 ## +24230

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

Change in contents, in acre-feet.

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.

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.--Records fair except for estimated daily discharges, which are poor. Flow regulated by off-channel storage in Topaz Lake (station 10297000), since January 30, 1922. Diversions for irrigation of about 10,500 acres above station. Records include releases from Topaz Lake and all return flow from Antelope Valley. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s, January 3, 1997, gage height, 13.68 ft; minimum daily, 3.6 ft³/s, February 5, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,160 ft³/s, June 16, gage height, 6.92 ft; minimum daily, 34 ft³/s, January 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	50	37	e42	45	173	183	556	1300	710	549	339
2	132	45	37	e41	43	175	197	552	1310	821	543	337
3	124	44	37	e40	45	166	213	559	1190	942	526	306
4	120	44	44	e39	46	158	190	541	827	855	494	263
5	114	45	53	37	45	138	169	531	723	702	483	258
6	101	44	53	37	44	107	168	551	679	664	439	255
7	97	42	53	36	48	104	175	635	729	652	429	256
8	119	41	53	34	77	103	181	710	728	648	380	308
9	133	41	54	35	77	102	175	746	605	682	378	305
10	133	41	54	35	74	102	171	723	485	751	385	303
11	132	44	58	35	63	102	135	735	620	741	357	297
12	130	44	60	35	63	103	141	806	1130	739	329	293
13	129	42	62	35	82	102	193	906	1440	670	263	284
14	124	43	59	35	86	103	259	884	1590	657	255	346
15	107	45	55	36	84	103	283	780	2000	633	302	357
16	106	45	54	37	92	104	309	730	2050	492	330	339
17	125	45	54	37	117	104	400	740	1750	481	379	301
18	123	45	55	39	164	105	504	832	1510	456	436	288
19	120	43	55	44	167	105	543	961	1770	576	412	241
20	97	44	55	52	243	108	666	988	1690	512	345	240
21	79	42	e57	51	282	108	686	1040	1560	456	325	177
22	78	41	e56	44	266	106	703	1070	1530	446	324	139
23	81	39	e54	44	248	103	703	1010	1410	415	319	111
24	106	37	e52	48	249	116	686	1120	1540	412	294	110
25	106	36	e50	47	213	134	664	1120	1620	449	260	101
26	107	35	e48	47	173	139	660	1070	1450	447	261	91
27	107	35	e47	46	171	177	676	1050	1150	448	283	82
28	105	36	e46	45	173	208	676	887	917	520	283	82
29	107	36	e45	42	---	211	665	997	804	564	320	78
30	94	36	e44	44	---	204	652	982	772	557	322	76
31	84	---	e43	46	---	170	---	1120	---	552	319	---
TOTAL	3491	1250	1584	1265	3480	4043	12026	25932	36879	18650	11324	6963
MEAN	113	41.7	51.1	40.8	124	130	401	837	1229	602	365	232
MAX	171	50	62	52	282	211	703	1120	2050	942	549	357
MIN	78	35	37	34	43	102	135	531	485	412	255	76
AC-FT	6920	2480	3140	2510	6900	8020	23850	51440	73150	36990	22460	13810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1999, BY WATER YEAR (WY)

	MEAN	81.1	45.6	45.2	57.8	55.8	84.2	274	628	722	513	293	162
MAX	286	332	399	1032	500	477	730	1303	1949	1611	721	390	
(WY)	1984	1983	1983	1997	1997	1983	1982	1969	1983	1995	1983	1983	
MIN	12.6	13.3	9.20	5.56	7.66	8.03	59.7	115	150	97.1	26.6	19.5	
(WY)	1978	1982	1985	1985	1985	1962	1929	1977	1924	1992	1977	1931	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1910 - 1999

ANNUAL TOTAL	140597	126887										
ANNUAL MEAN	385	348										
HIGHEST ANNUAL MEAN												1983
LOWEST ANNUAL MEAN											61.0	1977
HIGHEST DAILY MEAN	1590	Jul 10	2050	Jun 16						4000	Jan 3	1997
LOWEST DAILY MEAN	31	Jan 31	34	Jan 8						3.6	Feb 5	1985
ANNUAL SEVEN-DAY MINIMUM	32	Jan 26	35	Jan 8						3.8	Feb 9	1985
INSTANTANEOUS PEAK FLOW			2160	Jun 16						11500	Jan 3	1997
INSTANTANEOUS PEAK STAGE			6.92	Jun 16						13.68	Jan 3	1997
ANNUAL RUNOFF (AC-FT)	278900	251700								182800		
10 PERCENT EXCEEDS	1050	867								655		
50 PERCENT EXCEEDS	125	173								108		
90 PERCENT EXCEEDS	36	42								20		

e Estimated

WALKER LAKE BASIN

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 September 1978, April 1979 to September 1994, (irrigation season only) October 1994 to current year. August 1914 to April 1921 published as "at Hudson."

GAGE.--Water-stage recorder. Elevation of gage is 4,650 ft above 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.--Records fair except for estimated daily discharges, which are poor. Flow regulated by off-channel storage in Topaz Lake (station 10297000) since January 30, 1922. Many diversions above station for irrigation. Station is below return flow from irrigated areas in Smith Valley. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s, January 3, 1997, gage height, 12.18 ft; minimum daily, 10 ft³/s, January 23, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,230 ft³/s, June 16, gage height, 4.81 ft; minimum daily, 55 ft³/s, December 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	99	57	73	74	184	140	396	1160	398	377	190
2	110	80	56	71	72	185	144	379	1260	462	380	200
3	96	78	56	73	72	185	152	392	1230	601	367	194
4	93	69	55	77	74	171	144	394	819	619	328	158
5	88	72	60	69	73	170	131	388	651	487	334	155
6	80	71	63	60	72	135	135	387	563	426	311	154
7	74	72	73	60	75	127	151	421	571	388	308	150
8	73	69	66	59	85	124	154	479	589	374	272	183
9	77	69	65	63	102	123	147	509	530	360	260	199
10	74	69	65	61	102	122	137	506	372	442	273	200
11	76	71	68	58	92	122	113	493	385	450	271	201
12	81	71	75	60	84	122	103	526	808	460	260	201
13	76	69	77	61	96	120	124	631	1370	415	211	185
14	75	70	78	60	104	122	152	696	1580	396	173	242
15	74	72	72	61	104	121	187	580	1980	387	182	287
16	71	73	70	62	104	122	215	512	2160	315	220	275
17	82	70	68	63	118	121	306	486	1900	294	234	227
18	103	69	68	65	152	121	399	488	1460	249	279	211
19	108	67	69	69	166	118	427	604	1680	319	286	167
20	96	68	e66	74	201	123	464	674	1700	348	227	153
21	71	69	e66	80	279	123	473	724	1470	293	194	127
22	59	68	e67	75	285	117	476	788	1420	279	192	93
23	60	67	e68	73	254	103	489	742	1210	276	192	79
24	79	66	e69	75	256	100	494	830	1270	281	174	76
25	94	59	e70	76	249	121	476	944	1430	304	156	70
26	101	57	e71	74	191	129	444	817	1360	305	150	66
27	107	56	e72	74	183	146	427	886	1030	294	147	67
28	98	57	e73	74	184	184	420	683	715	307	150	61
29	87	57	74	72	---	186	433	783	524	343	174	66
30	91	56	73	71	---	177	451	845	479	352	183	61
31	99	---	74	73	---	154	---	902	---	370	175	---
TOTAL	2687	2060	2104	2116	3903	4278	8508	18885	33676	11594	7440	4698
MEAN	86.7	68.7	67.9	68.3	139	138	284	609	1123	374	240	157
MAX	134	99	78	80	285	186	494	944	2160	619	380	287
MIN	59	56	55	58	72	100	103	379	372	249	147	61
AC-FT	5330	4090	4170	4200	7740	8490	16880	37460	66800	23000	14760	9320

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1999, BY WATER YEAR (WY)

	MEAN	72.4	66.5	73.2	83.4	92.2	101	215	449	604	364	174	108
MAX	203	178	493	1064	527	450	528	1231	1718	1490	568	290	290
(WY)	1917	1951	1951	1997	1997	1969	1982	1997	1983	1995	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	14.7
(WY)	1978	1962	1962	1962	1961	1961	1922	1977	1924	1924	1920	1920	1920

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1915 - 1999

ANNUAL TOTAL	108510	101949	
ANNUAL MEAN	297	279	
HIGHEST ANNUAL MEAN			204
LOWEST ANNUAL MEAN			435
HIGHEST DAILY MEAN	1400	Jul 10	2160 Jun 16
LOWEST DAILY MEAN	37	Jan 28	55 Dec 4
ANNUAL SEVEN-DAY MINIMUM	39	Jan 26	56 Nov 28
INSTANTANEOUS PEAK FLOW			2230 Jun 16
INSTANTANEOUS PEAK STAGE			4.81 Jun 16
ANNUAL RUNOFF (AC-FT)	215200	202200	147600
10 PERCENT EXCEEDS	869	624	496
50 PERCENT EXCEEDS	99	147	118
90 PERCENT EXCEEDS	52	66	35

e Estimated

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV

LOCATION.--Lat 39°09'10", long 119°05'50", in SE $\frac{1}{4}$ NW $\frac{1}{4}$ 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 fair, except for estimated daily discharges, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. No flow at times in 1924, 1925, and 1931. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,280 ft³/s, July 10, 11, 1906, gage height, 5.9 ft, site and datum then in use; no flow at times, 1924, 1925, and 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft³/s, June 16, 17, gage height, 8.96 ft; minimum daily, 33 ft³/s, October 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	237	279	e160	154	330	76	301	696	199	50	51
2	162	213	285	e150	153	330	62	272	811	138	62	74
3	149	181	283	e140	151	329	62	261	909	193	63	80
4	134	158	259	e135	157	313	59	260	968	413	60	63
5	119	144	242	e130	163	300	58	271	759	387	49	57
6	89	140	245	e130	166	287	72	243	689	298	69	70
7	65	129	243	e130	161	255	82	221	664	209	68	63
8	50	134	250	e130	170	230	110	247	700	188	105	60
9	48	156	235	e130	196	214	124	304	633	147	91	55
10	45	175	223	e130	272	215	113	308	445	154	111	39
11	44	192	213	e125	351	218	105	242	277	206	132	57
12	45	227	219	e120	354	207	84	225	345	206	132	72
13	45	242	229	117	360	191	75	236	749	187	114	73
14	54	263	229	128	377	189	84	269	1070	142	72	49
15	47	293	213	126	381	186	92	264	1200	143	81	61
16	33	304	200	124	381	163	115	212	1400	141	74	60
17	50	301	190	127	340	153	134	201	1400	105	52	47
18	71	300	186	127	316	144	230	201	1110	102	51	40
19	94	299	176	128	336	128	327	219	951	86	104	66
20	98	293	162	137	379	143	221	297	1030	92	164	60
21	102	289	e140	143	473	148	251	335	984	95	110	79
22	84	291	e118	146	532	140	233	397	872	80	121	69
23	63	294	e100	142	521	96	231	421	944	94	135	72
24	51	290	e85	144	470	71	226	420	842	49	140	55
25	82	283	e90	149	439	41	243	487	892	48	102	58
26	109	272	e140	147	384	34	228	515	991	53	77	68
27	100	276	e180	139	338	43	195	551	899	49	70	70
28	114	281	e190	139	329	58	197	587	700	42	68	64
29	127	281	e180	143	---	94	226	557	464	42	59	54
30	128	280	e175	148	---	113	270	627	274	56	59	50
31	149	---	e165	156	---	114	---	597	---	52	48	---
TOTAL	2694	7218	6124	4220	8804	5477	4585	10548	24668	4396	2693	1836
MEAN	86.9	241	198	136	314	177	153	340	822	142	86.9	61.2
MAX	162	304	285	160	532	330	327	627	1400	413	164	80
MIN	33	129	85	117	151	34	58	201	274	42	48	39
AC-FT	5340	14320	12150	8370	17460	10860	9090	20920	48930	8720	5340	3640

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 1999, BY WATER YEAR (WY)

	MEAN	77.6	92.0	114	134	144	156	160	265	497	264	93.8	69.6
MAX	585	704	854	1669	905	949	1344	1262	2255	1604	922	357	
(WY)	1984	1983	1984	1997	1997	1983	1952	1969	1983	1995	1983	1983	
MIN	.000	1.53	3.42	7.17	14.0	10.6	10.0	6.00	5.00	.23	.000	.000	
(WY)	1932	1932	1993	1978	1930	1931	1924	1924	1924	1931	1924	1924	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1902 - 1999		
ANNUAL TOTAL	136814			83263					
ANNUAL MEAN	375			228			173		
HIGHEST ANNUAL MEAN							832		
LOWEST ANNUAL MEAN							12.9		
HIGHEST DAILY MEAN	1790			Jun 17			2740		
LOWEST DAILY MEAN	33			Oct 16			.00		
ANNUAL SEVEN-DAY MINIMUM	45			Oct 10			.00		
INSTANTANEOUS PEAK FLOW				1470			Jun 16		
INSTANTANEOUS PEAK STAGE				8.96			Jun 16		
ANNUAL RUNOFF (AC-FT)	271400			165200			125600		
10 PERCENT EXCEEDS	983			466			405		
50 PERCENT EXCEEDS	190			153			72		
90 PERCENT EXCEEDS	85			57			15		

e Estimated

WALKER LAKE BASIN

10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960 to June 1996; November 1996 to current year.

PERIOD OF DAILY RECORD.--

CHEMICAL ANALYSES: October 1968 to September 1969.

SPECIFIC CONDUCTANCE: October 1968 to September 1976, once-daily; May 1995 to June 1996, four times per hour; November 1996 to current year, four times per hour.

WATER TEMPERATURE: October 1968 to September 1976, once-daily; May 1995 to June 1996, four times per hour; November 1996 to current year, four times per hour.

INSTRUMENTATION.--Water quality monitor May 1995 to June 1996, four times per hour; November 1996 to current year, four times per hour.

REMARKS.--Inflow from two drainage ditches occasionally enters stream less than a mile above sampling site. Because inflow and streamflow differ in quality, and because the waters do not mix thoroughly above sampling site, flow at site is not homogenous either chemically or thermally when ditches discharge to the stream. Doubtless, this was responsible for some of the variation shown by daily specific-conductance and temperature data during water years 1969-76. Detailed sampling information is available from U.S. Geological Survey, Carson City, Nev. Pesticide analyses prior to October 1981 from U.S. Environmental Protection Agency. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 792 microsiemens, December 12, 1972; minimum daily, 116 microsiemens, July 23, 1998.

WATER TEMPERATURE: Maximum daily, 34.5°C, July 24, 1975; minimum daily, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 668 microsiemens, September 18; minimum recorded, 181 microsiemens, June 26.

WATER TEMPERATURE: Maximum recorded, 28.5°C, July 31; minimum recorded, freezing point many days in December to February.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	420	382	393	410	400	404	346	330	341	408	392	401
2	410	394	401	410	396	401	330	324	326	414	405	409
3	442	409	427	443	410	425	336	326	332	428	409	422
4	459	441	450	469	442	455	336	324	328	450	422	433
5	473	457	464	477	463	468	335	325	331	450	425	436
6	508	472	488	487	476	480	339	332	334	447	415	433
7	540	507	523	499	484	490	348	336	342	434	418	426
8	558	536	548	498	469	486	349	345	347	443	421	432
9	588	556	578	470	437	453	351	340	347	455	433	445
10	589	564	579	437	422	428	347	340	344	460	440	448
11	575	566	570	427	409	419	352	345	348	466	447	456
12	604	559	572	409	384	396	354	348	350	461	429	447
13	601	551	574	384	372	378	355	348	351	430	423	426
14	551	522	533	373	359	364	362	351	356	434	422	425
15	572	522	536	360	341	349	364	359	361	431	425	428
16	613	572	592	343	338	340	367	357	363	434	431	433
17	578	519	535	343	335	340	382	362	368	435	429	432
18	525	470	500	336	329	332	384	376	379	433	429	431
19	473	446	454	331	328	330	386	375	379	434	428	431
20	459	441	449	340	331	334	392	377	384	433	426	430
21	443	431	435	336	329	332	417	392	410	428	420	423
22	493	439	462	349	334	340	438	414	429	430	419	424
23	524	479	500	357	342	350	458	427	445	436	429	433
24	544	524	535	358	349	353	462	442	454	436	432	434
25	545	503	521	361	356	359	448	430	440	433	423	427
26	503	466	480	361	353	357	436	407	427	423	418	421
27	467	455	460	364	360	362	408	377	391	420	416	418
28	457	441	449	368	350	363	403	380	394	419	414	417
29	442	421	429	352	342	347	404	387	395	417	412	415
30	430	420	425	352	343	346	407	387	397	415	409	413
31	421	408	416	---	---	---	410	390	398	414	405	409
MONTH	613	382	493	499	328	386	462	324	374	466	392	428

WALKER LAKE BASIN
10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	406	400	403	285	278	282	436	391	411	350	317	331
2	401	396	399	284	279	282	456	434	445	363	350	355
3	402	394	397	288	281	285	468	455	462	370	358	364
4	396	387	392	291	284	288	472	458	464	369	356	363
5	389	382	386	301	290	298	487	463	474	365	352	359
6	383	377	380	305	297	301	473	443	456	---	---	---
7	381	373	378	332	304	319	446	428	438	---	---	---
8	374	369	371	341	330	335	430	411	420	---	---	---
9	370	355	364	350	337	345	411	401	406	---	---	---
10	356	338	349	347	341	344	414	403	408	---	---	---
11	338	315	322	348	341	345	436	411	422	---	---	---
12	316	310	312	349	342	345	456	425	440	---	---	---
13	311	306	308	357	345	350	483	453	467	---	---	---
14	309	306	308	362	352	358	493	474	483	---	---	---
15	308	297	302	369	355	362	489	469	480	---	---	---
16	298	293	295	368	359	364	470	429	452	---	---	---
17	308	293	299	373	359	366	430	399	416	---	---	---
18	329	308	316	380	366	372	400	338	368	---	---	---
19	337	326	331	390	379	385	339	305	319	---	---	---
20	337	290	315	392	379	385	318	303	310	---	---	---
21	291	260	274	388	374	380	317	302	307	---	---	---
22	261	231	243	381	368	374	303	295	299	---	---	---
23	233	225	230	413	380	395	299	293	295	---	---	---
24	242	231	237	480	412	436	303	297	300	---	---	---
25	244	241	242	549	480	520	310	300	305	---	---	---
26	260	243	249	564	547	553	315	306	311	---	---	---
27	277	260	272	551	526	540	327	312	319	---	---	---
28	280	275	277	584	480	552	326	314	320	---	---	---
29	---	---	---	480	404	431	328	304	315	270	236	257
30	---	---	---	404	390	396	320	299	310	272	262	268
31	---	---	---	393	385	389	---	---	---	270	256	265
MONTH	406	225	320	584	278	377	493	293	387	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	257	244	252	301	290	293	434	404	423	495	426	463
2	244	231	236	316	290	304	408	376	387	428	391	401
3	233	221	227	313	277	295	429	402	419	422	387	401
4	239	221	227	278	255	264	445	392	416	447	412	429
5	262	239	250	260	255	258	470	444	455	441	415	427
6	278	261	270	277	257	266	458	393	418	431	414	422
7	267	259	262	294	275	284	415	382	404	430	402	418
8	260	256	258	298	286	292	388	374	381	450	403	424
9	260	253	256	318	296	307	410	385	397	456	413	433
10	282	259	270	320	308	313	404	367	377	487	441	464
11	303	278	288	313	304	308	388	349	368	447	409	422
12	299	249	280	309	302	306	399	348	368	410	383	392
13	250	209	225	308	300	304	411	378	389	421	384	404
14	---	---	---	323	303	313	461	411	434	435	411	423
15	---	---	---	320	306	314	457	417	433	435	387	408
16	---	---	---	333	316	325	460	433	447	409	371	388
17	---	---	---	357	329	342	498	450	479	442	405	417
18	---	---	---	364	342	352	503	461	488	668	442	543
19	---	---	---	375	357	365	461	358	407	461	422	443
20	---	---	---	376	356	368	358	344	351	442	417	427
21	---	---	---	364	342	354	398	358	379	423	402	413
22	---	---	---	392	359	373	389	381	385	429	402	414
23	---	---	---	393	364	375	384	361	370	448	424	435
24	---	---	---	442	393	423	377	361	365	471	444	461
25	---	---	---	445	432	439	451	374	407	464	448	457
26	213	181	200	439	422	432	454	412	436	468	445	458
27	235	213	224	---	---	---	441	421	433	450	436	445
28	256	235	245	---	---	---	443	437	440	451	435	443
29	284	255	268	460	438	448	486	435	464	471	445	457
30	302	283	292	438	380	401	496	437	466	486	458	472
31	---	---	---	434	387	414	496	461	479	---	---	---
MONTH	---	---	---	---	---	---	503	344	415	668	371	433

WALKER LAKE BASIN
10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.5	12.5	15.5	10.0	7.5	9.0	8.0	6.5	7.0	.0	.0	.0
2	18.0	13.0	15.5	10.0	6.5	8.0	7.0	5.0	6.0	.0	.0	.0
3	16.0	12.0	13.5	10.5	7.0	8.5	7.5	6.0	6.5	.0	.0	.0
4	16.0	10.0	12.5	9.5	6.5	8.0	6.0	2.5	4.0	.0	.0	.0
5	15.5	9.5	12.0	8.5	5.5	6.5	2.5	.5	1.5	.0	.0	.0
6	16.0	8.5	12.0	6.5	4.5	5.0	2.0	.0	1.0	.0	.0	.0
7	17.0	8.5	12.5	8.5	4.5	6.5	1.0	.0	.0	.0	.0	.0
8	17.0	8.5	12.5	8.0	5.5	6.5	2.5	.0	1.0	.0	.0	.0
9	16.5	8.5	12.0	7.5	4.0	5.5	2.0	.0	1.0	.0	.0	.0
10	15.5	8.5	11.5	6.5	4.5	5.5	1.0	.0	.5	.0	.0	.0
11	16.0	7.5	11.0	6.5	5.5	6.0	1.5	.0	.5	.0	.0	.0
12	14.0	8.0	11.0	6.5	4.0	5.0	2.5	.0	1.0	2.0	.0	1.0
13	15.5	8.0	11.5	6.5	4.0	5.0	4.0	1.0	2.5	4.5	.5	2.0
14	16.0	9.0	12.0	7.0	4.5	6.0	4.5	2.5	3.0	3.0	.5	2.0
15	14.0	9.0	11.0	6.5	4.5	6.0	3.5	1.5	2.5	6.0	2.5	4.0
16	13.5	7.5	9.5	6.5	4.5	5.5	3.5	1.0	2.0	6.5	4.0	5.0
17	12.5	5.0	8.5	6.5	4.5	5.5	3.5	1.0	2.0	6.5	4.0	5.0
18	11.5	5.0	8.0	6.0	4.0	5.0	3.5	.5	2.0	7.0	4.5	5.5
19	12.0	5.5	8.5	5.5	3.5	4.5	1.5	.0	.5	8.0	4.0	5.5
20	12.5	6.0	9.0	5.5	3.0	4.5	.0	.0	.0	7.0	4.5	5.5
21	12.5	6.5	9.5	7.5	4.5	6.0	.0	.0	.0	5.0	2.5	4.0
22	14.0	8.5	11.0	8.0	6.0	7.0	.0	.0	.0	7.0	3.0	4.5
23	14.5	7.5	10.5	9.0	7.0	8.0	.0	.0	.0	5.0	4.0	4.5
24	11.0	8.5	10.0	8.0	6.5	7.0	.0	.0	.0	4.0	2.0	3.0
25	9.5	7.5	8.5	6.5	5.5	6.0	.0	.0	.0	3.0	1.0	2.0
26	12.5	7.5	9.5	6.5	3.5	5.0	.0	.0	.0	4.5	1.5	2.5
27	12.5	7.5	10.0	6.0	5.0	5.5	.0	.0	.0	4.0	1.0	2.5
28	13.0	8.5	10.5	7.0	5.5	6.5	.0	.0	.0	4.0	.0	2.0
29	10.5	8.0	9.5	7.5	6.0	7.0	.0	.0	.0	3.5	.0	1.5
30	11.0	6.5	8.5	8.0	5.5	7.0	.0	.0	.0	4.5	.5	2.5
31	10.0	5.5	7.5	---	---	---	.0	.0	.0	4.0	2.0	3.0
MONTH	18.5	5.0	10.8	10.5	3.0	6.2	8.0	.0	1.4	8.0	.0	2.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	6.0	1.5	3.5	10.5	7.0	8.5	10.0	3.5	6.5	17.0	10.5	13.5
2	5.5	1.5	3.5	10.5	7.0	9.0	9.5	3.5	6.0	14.5	11.5	12.5
3	7.0	2.5	4.5	11.0	7.5	9.5	6.0	2.5	4.5	14.5	9.5	12.0
4	6.0	3.5	5.0	10.0	7.0	8.5	13.5	1.5	6.5	16.0	10.0	13.0
5	8.0	4.0	6.0	7.5	5.0	6.5	13.0	4.5	8.0	17.5	11.0	14.0
6	6.0	5.0	5.5	7.5	3.5	5.5	9.5	4.5	6.5	18.5	12.0	15.5
7	8.5	5.5	6.5	7.5	4.0	6.0	11.5	5.0	7.0	19.5	13.5	16.0
8	8.5	4.5	6.5	7.5	4.5	6.0	10.5	4.0	7.0	18.5	13.0	15.5
9	6.5	3.5	5.5	8.0	4.0	5.5	12.0	2.5	6.5	16.5	11.5	14.0
10	3.5	1.0	2.5	7.0	3.5	5.5	10.5	3.5	6.5	16.5	11.5	14.0
11	2.5	.0	1.5	8.5	5.0	6.5	16.0	6.0	10.0	18.5	12.5	15.5
12	2.5	.5	1.5	9.5	4.0	7.0	17.5	6.0	11.5	20.5	15.0	17.5
13	4.0	1.5	3.0	8.5	5.5	7.0	20.0	7.5	13.0	18.0	13.0	15.5
14	4.0	3.0	3.5	10.5	5.5	8.0	18.0	8.5	12.5	17.0	11.5	14.0
15	4.5	1.5	3.5	11.0	7.0	9.0	19.0	7.5	13.0	16.5	10.5	13.5
16	5.5	4.0	4.5	12.5	5.5	9.0	18.5	8.5	13.5	18.5	11.0	14.5
17	7.0	5.0	6.0	13.5	7.0	10.5	20.0	11.0	15.0	20.0	12.0	16.0
18	8.0	6.5	7.0	14.5	8.0	11.0	18.0	12.0	15.0	18.0	14.0	16.0
19	6.5	5.5	6.0	11.5	8.5	10.0	16.0	12.5	14.0	20.0	12.5	16.5
20	6.0	4.0	5.0	10.0	7.0	9.0	18.5	12.5	15.0	19.5	14.5	17.0
21	6.0	4.0	5.0	12.0	4.5	8.0	15.5	12.5	14.0	20.0	14.5	17.0
22	6.0	3.5	5.0	13.0	5.0	9.0	12.5	9.0	11.0	19.5	15.0	17.0
23	7.5	4.5	6.0	15.0	6.5	10.5	10.5	7.5	9.0	20.0	15.5	17.5
24	8.0	5.5	6.5	14.5	6.5	10.5	12.0	7.5	10.0	20.5	17.0	18.5
25	8.0	6.0	7.0	17.5	7.0	11.5	15.5	9.0	12.5	20.5	16.5	18.5
26	7.0	4.5	6.0	18.5	8.0	12.5	14.5	12.0	13.0	20.5	17.5	18.5
27	8.5	5.5	7.5	17.0	6.5	11.0	17.0	10.0	13.5	20.5	16.5	18.5
28	9.5	6.5	8.0	16.0	5.0	10.5	13.5	9.0	11.0	21.0	17.5	19.0
29	---	---	---	13.5	6.0	9.5	9.5	7.5	8.5	19.0	17.0	18.0
30	---	---	---	13.0	5.5	9.0	13.5	7.5	10.0	18.5	15.5	17.0
31	---	---	---	10.5	5.5	7.5	---	---	---	19.0	15.0	17.0
MONTH	9.5	.0	5.1	18.5	3.5	8.6	20.0	1.5	10.3	21.0	9.5	15.9

WALKER LAKE BASIN
10301500 WALKER RIVER NEAR WABUSKA, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.5	16.0	17.0	26.5	20.0	23.0	28.0	18.5	22.5	22.0	13.0	17.0
2	16.0	14.0	15.0	26.0	19.5	22.5	26.5	18.0	21.5	23.0	14.0	18.0
3	14.5	12.0	13.0	24.5	18.0	21.0	27.5	18.5	22.5	22.0	14.0	17.5
4	13.0	12.0	12.5	22.5	18.0	20.0	27.5	18.5	22.0	22.5	12.0	17.0
5	16.0	12.5	14.0	23.5	18.0	20.5	26.0	18.0	21.0	24.0	12.5	17.5
6	18.0	15.0	16.5	25.5	19.0	22.0	20.5	17.5	19.0	24.0	14.5	19.0
7	18.5	15.5	16.5	26.0	19.5	22.5	24.5	16.0	19.5	24.0	15.0	19.5
8	18.0	14.5	16.0	26.0	18.5	22.0	24.0	16.5	20.0	25.0	14.5	19.5
9	17.5	14.5	16.0	27.0	19.0	23.0	25.0	17.0	20.5	24.5	15.0	19.0
10	20.5	15.0	17.5	26.5	19.5	23.0	22.5	17.0	19.5	25.0	14.5	19.0
11	22.0	15.5	18.5	27.0	20.0	23.5	24.5	15.0	19.5	24.5	15.0	19.5
12	21.5	16.5	19.0	28.0	21.0	24.5	25.5	17.0	21.0	24.0	15.0	19.5
13	20.0	17.5	18.5	28.0	22.0	25.0	25.5	17.5	21.0	24.5	15.5	19.5
14	20.5	18.0	19.5	27.5	21.5	24.5	25.0	16.0	20.0	24.5	15.5	19.5
15	19.5	18.0	19.0	27.0	19.0	23.0	25.0	15.5	20.0	24.0	13.5	18.5
16	19.5	17.5	18.5	26.0	18.5	22.0	26.0	15.5	20.5	24.0	14.0	19.0
17	20.0	18.0	19.0	27.0	17.5	22.0	26.5	16.5	21.0	25.0	14.5	19.5
18	20.5	18.5	19.5	27.5	17.5	22.0	25.0	17.5	21.0	20.0	16.5	18.0
19	20.0	18.0	19.5	27.5	18.5	22.0	26.5	17.0	21.5	23.0	14.0	18.0
20	20.5	18.5	19.5	26.0	18.0	21.5	26.0	18.5	22.0	23.8	14.6	18.8
21	20.0	18.0	19.0	26.5	16.5	21.5	26.5	18.5	22.0	23.2	14.6	18.8
22	21.5	19.0	20.0	28.0	17.5	22.5	26.0	18.0	21.5	19.0	15.8	17.5
23	21.5	19.0	20.5	28.0	18.5	22.5	26.5	18.0	21.5	23.5	15.0	18.5
24	21.5	19.5	20.5	26.5	17.0	21.5	26.5	18.5	22.5	24.0	14.5	19.0
25	20.5	18.0	19.5	26.0	16.5	21.0	27.0	18.0	22.0	24.0	15.0	19.0
26	19.5	17.5	19.0	27.5	17.5	22.0	25.0	18.5	21.5	21.5	14.0	17.5
27	20.5	17.5	19.0	---	---	---	25.5	18.0	21.0	19.5	12.0	15.5
28	22.5	18.5	20.5	---	---	---	27.0	17.0	21.5	19.0	10.0	14.0
29	24.0	19.5	21.5	26.5	19.0	22.0	27.0	17.0	21.5	19.5	9.5	14.5
30	26.0	20.0	22.5	27.5	17.5	22.0	23.5	15.0	19.0	21.0	10.5	15.5
31	---	---	---	28.5	19.0	22.5	23.0	12.5	17.0	---	---	---
MONTH	26.0	12.0	18.2	---	---	---	28.0	12.5	20.9	25.0	9.5	18.1

WALKER LAKE BASIN

10301600 WALKER RIVER ABOVE WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°06'12", long 118°55'42", in NW 1/4 SE 1/4 sec.02, T.14 N., R.27 E., Lyon County, Hydrologic Unit 16050303, on left bank, 5.5 mi upstream from Weber Dam, about 11 mi downstream from gage near Wabuska, and 12 mi northwest of Schurz.

DRAINAGE AREA.--2,700 mi², approximately.

PERIOD OF RECORD.--June 1977 to September 1982, June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,215 ft above sea level, from topographic map. Prior to September 1982, at same site at datum 1.0 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 2,000 ft³/s, July 5, 1980, gage height, unknown; maximum gage height, 10.37 ft, January 8, 1997 (different datum); no flow July 16-18, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft³/s, June 17, 18, gage height, 9.53 ft; minimum daily, 20 ft³/s, October 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	153	244	e140	133	301	71	232	565	255	35	39
2	124	189	246	e138	132	301	44	246	667	175	36	42
3	130	173	247	e130	131	298	36	223	771	139	42	55
4	120	156	240	e125	133	293	35	224	864	247	43	56
5	107	141	224	e120	140	278	32	234	834	353	41	47
6	89	132	223	e120	149	273	33	226	684	302	38	45
7	63	127	223	e120	145	251	41	212	626	234	49	51
8	43	117	e210	e120	149	228	48	195	643	188	53	49
9	32	132	e200	e120	163	210	68	241	646	166	69	45
10	27	153	e200	e118	195	200	74	277	540	130	67	43
11	25	164	e200	e110	265	199	68	248	336	161	83	36
12	24	180	201	e102	300	197	56	211	264	180	94	44
13	24	200	206	e100	310	183	43	209	449	175	89	52
14	26	211	208	e100	324	175	35	226	772	148	73	52
15	30	229	202	e102	339	174	40	252	966	124	59	42
16	24	244	194	e105	344	162	48	224	1080	117	55	47
17	20	251	182	108	330	146	62	194	1190	108	52	46
18	31	250	177	108	302	135	88	193	1170	87	39	40
19	49	252	169	107	295	120	184	192	957	75	41	39
20	66	251	156	110	324	116	203	229	921	65	79	49
21	71	250	e130	114	375	125	174	274	950	73	92	49
22	72	249	e100	119	448	127	186	316	854	66	75	61
23	59	253	e90	120	471	107	182	362	841	63	85	56
24	43	252	e75	119	439	79	181	363	830	60	95	54
25	40	249	e78	122	409	55	186	398	784	41	91	45
26	68	243	127	124	384	36	190	445	873	38	67	46
27	83	240	161	120	326	30	172	462	924	40	59	51
28	81	244	167	116	307	34	150	519	814	35	51	53
29	97	245	e160	117	---	46	172	499	602	33	51	51
30	103	248	e158	125	---	68	204	529	375	32	43	45
31	110	---	e150	128	---	79	---	558	---	39	43	---
TOTAL	1995	6178	5548	3627	7762	5026	3106	9213	22792	3949	1889	1430
MEAN	64.4	206	179	117	277	162	104	297	760	127	60.9	47.7
MAX	130	253	247	140	471	301	204	558	1190	353	95	61
MIN	20	117	75	100	131	30	32	192	264	32	35	36
AC-FT	3960	12250	11000	7190	15400	9970	6160	18270	45210	7830	3750	2840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1999, BY WATER YEAR (WY)

	MEAN	48.2	77.2	88.4	205	218	191	198	482	561	337	98.5	74.7
MAX	149	206	182	1146	722	387	563	864	1017	1155	260	236	
(WY)	1981	1999	1996	1997	1997	1996	1982	1997	1995	1995	1980	1980	
MIN	3.39	.032	3.97	6.12	20.0	20.7	40.5	33.9	24.9	20.6	15.0	17.9	
(WY)	1978	1978	1978	1978	1978	1978	1995	1978	1994	1977	1994	1977	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1977 - 1999
ANNUAL TOTAL	116441	72515	
ANNUAL MEAN	319	199	227
HIGHEST ANNUAL MEAN			374
LOWEST ANNUAL MEAN			32.7
HIGHEST DAILY MEAN	1330	Jun 18	1190
LOWEST DAILY MEAN	20	Oct 17	20
ANNUAL SEVEN-DAY MINIMUM	25	Oct 11	25
INSTANTANEOUS PEAK FLOW		1230	Jun 17
INSTANTANEOUS PEAK STAGE		9.53	Jun 17
ANNUAL RUNOFF (AC-FT)	231000	143800	164200
10 PERCENT EXCEEDS	842	421	644
50 PERCENT EXCEEDS	177	133	88
90 PERCENT EXCEEDS	63	41	18

e Estimated

WALKER LAKE BASIN

10301700 WEBER RESERVOIR NEAR SCHURZ, NV

LOCATION.--Lat 39°02'41", long 118°51'33", in NE 1/4 SW 1/4 sec.28, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, approximately 8 miles above Schurz, Nevada.

DRAINAGE AREA.--2,770 mi², approximately.

PERIOD OF RECORD.--April 1995 to June 1996; November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,221 ft above sea level (project datum Bureau of Indian Affairs).

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by Bureau of Indian Affairs (formerly U. S. Indian Service). Construction started September 21, 1933. Storage began July 27, 1934, although it was nearly a year later before the dam was completely finished. Capacity 10,700 acre-ft, with a surface area at 900 acres, determined from Bathymetric Survey by U. S. Geological Survey in 1973. Many diversions for irrigation above reservoir. Flow regulated by Bridgeport Reservoir (station 10292500) and Topaz Lake (station 10297000), combined capacity, 101,900 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 10,600 acre-ft, June 5, 1999, elevation, 4207.93 ft; minimum, 3,040 acre-ft, October 7, 1997, elevation 4196.98.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,600 acre-ft, June 5, elevation 4207.93 ft; minimum, 3,170 acre-ft, December 25 elevation 4197.21 ft.

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

4,181	0	4,200	4,750
4,185	250	4,205	8,200
4,190	850	4,208	10,700
4,195	2,100		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4130	3880	3730	3380	5350	8320	8600	9580	9510	8860	7590	5290
2	4210	4090	3730	3370	5510	8260	8660	9680	9800	8830	7380	5200
3	4290	4250	3720	3360	5680	8270	8700	9740	10200	8780	7250	5140
4	4340	4320	3710	3330	5840	8310	8720	9770	10600	8940	7130	5100
5	4370	4340	3680	3310	6000	8320	8740	9850	10200	9400	7010	5040
6	4390	4330	3630	3300	6170	8330	8790	9920	9360	9700	6890	4980
7	4350	4330	3590	3300	6390	8290	8820	9930	8900	9800	6800	4910
8	4280	4290	3590	3290	6580	8200	8900	9920	9220	9670	6700	4870
9	4180	4270	3610	3280	6770	8090	8980	9970	9630	9510	6640	4800
10	4080	4280	3580	3260	6960	8080	9110	10100	9700	9470	6570	4730
11	3970	4270	3580	3290	7260	8200	9220	10100	9200	9540	6530	4660
12	3860	4290	3560	3380	7570	8340	9290	9950	8300	9650	6510	4600
13	3760	4210	3570	3510	7720	8470	9320	9800	7880	9750	6510	4550
14	3680	4120	3560	3680	7900	8570	9240	9680	8350	9820	6450	4510
15	3610	4070	3560	3880	8050	8660	9160	9760	9170	9820	6360	4470
16	3540	4090	3540	4030	8160	8740	9080	9920	9490	9820	6280	4410
17	3480	4100	3510	4140	8260	8780	9040	10000	9530	9810	6180	4380
18	3430	4120	3480	4260	8210	8820	9040	10100	9640	9750	6060	4330
19	3420	4140	3460	4370	8070	8780	9230	10300	9370	9670	5920	4280
20	3440	4060	3390	4490	8040	8790	9560	10300	9400	9550	5870	4240
21	3470	3950	3300	4600	8070	8790	9680	10200	9740	9420	5870	4220
22	3510	3880	3240	4700	8340	8820	9770	10000	9680	9310	5850	4210
23	3520	3850	3190	4830	8660	8780	9770	10000	9520	9170	5830	4210
24	3500	3820	3180	4930	8860	8710	9720	10100	9460	9040	5830	4210
25	3470	3790	3180	5020	8860	8630	9680	10100	9480	8870	5850	4170
26	3480	3760	3230	5130	8780	8540	9680	10200	9700	8700	5790	4130
27	3530	3730	3300	5200	8600	8420	9610	10100	10000	8540	5750	4100
28	3570	3730	3370	5230	8440	8350	9520	9770	10200	8370	5680	4090
29	3630	3730	3400	5230	---	8340	9480	9450	9930	8180	5590	4070
30	3700	3730	3400	5220	---	8370	9490	9340	9180	7980	5490	4050
31	3770	---	3380	5260	---	8500	---	9410	---	7780	5390	---
MAX	4390	4340	3730	5260	8860	8820	9770	10300	10600	9820	7590	5290
MIN	3420	3730	3180	3260	5350	8080	8600	9340	7880	7780	5390	4050
#	4198.28	4198.21	4197.60	4200.93	4205.30	4205.38	4206.54	4206.46	4206.20	4204.53	4201.14	4198.75
##	-290	-40	-350	+1880	+3180	+60	+990	-80	-230	-1400	-2390	-1340

CAL YR 1998 MAX 10400 MIN 3170 # +230

WTR YR 1999 MAX 10600 MIN 3180 ## -10

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

Change in contents, in acre-feet

WALKER LAKE BASIN

10301742 CANAL NO 2 ABOVE LITTLE DAM NEAR SCHURZ, NV

LOCATION.--Lat 39°00'51", long 118°51'36", in SE 1/4 SW 1/4 sec.04, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on right bank, about 2 mi downstream from Weber Dam, and about 5 mi northwest of Schurz.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1995 to June 1996, November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,160 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow regulated by control gate on Walker River and many diversions above station. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 89 ft³/s, April 26, 1997; no flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	.68	.03	.00	.02	.03	.03	44	35	58	44	31
2	39	.60	.03	.00	.02	.03	.03	43	34	52	43	40
3	39	.56	.04	.00	.01	.03	.03	42	34	39	43	42
4	38	.51	.03	.00	.01	.03	.03	40	33	36	43	40
5	36	.45	.03	.00	.01	.03	.03	40	33	41	44	39
6	35	.46	.03	.00	.02	.02	.03	42	31	49	44	37
7	32	.46	.03	.00	.03	.02	.03	45	28	52	43	34
8	30	.46	.03	.00	.03	.03	.03	44	43	53	43	34
9	29	.50	.03	.00	.04	.03	.03	41	48	52	44	34
10	29	.45	.03	.00	.03	.03	.03	38	48	50	44	36
11	26	.45	.03	.00	.03	.03	.03	39	49	54	44	34
12	25	.50	.10	.00	.03	.03	.03	39	47	53	43	33
13	24	.47	.11	.00	.03	.03	.03	42	46	49	43	33
14	24	.45	.10	.00	.03	.03	.03	46	46	45	42	33
15	24	.45	.10	.00	.07	.03	.08	47	47	45	41	33
16	21	.49	.10	.00	.08	.03	.09	46	51	45	41	29
17	11	.47	.06	.00	.06	.01	.10	47	53	45	41	28
18	6.2	.56	.03	.00	.07	.00	.13	50	53	46	41	28
19	2.7	.69	.03	.00	.10	.00	31	51	53	45	40	28
20	3.4	.63	.03	.00	.10	.03	41	55	51	49	42	28
21	3.1	.51	.03	.00	.10	.03	41	61	50	55	43	28
22	3.0	.45	.00	.00	.09	.03	41	63	49	55	40	33
23	3.2	.45	.00	.00	.06	.03	41	64	48	54	38	34
24	3.0	.36	.00	.00	.06	.03	42	59	48	51	38	32
25	2.4	.28	.00	.01	.08	.03	42	51	46	45	38	29
26	2.0	.18	.00	.01	.08	.03	43	52	46	42	38	28
27	1.6	.18	.00	.01	.06	.03	42	50	47	42	40	27
28	1.6	.18	.00	.01	.03	.03	45	49	55	47	45	27
29	1.4	.23	.00	.01	---	.03	45	50	58	45	42	27
30	.94	.09	.00	.01	---	.03	45	44	60	44	32	27
31	.89	---	.00	.01	---	.03	---	35	---	43	31	---
TOTAL	537.43	13.20	1.03	0.07	1.38	0.83	499.82	1459	1370	1481	1278	966
MEAN	17.3	.44	.033	.002	.049	.027	16.7	47.1	45.7	47.8	41.2	32.2
MAX	40	.69	.11	.01	.10	.03	45	64	60	58	45	42
MIN	.89	.09	.00	.00	.01	.00	.03	35	28	36	31	27
AC-FT	1070	26	2.0	.1	2.7	1.6	991	2890	2720	2940	2530	1920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

MEAN	16.5	1.41	.20	.032	.019	.026	21.1	40.0	36.6	46.0	45.2	38.7
MAX	17.3	3.40	.58	.078	.049	.040	30.7	47.1	45.7	52.7	54.3	45.9
(WY)	1999	1998	1998	1997	1999	1998	1996	1999	1999	1998	1998	1998
MIN	15.9	.39	.000	.000	.003	.010	15.4	29.7	27.6	36.4	40.7	32.2
(WY)	1998	1996	1996	1996	1998	1996	1998	1995	1998	1995	1995	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1995 - 1999		
ANNUAL TOTAL	7593.35			7607.76					
ANNUAL MEAN	20.8			20.8			20.9		
HIGHEST ANNUAL MEAN							21.0		
LOWEST ANNUAL MEAN							20.8		
HIGHEST DAILY MEAN	68 Aug 19			64 May 23			89 Apr 26 1997		
LOWEST DAILY MEAN	.00 Feb 4			.00 Dec 22			.00 Nov 22 1995		
ANNUAL SEVEN-DAY MINIMUM	.00 Feb 4			.00 Dec 22			.00 Nov 22 1995		
ANNUAL RUNOFF (AC-FT)	15060			15090			15150		
10 PERCENT EXCEEDS	53			49			49		
50 PERCENT EXCEEDS	1.4			6.2			21		
90 PERCENT EXCEEDS	.00			.01			.00		

WALKER LAKE BASIN

10301745 WALKER RIVER ABOVE LITTLE DAM NEAR SCHURZ, NV

LOCATION.--Lat 39°00'49", long 118°51'36", in SE 1/4 SW 1/4 sec.04, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on left bank, about 2 mi downstream from Weber Dam, and about 5 mi northwest of Schurz.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--April 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,160 ft above sea level, from topographic map.

REMARKS.--Records good. Flow regulated by Bridgeport Reservoir (station 10292500), Topaz Lake (station 10297000) and Weber Reservoir (station 10301700), combined capacity, 112,600 acre-ft. There are two diversions (10301742 and 10301755) from the gage pool. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,310 ft³/s, July 14, 1995, gage height, 8.39 ft; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,270 ft³/s, June 5, gage height, 7.23 ft; minimum daily, 4.5 ft³/s, September 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	115	286	171	149	438	41	143	532	398	40	35
2	51	126	288	168	106	405	39	151	528	128	29	20
3	53	135	290	165	95	355	38	151	547	106	21	17
4	51	147	288	156	101	324	38	169	650	103	20	6.3
5	59	150	281	148	103	324	38	176	1110	96	18	5.2
6	61	152	276	141	109	324	39	169	1220	88	24	41
7	64	152	261	141	115	324	39	156	938	96	29	37
8	64	152	258	138	121	323	38	167	454	139	35	26
9	60	152	258	135	126	303	36	194	424	161	29	20
10	58	165	256	132	128	250	36	225	504	66	28	10
11	55	181	251	120	133	176	36	268	571	20	27	11
12	52	181	250	92	232	139	53	291	730	35	22	12
13	48	249	245	76	328	139	74	285	566	41	15	13
14	43	279	249	69	334	139	88	275	467	44	12	12
15	43	270	246	80	355	141	113	203	474	46	24	15
16	57	268	241	90	366	143	126	120	851	58	28	18
17	64	274	233	98	371	144	125	87	1200	76	29	38
18	66	278	223	105	404	145	114	64	1190	76	21	38
19	71	280	211	103	421	146	70	45	1160	43	16	37
20	76	322	191	100	420	147	58	124	870	28	19	34
21	81	334	160	104	422	148	100	294	734	28	30	23
22	84	318	137	109	410	148	139	314	876	22	52	16
23	87	307	119	114	406	151	173	321	856	30	59	16
24	91	302	107	117	442	151	195	331	835	49	43	4.5
25	97	297	105	121	499	132	198	350	732	67	38	11
26	93	293	111	125	526	118	198	388	719	63	32	16
27	91	288	130	130	524	116	199	511	737	51	26	17
28	93	283	159	158	479	88	168	698	708	42	17	14
29	99	283	174	190	---	65	153	709	742	40	18	8.9
30	102	276	177	190	---	60	142	615	739	38	36	7.5
31	108	---	178	193	---	42	---	560	---	40	36	---
TOTAL	2166	7009	6639	3979	8225	6048	2904	8554	22664	2318	873	579.4
MEAN	69.9	234	214	128	294	195	96.8	276	755	74.8	28.2	19.3
MAX	108	334	290	193	526	438	199	709	1220	398	59	41
MIN	43	115	105	69	95	42	36	45	424	20	12	4.5
AC-FT	4300	13900	13170	7890	16310	12000	5760	16970	44950	4600	1730	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999
MEAN	41.5	124	165	460	431
MAX	69.9	234	228	1421	867
(WY)	1999	1999	1996	1997	1996
MIN	13.3	74.0	94.5	107	101
(WY)	1997	1997	1998	1998	1999

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1995 - 1999

ANNUAL TOTAL	122674	71958.4	
ANNUAL MEAN	336	197	289
HIGHEST ANNUAL MEAN			394
LOWEST ANNUAL MEAN			197
HIGHEST DAILY MEAN	1700	Jun 20	2170
LOWEST DAILY MEAN	24	Feb 6	.00
ANNUAL SEVEN-DAY MINIMUM	32	Sep 24	.00
INSTANTANEOUS PEAK FLOW			2310
INSTANTANEOUS PEAK STAGE			8.39
ANNUAL RUNOFF (AC-FT)	243300	142700	209500
10 PERCENT EXCEEDS	958	470	1020
50 PERCENT EXCEEDS	165	128	128
90 PERCENT EXCEEDS	66	24	12

WALKER LAKE BASIN

10301755 CANAL NO 1 BELOW LITTLE DAM NEAR SCHURZ, NV

LOCATION.--Lat 39°00'45", long 118°51'37", in SE 1/4 SW 1/4 sec.04, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on left bank, about 2 mi downstream from Weber Dam, and about 5 mi northwest of Schurz.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1995 to June 1996, November 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,160 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow regulated by control gate on Walker River. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 55 ft³/s, July 15, 1998, no flow many days, most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	.08	.04	.02	.00	.00	.11	40	19	45	33	21
2	11	.09	e.05	.02	.00	.00	.11	37	17	32	41	20
3	10	.10	.05	.03	.00	.00	.13	38	18	20	46	20
4	14	.06	.05	e.00	.00	.00	.13	28	6.6	2.6	46	33
5	10	.03	.05	e.00	.00	.00	.13	25	.69	.71	46	33
6	9.8	.05	.05	e.00	.00	.00	.15	28	.70	33	39	6.1
7	9.8	.04	.05	e.00	.00	.00	.16	32	8.1	48	33	11
8	9.9	.05	.05	e.00	.00	.00	.16	28	17	49	24	21
9	9.9	.05	.05	e.00	.00	.00	.17	19	17	46	29	21
10	10	.06	.05	e.00	.00	.00	.19	19	4.9	35	30	24
11	10	.08	.05	e.00	.00	.00	.19	23	15	33	30	24
12	10	.08	.05	e.00	.00	.00	.20	24	.64	23	32	19
13	10	.09	.05	.01	.00	.00	.24	24	5.9	26	40	19
14	15	.08	.05	.01	.00	.00	.25	24	17	33	41	19
15	13	.08	.05	.02	.00	.00	.25	24	24	30	28	19
16	.16	.09	.05	.02	.00	.00	.27	28	23	19	24	19
17	.15	.07	.05	.00	.01	.00	.29	35	22	.63	22	7.3
18	.13	.06	.05	.00	.02	.00	.29	37	44	.62	28	.11
19	.11	.06	.03	.01	.02	.00	.29	39	49	29	30	.08
20	.11	.05	.03	.02	.02	.02	.32	43	46	42	23	.06
21	.11	.05	.02	.02	.02	.02	.33	47	38	42	13	9.0
22	.09	.05	e.00	.02	.02	.02	.33	46	39	42	.02	13
23	.10	.05	e.00	.00	.02	.03	6.8	43	49	35	.00	17
24	.10	.05	e.00	.00	.02	.05	5.6	43	49	25	12	26
25	.13	.05	e.00	.00	.02	.05	.40	40	34	19	17	27
26	.13	.05	e.00	.00	.02	.05	.38	35	7.1	24	23	18
27	.12	.05	e.00	.00	.00	.08	.42	36	.86	32	25	17
28	.11	.05	e.00	.00	.00	.08	17	21	29	32	25	19
29	.11	.05	.02	.00	---	.08	28	.55	51	35	25	24
30	.07	.03	.03	.00	---	.09	38	.55	51	37	22	25
31	.08	---	.02	.00	---	.11	---	5.8	---	36	21	---
TOTAL	168.21	1.83	1.04	0.20	0.19	0.68	101.29	912.90	703.49	906.56	848.02	531.65
MEAN	5.43	.061	.034	.006	.007	.022	3.38	29.4	23.4	29.2	27.4	17.7
MAX	15	.10	.05	.03	.02	.11	38	47	51	49	46	33
MIN	.07	.03	.00	.00	.00	.00	.11	.55	.64	.62	.00	.06
AC-FT	334	3.6	2.1	.4	.4	1.3	201	1810	1400	1800	1680	1050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999
MEAN	6.04	.027	1.46	.57	.004
MAX	7.40	.061	5.81	2.26	.010
(WY)	1996	1999	1997	1996	1999
MIN	5.29	.010	.000	.002	.000
(WY)	1998	1998	1996	1996	1997

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1995 - 1999

	1998	1999	1995-1999
ANNUAL TOTAL	3981.69	4176.06	
ANNUAL MEAN	10.9	11.4	11.2
HIGHEST ANNUAL MEAN			11.4
LOWEST ANNUAL MEAN			10.9
HIGHEST DAILY MEAN	55	51	55
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
ANNUAL RUNOFF (AC-FT)	7900	8280	8090
10 PERCENT EXCEEDS	36	36	35
50 PERCENT EXCEEDS	.12	.19	5.6
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

WALKER LAKE BASIN

10301900 CANAL 2 END OF LINED DITCH BELOW SCHURZ, NV

LOCATION.--Lat 38°55'20", long 118°45'15", in SE 1/4 NE 1/4 sec.20, T.12 N., R.29 E., Mineral County, Hydrologic Unit 16050303, on right bank, 5.5 mi southeast of Schurz.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,070 ft above sea level, from topographic map.

REMARKS.--Records fair. Flow regulated by control gate on Walker River and many diversions above station. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 40 ft³/s, May 31, 1998; no flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	.15	.00	.00	.00	e.00	.00	5.8	15	.81	10	2.0
2	23	.00	.00	.00	.00	e.00	.00	16	19	5.5	8.3	.93
3	21	.00	.00	.00	.00	e.00	.00	21	14	13	11	.62
4	22	.00	.00	.00	.00	e.00	.00	16	19	16	7.7	2.3
5	23	.00	.00	.00	.00	e.00	.00	18	19	8.7	13	2.9
6	20	.00	.00	.00	.00	e.00	.00	17	18	11	2.7	1.6
7	19	.00	.00	.00	.00	e.00	.00	13	15	7.6	3.0	.00
8	13	.00	.00	.00	.00	e.00	.00	11	15	2.7	9.5	5.7
9	15	.00	.00	.00	.00	e.00	.00	14	16	5.4	8.1	15
10	11	.00	.00	.00	.00	e.00	.00	22	17	4.4	18	16
11	12	.07	.00	.00	.00	e.00	.00	22	22	5.7	17	24
12	9.6	.21	.00	.00	.00	e.00	.00	20	22	8.5	18	14
13	5.5	.15	.00	.00	.00	e.00	.00	21	19	14	19	16
14	9.0	.07	.00	.00	.00	e.00	.00	17	21	23	13	16
15	9.3	.00	.00	.00	.00	e.00	.00	16	25	18	16	14
16	16	.00	.00	.00	.00	.00	.00	11	25	21	10	25
17	2.9	.00	.00	.00	.00	.00	.00	13	11	19	19	21
18	6.6	.00	.00	.00	.00	.00	.00	12	4.7	24	13	24
19	.05	.00	.00	.00	.00	.00	11	10	7.5	19	5.5	20
20	1.9	.00	.00	.00	.00	.00	28	7.9	3.1	5.5	.13	11
21	1.6	.00	.00	.00	.00	.00	25	.01	11	8.1	1.4	15
22	1.6	.00	.00	.00	.00	.00	23	1.6	8.6	5.0	2.0	14
23	1.6	.00	.00	.00	.00	.00	21	19	5.3	11	.14	8.1
24	2.0	.00	.00	.00	.00	.00	21	20	5.8	8.1	.07	12
25	1.6	.00	.00	.00	.00	.00	21	27	7.2	13	.00	13
26	1.2	.00	.00	.00	e.00	.00	18	25	8.2	12	.24	6.5
27	.79	.00	.00	.00	e.00	.00	17	22	10	11	7.3	6.2
28	.67	.00	.00	.00	e.00	.00	14	24	5.9	7.2	5.5	2.8
29	.62	.00	.00	.00	---	.00	10	24	3.2	18	5.8	5.5
30	.44	.00	.00	.00	---	.00	4.3	25	8.9	12	4.9	5.6
31	.16	---	.00	.00	---	.00	---	15	---	4.6	2.0	---
TOTAL	277.13	0.65	0.00	0.00	0.00	0.00	213.30	506.31	401.4	342.81	251.28	320.75
MEAN	8.94	.022	.000	.000	.000	.000	7.11	16.3	13.4	11.1	8.11	10.7
MAX	25	.21	.00	.00	.00	.00	28	27	25	24	19	25
MIN	.05	.00	.00	.00	.00	.00	.00	.01	3.1	.81	.00	.00
AC-FT	550	1.3	.00	.00	.00	.00	423	1000	796	680	498	636

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

MEAN	8.94	.022	.000	.000	.000	.000	4.62	14.3	11.6	11.1	10.4	14.4
MAX	8.94	.022	.000	.000	.000	.000	7.11	16.3	13.4	11.2	12.6	18.0
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1998	1998
MIN	8.94	.022	.000	.000	.000	.000	2.13	12.2	9.72	11.1	8.11	10.7
(WY)	1999	1999	1999	1999	1999	1999	1998	1998	1998	1999	1999	1999

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL	2313.63											
ANNUAL MEAN	6.34									6.34		
HIGHEST ANNUAL MEAN										6.34		1999
LOWEST ANNUAL MEAN										6.34		1999
HIGHEST DAILY MEAN	28	Apr 20							40		May 31	1998
LOWEST DAILY MEAN	.00	Nov 2							.00		Mar 19	1998
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 2							.00		Mar 19	1998
ANNUAL RUNOFF (AC-FT)	4590								4590			
10 PERCENT EXCEEDS	20								21			
50 PERCENT EXCEEDS	.79								5.5			
90 PERCENT EXCEEDS	.00								.00			

e Estimated

WALKER LAKE BASIN

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV

LOCATION.--Lat 38°56'25", long 118°48'10", in SE 1/4 SW 1/4 sec.36, T.13 N., R.28 E., Mineral County, Hydrologic Unit 16050303, on right bank, 0.4 mi east of U.S. Highway 95 and U.S. Alternate Highway 95 Junction, and 0.9 mi southeast of U.S. Highway 95 Highway Bridge in Schurz.

DRAINAGE AREA.-- Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,140 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above station. Flow regulated by Bridgeport Reservoir (station 10292500), Topaz Lake (station 10297000), and Weber Reservoir (station 10301700), combined capacity, 112,600 acre-ft. See schematic diagram of Walker Lake Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft³/s, January 9, 1997, gage height, 7.39 ft, maximum gage height, 7.82 ft, July 16, 1995; no flow many days, 1994 and 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft³/s, June 6, gage height, 5.64 ft; minimum daily, 11 ft³/s, September 24, 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	106	267	155	e120	384	54	117	493	460	52	54
2	66	113	266	152	90	359	52	129	496	151	45	48
3	67	123	267	150	75	318	51	130	509	123	33	38
4	63	127	264	145	75	284	50	148	580	101	31	26
5	74	143	261	136	75	284	48	151	941	97	36	14
6	78	147	256	131	77	286	49	140	1120	90	37	32
7	80	147	242	129	78	287	47	136	994	100	46	44
8	82	147	238	127	79	286	46	142	497	118	48	33
9	80	146	236	124	82	276	43	154	423	150	54	26
10	77	151	236	121	81	239	42	168	481	99	52	26
11	74	171	228	116	83	183	41	205	537	47	50	23
12	67	172	228	94	125	141	43	225	762	50	45	29
13	58	211	225	80	246	141	61	216	574	56	35	25
14	55	260	226	e70	252	142	65	215	481	53	23	22
15	54	255	224	e80	274	143	83	187	411	53	32	25
16	56	254	220	e90	303	144	96	129	767	66	43	25
17	66	257	215	e98	309	143	97	94	1100	68	44	38
18	62	261	206	e105	329	143	95	85	1100	69	34	50
19	70	264	198	e103	348	144	73	60	1100	58	27	49
20	73	290	e180	e100	345	145	52	80	900	38	34	46
21	75	318	e150	e104	347	145	65	220	739	41	33	43
22	78	304	e130	e109	341	145	105	266	852	37	56	27
23	80	294	e115	e114	333	145	124	272	844	57	63	19
24	84	287	e105	e117	359	146	153	276	835	57	58	11
25	86	284	105	e121	418	138	161	290	765	74	44	11
26	83	280	108	e125	463	120	163	319	724	70	43	20
27	84	275	120	e130	463	118	163	406	737	55	46	25
28	88	271	139	e158	434	106	157	638	725	48	35	24
29	92	269	156	e180	---	77	142	663	731	45	35	22
30	96	261	161	e180	---	74	125	596	739	48	62	12
31	101	---	162	e180	---	58	---	513	---	42	55	---
TOTAL	2309	6588	6134	3824	6604	5744	2546	7370	21957	2621	1331	887
MEAN	74.5	220	198	123	236	185	84.9	238	732	84.5	42.9	29.6
MAX	101	318	267	180	463	384	163	663	1120	460	63	54
MIN	54	106	105	70	75	58	41	60	411	37	23	11
AC-FT	4580	13070	12170	7580	13100	11390	5050	14620	43550	5200	2640	1760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1999, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999
MEAN	34.7	92.5	125	393	343
MAX	74.5	220	198	1557	914
(WY)	1999	1999	1999	1997	1996
MIN	.000	.000	.000	.000	.000
(WY)	1995	1995	1995	1995	1995

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1995 - 1999

	1998	1999	1995-1999
ANNUAL TOTAL	118635	67915	
ANNUAL MEAN	325	186	297
HIGHEST ANNUAL MEAN			431
LOWEST ANNUAL MEAN			186
HIGHEST DAILY MEAN	1650	Jun 20	2300
LOWEST DAILY MEAN	21	Feb 6	.00
ANNUAL SEVEN-DAY MINIMUM	50	Sep 25	.00
INSTANTANEOUS PEAK FLOW			2400
INSTANTANEOUS PEAK STAGE		5.64 Jun 6	7.82 Jul 16 1995
ANNUAL RUNOFF (AC-FT)	235300	134700	215100
10 PERCENT EXCEEDS	927	427	964
50 PERCENT EXCEEDS	173	120	104
90 PERCENT EXCEEDS	74	38	.00

e Estimated

WALKER LAKE BASIN

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November and December 1993, May to June 1996, November 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1995 to June 1996 (seasonal), November 1996 to current year.

WATER TEMPERATURE: May 1995 to June 1996 (seasonal), November 1996 to current year.

INSTRUMENTATION.--Specific conductance and water temperature monitor May 1995 to June 1996, November 1996 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 720 microsiemens, August 28, 1997; minimum daily, 143 microsiemens, May 12, 1998.

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 31, 1999; minimum daily, freezing point several days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 664 microsiemens, August 2; minimum, 162 microsiemens, June 25.

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 31; minimum daily, freezing point several days in December.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	417	397	407	490	481	486	342	339	340	419	414	417
2	411	395	403	490	486	488	341	338	339	419	416	417
3	414	401	405	495	485	491	341	337	339	419	415	418
4	421	410	413	495	474	483	340	336	338	418	415	416
5	416	402	409	477	473	475	340	336	338	418	410	414
6	416	406	411	477	471	474	339	335	337	415	410	413
7	423	411	417	477	471	474	339	335	337	418	411	414
8	422	415	418	473	465	468	339	336	337	419	412	416
9	426	418	421	469	462	466	339	336	337	424	415	420
10	431	421	426	466	460	463	340	336	338	427	420	423
11	434	426	429	463	453	457	342	339	340	436	424	429
12	442	428	435	456	452	454	348	341	344	447	432	439
13	446	438	441	454	437	449	351	346	348	447	443	445
14	454	443	448	439	427	432	353	350	351	---	---	---
15	461	445	454	430	427	428	354	351	353	---	---	---
16	457	443	448	430	426	428	357	353	355	---	---	---
17	453	431	441	429	424	427	359	356	357	---	---	---
18	453	436	445	426	418	421	361	358	359	---	---	---
19	445	437	441	419	398	407	363	360	361	---	---	---
20	445	438	442	403	395	399	365	361	363	---	---	---
21	447	439	444	398	384	392	370	363	366	---	---	---
22	450	443	447	385	375	379	374	368	371	---	---	---
23	451	446	449	376	366	370	384	372	377	---	---	---
24	462	450	457	367	359	361	386	377	381	---	---	---
25	473	458	467	360	352	357	386	380	383	---	---	---
26	475	469	471	354	348	350	389	384	387	---	---	---
27	478	472	476	349	345	347	391	387	390	---	---	---
28	480	473	476	347	343	345	395	390	392	---	---	---
29	483	474	478	345	342	343	405	394	400	---	---	---
30	481	474	478	343	339	341	412	403	408	---	---	---
31	484	477	481	---	---	---	418	410	414	---	---	---
MONTH	484	395	441	495	339	422	418	335	361	---	---	---

WALKER LAKE BASIN

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	315	310	312	399	393	397	399	388	394
2	440	429	434	311	302	305	403	394	398	394	387	389
3	446	438	441	307	303	305	397	391	393	393	388	390
4	447	438	441	306	299	303	405	389	396	397	384	392
5	447	438	443	303	296	299	400	388	396	400	389	394
6	452	440	443	300	298	299	395	378	385	411	392	400
7	449	439	445	300	297	299	393	382	388	430	404	415
8	455	439	447	300	297	298	399	389	394	434	395	407
9	448	436	440	303	298	300	407	391	398	401	388	395
10	448	437	444	308	301	303	404	396	400	406	387	397
11	451	445	447	315	306	308	415	396	405	434	394	414
12	459	434	445	317	313	315	415	392	405	473	426	449
13	435	423	430	316	314	315	394	379	386	494	463	476
14	427	421	425	323	315	319	389	370	380	488	469	476
15	426	421	423	325	322	323	379	363	370	469	409	449
16	423	417	420	328	322	325	379	362	370	412	393	403
17	423	415	420	333	325	329	383	367	375	441	410	421
18	421	415	417	337	329	332	391	373	380	434	406	419
19	418	406	413	335	329	332	407	380	393	458	426	439
20	406	385	393	339	332	335	412	392	400	471	449	459
21	392	385	388	339	331	335	404	386	396	468	408	442
22	389	380	383	348	334	339	393	375	384	408	363	382
23	382	359	371	352	341	346	392	378	384	364	335	349
24	364	351	358	359	347	353	393	383	387	336	324	330
25	359	343	350	365	351	357	400	386	392	328	319	323
26	347	340	343	372	361	365	399	388	395	321	308	314
27	344	327	336	382	363	371	407	388	397	322	304	311
28	333	313	320	394	377	383	404	395	399	306	273	296
29	---	---	---	399	387	392	398	388	393	273	227	244
30	---	---	---	390	380	384	398	388	394	231	218	226
31	---	---	---	399	380	393	---	---	---	225	212	217
MONTH	---	---	---	399	296	331	415	362	391	494	212	381
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	214	209	211	192	164	173	545	294	320	356	332	342
2	212	204	209	215	192	204	664	418	513	359	332	349
3	207	200	203	220	199	211	450	394	424	463	311	376
4	203	197	200	226	218	222	510	362	402	468	338	406
5	198	187	194	225	212	218	510	383	438	597	433	535
6	189	181	186	245	216	225	384	305	371	590	388	452
7	185	177	180	220	207	214	360	308	339	416	382	395
8	191	180	185	224	195	213	333	306	317	435	400	421
9	188	179	183	210	195	201	336	302	315	438	426	431
10	188	178	182	271	204	227	331	316	321	448	428	435
11	188	179	183	327	270	302	339	314	326	519	425	469
12	184	178	181	325	258	286	345	324	333	534	425	450
13	189	178	184	276	244	258	418	328	356	479	446	463
14	191	179	184	282	258	273	430	360	405	---	---	---
15	190	181	184	276	239	262	430	346	375	---	---	---
16	190	181	185	273	226	242	373	322	348	---	---	---
17	185	177	181	254	231	238	365	325	348	---	---	---
18	179	172	176	242	231	234	385	361	368	---	---	---
19	176	169	172	300	229	252	412	382	397	---	---	---
20	179	169	173	304	275	294	418	357	383	---	---	---
21	182	171	176	296	253	279	398	375	386	---	---	---
22	180	169	173	312	288	300	---	---	---	---	---	---
23	175	168	171	309	260	281	---	---	---	---	---	---
24	174	166	171	267	243	260	---	---	---	483	428	461
25	172	162	167	244	224	233	377	361	369	509	400	478
26	172	165	168	242	222	231	398	370	379	496	391	428
27	174	165	169	259	237	246	390	368	379	---	---	---
28	174	167	171	266	245	253	441	367	400	---	---	---
29	175	168	171	297	256	272	444	372	415	519	445	479
30	170	164	167	311	271	292	380	342	355	590	476	541
31	---	---	---	314	286	304	360	329	341	---	---	---
MONTH	214	162	181	327	164	248	---	---	---	---	---	---

WALKER LAKE BASIN

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.5	13.5	16.0	11.0	9.0	10.0	7.5	6.0	6.5	4.0	1.5	3.0
2	19.0	14.0	16.5	10.5	7.5	9.0	7.5	5.0	6.0	4.0	1.5	2.5
3	17.0	13.0	15.0	11.0	8.0	9.5	7.0	5.0	6.0	3.5	1.0	2.5
4	17.5	12.0	14.5	10.0	7.5	8.5	6.0	4.5	5.0	3.5	1.0	2.5
5	17.0	11.5	14.0	9.0	7.0	8.0	5.0	3.5	4.5	4.0	1.0	2.5
6	16.5	11.5	14.0	8.5	6.5	7.5	5.0	3.0	4.0	4.0	1.5	3.0
7	17.0	11.5	14.0	9.5	6.5	8.0	3.5	2.0	3.0	4.0	2.0	3.0
8	17.0	11.5	14.0	8.5	6.5	7.5	4.0	2.5	3.0	4.0	1.5	3.0
9	17.0	11.5	14.0	8.0	6.0	7.0	3.5	1.5	2.5	4.0	1.5	3.0
10	16.5	11.5	14.0	7.5	6.0	6.5	3.0	1.0	2.0	4.5	1.5	3.0
11	16.0	10.5	13.5	7.0	6.0	6.5	3.5	1.5	2.5	4.5	2.0	3.0
12	15.0	11.0	13.0	8.0	5.0	6.5	3.5	2.0	3.0	5.5	2.0	3.5
13	16.5	11.0	13.5	7.5	4.5	6.0	4.5	2.0	3.0	---	---	---
14	16.0	11.0	13.5	7.5	5.0	6.0	4.0	3.0	3.5	---	---	---
15	14.5	11.0	12.5	7.0	4.5	6.0	4.0	2.0	3.0	---	---	---
16	13.0	10.0	11.0	7.0	4.5	5.5	3.5	1.5	2.5	---	---	---
17	13.0	8.0	10.5	7.0	5.0	5.5	4.0	1.5	2.5	---	---	---
18	13.0	8.0	10.5	6.5	4.5	5.5	4.0	1.5	2.5	---	---	---
19	13.5	8.5	11.0	6.5	4.0	5.0	3.0	1.5	2.0	---	---	---
20	13.5	9.5	11.0	6.0	4.0	5.0	2.5	1.0	1.5	---	---	---
21	14.0	9.5	11.5	7.0	4.5	5.5	1.5	.0	.5	---	---	---
22	14.0	10.5	12.0	7.0	5.5	6.0	1.5	.0	.5	---	---	---
23	13.5	9.5	11.5	7.5	5.0	6.5	.5	.0	.0	---	---	---
24	11.5	10.0	11.0	7.0	5.5	6.5	1.5	.0	.5	---	---	---
25	11.0	9.0	10.0	7.5	5.5	6.0	3.0	.0	1.5	---	---	---
26	13.0	9.5	11.0	7.5	5.0	6.0	4.0	2.0	3.0	---	---	---
27	13.0	9.5	11.0	7.0	5.5	6.5	4.5	2.0	3.5	---	---	---
28	12.5	10.0	11.0	7.5	6.0	6.5	5.5	3.0	4.0	---	---	---
29	11.0	9.0	10.0	7.5	6.0	6.5	4.5	2.0	3.5	---	---	---
30	11.0	8.0	9.5	7.5	5.5	6.5	4.0	2.0	3.0	---	---	---
31	10.5	7.0	9.0	---	---	---	5.0	3.0	4.0	---	---	---
MONTH	19.5	7.0	12.4	11.0	4.0	6.7	7.5	.0	3.0	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	9.5	6.0	7.0	10.5	4.0	7.0	17.5	10.0	13.5
2	5.0	1.5	3.5	9.5	5.5	7.5	10.5	5.0	7.5	13.0	10.5	11.5
3	6.5	2.5	4.0	10.5	6.5	8.0	7.0	5.0	6.0	16.0	9.5	12.5
4	6.5	3.0	4.5	9.5	5.5	7.5	13.5	3.5	8.0	17.0	8.5	12.5
5	7.0	3.5	5.0	9.0	5.5	7.0	10.0	6.0	8.0	18.0	10.0	14.0
6	5.5	4.0	4.5	9.0	5.0	7.0	10.5	4.0	7.5	19.5	10.0	15.0
7	6.5	3.5	5.0	9.5	6.0	7.5	12.0	6.5	8.5	20.0	11.5	15.5
8	6.5	4.0	5.0	9.5	6.0	7.5	12.0	5.5	8.0	19.5	11.5	15.0
9	6.0	2.5	4.5	9.0	6.0	7.0	12.5	3.0	7.0	18.5	11.5	15.0
10	5.0	.5	2.5	9.0	5.0	7.0	11.0	4.0	7.5	18.5	11.5	15.0
11	5.0	1.0	2.5	10.0	6.5	8.0	16.5	7.0	11.0	20.5	13.0	16.5
12	5.5	1.5	3.5	10.5	4.5	7.5	16.5	7.0	12.0	21.0	15.0	17.5
13	5.0	3.0	4.0	9.5	5.0	7.5	17.5	8.0	12.5	20.0	14.0	17.0
14	4.5	2.5	3.5	10.5	5.0	7.5	18.0	9.5	13.0	19.5	13.0	16.0
15	6.0	2.0	4.0	9.5	5.5	7.5	17.0	9.5	12.5	19.5	12.5	15.5
16	5.5	3.5	4.5	11.5	5.0	8.0	16.5	10.0	13.0	21.0	12.5	16.5
17	6.5	4.0	5.0	12.5	6.0	9.0	16.5	11.0	13.5	23.0	13.0	17.5
18	7.0	4.0	5.0	13.0	7.0	10.0	18.5	11.0	14.5	21.0	14.5	17.5
19	6.5	3.5	4.5	10.5	6.5	8.5	18.5	12.5	15.0	24.5	13.5	18.5
20	5.5	3.0	4.5	9.5	7.0	8.0	21.0	13.0	16.5	24.0	15.0	19.0
21	6.0	3.5	4.5	12.0	5.0	8.5	18.5	12.5	15.0	23.0	16.0	19.5
22	6.5	3.0	4.5	12.5	6.0	9.5	14.5	11.5	13.0	23.0	16.5	19.5
23	7.0	3.5	5.0	13.0	7.0	10.0	13.0	10.0	11.5	22.0	16.0	19.0
24	7.5	3.5	5.5	13.5	7.0	10.0	14.5	10.5	12.5	22.5	17.0	19.5
25	7.0	4.5	5.5	14.0	7.5	10.5	16.5	10.5	13.5	23.5	17.0	20.0
26	7.5	4.0	5.5	15.0	8.5	11.5	15.0	11.5	13.5	23.0	19.0	20.5
27	8.0	5.0	6.5	15.0	8.0	11.0	17.5	11.0	14.0	23.5	18.0	21.0
28	8.5	4.5	6.5	14.5	7.5	11.0	13.5	10.5	12.0	23.5	20.0	21.5
29	---	---	---	13.5	7.5	10.5	11.0	9.5	10.5	22.5	19.5	21.0
30	---	---	---	13.5	6.5	9.5	14.5	9.5	11.5	23.5	19.0	21.0
31	---	---	---	10.0	6.0	8.0	---	---	---	23.5	18.5	21.0
MONTH	---	---	---	15.0	4.5	8.5	21.0	3.0	11.2	24.5	8.5	17.2

WALKER LAKE BASIN

10302002 WALKER RIVER AT LATERAL 2-A SIPHON NEAR SCHURZ, NV--Continued

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	22.0	19.0	20.5	27.0	22.0	24.0	29.0	20.0	24.0	23.5	15.5	19.0
2	19.5	17.0	18.5	27.5	20.5	23.5	25.5	21.0	23.0	24.0	16.5	19.5
3	18.0	16.0	17.0	27.0	20.0	23.0	24.5	18.5	21.5	24.0	16.0	19.0
4	17.5	15.5	16.5	26.0	19.0	22.5	25.0	19.0	22.0	24.0	13.5	18.5
5	18.5	16.0	17.0	27.5	19.0	23.0	24.0	19.0	21.0	24.5	13.5	18.5
6	18.5	16.0	17.0	29.0	20.0	24.0	21.0	18.5	19.5	25.5	15.5	20.0
7	18.5	15.0	16.5	29.0	20.5	24.0	25.0	17.5	21.0	25.5	17.0	20.5
8	19.5	14.5	16.5	28.0	19.0	23.5	25.5	18.5	22.0	26.0	16.5	21.0
9	20.0	15.5	17.5	28.5	20.5	24.5	25.5	19.0	22.0	25.0	16.5	20.5
10	21.0	16.5	18.5	26.0	21.5	23.5	24.0	18.5	20.5	24.5	16.5	20.0
11	22.0	17.0	19.5	29.5	19.0	24.0	25.5	16.0	20.5	25.0	16.0	20.0
12	22.0	18.5	20.0	29.5	20.0	24.0	27.5	17.5	22.0	24.5	16.0	20.0
13	22.5	18.5	20.0	28.0	21.5	24.0	27.5	18.5	22.5	25.0	16.5	20.0
14	25.0	19.5	22.0	26.0	20.5	23.0	26.5	16.5	21.0	25.0	16.0	20.0
15	24.0	20.5	22.0	28.5	19.0	23.0	26.5	16.5	21.0	24.5	15.5	19.5
16	24.0	20.5	22.0	26.0	19.0	22.5	27.0	17.0	22.0	24.5	15.5	19.5
17	24.0	21.0	22.5	28.0	18.5	23.0	28.0	18.5	22.5	25.0	16.5	20.5
18	24.0	21.5	22.5	28.5	19.5	23.5	26.5	19.0	22.5	21.0	18.5	19.5
19	24.0	21.0	22.5	28.0	20.5	23.5	28.0	18.0	22.5	24.0	15.5	19.5
20	25.0	21.5	23.0	27.5	18.5	22.5	28.0	18.5	23.0	24.5	16.5	20.0
21	24.5	21.5	23.0	28.5	18.0	22.5	27.0	19.0	22.5	24.5	16.0	20.0
22	25.0	21.5	23.0	29.5	18.5	23.5	---	---	---	19.5	16.5	18.0
23	25.5	22.0	23.5	29.5	19.5	24.0	---	---	---	24.0	15.5	19.0
24	25.5	22.5	24.0	28.0	19.0	23.0	---	---	---	24.0	15.0	19.0
25	25.0	21.0	22.5	28.5	19.0	23.5	28.5	18.5	23.0	24.0	15.5	19.0
26	24.5	20.5	22.5	28.5	19.5	24.0	26.0	19.5	22.5	22.5	15.0	18.5
27	24.5	21.0	22.5	29.5	20.5	24.5	25.5	19.5	22.0	---	13.0	---
28	24.5	21.0	23.0	29.5	20.5	25.0	28.0	18.5	22.5	19.5	---	---
29	25.5	22.0	23.5	27.5	20.5	23.5	28.0	17.5	22.5	20.5	11.5	15.5
30	26.0	22.5	24.0	28.5	19.5	23.5	25.5	18.0	21.5	21.5	12.0	16.5
31	---	---	---	30.0	20.5	24.0	23.5	15.5	19.0	---	---	---
MONTH	26.0	14.5	20.8	30.0	18.0	23.5	---	---	---	---	---	---

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figures 16.

Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Walker River Basin								
Desert Creek near Wellington, NV (10299100)	Lat 38°38'55", long 119°19'30", in SW ¹ / ₄ SW ¹ / ₄ sec.8, T.9 S., R.24 E., Lyon County, Hydrologic Unit 16050302, 30 ft above diversion structure, 8 mi southeast of Wellington. Drainage area is 50.4 mi ² .	1964-80 1997, 1999,	6-15-99	1.91	40	6-05-99	3.06	262

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Walker River Basin					
By Day Creek near Bridgeport, CA (10291750)	Buckeye Creek	Lat 38°16'08", long 119°18'10", in NW¼NW¼ sec.26, T.5 N., R.24 E., Mono County, Hydrologic Unit 16050301, about 1 mi southwest of Bridgeport Ranger Station, and about 4 mi northwest of Bridgeport.	1995-99	10/05/1998	.97
				11/17/1998	.75
				12/22/1998	.61
				02/03/1999	1.0
				03/17/1999	.95
				04/28/1999	3.2
				06/10/1999	2.4
				07/14/1999	.72
				08/23/1999	.38
Murphy Creek above East Walker River near Bridgeport, CA (10293015)	East Walker River	Lat 38°22'19", long 119°11'50", in NW¼SE¼ sec.14, T.6 N., R.25 E., Mono County, Hydrologic Unit 16050301, 3.5 mi north of Bridgeport Reservoir Dam, and about 8 mi north of Bridgeport.	1995-99	10/06/1998	2.5
				11/16/1998	2.5
				12/22/1998	2.6
				02/01/1999	2.4
				03/15/1999	1.9
				04/27/1999	5.0
				06/09/1999	5.0
				07/13/1999	1.9
				08/25/1999	1.0
Mill Canyon Creek above Lost Canyon Creek near Walker, CA (10296580)	West Walker River	Lat 38°29'12", long 119°29'01", in SE¼NE¼ sec.6, T.7 N., R.23 E., Mono County, Hydrologic Unit 16050302, in Mill Canyon, about 0.5 mi upstream from Lost Canyon Creek, and about 2 mi southwest of Walker.	1995-99	10/05/1998	2.8
				11/16/1998	2.4
				12/21/1998	2.4
				02/01/1999	2.2
				03/15/1999	3.6
				04/26/1999	9.5
				06/10/1999	7.1
				07/12/1999	2.5
				08/23/1999	1.5
Walker River at East Bridge Street near Yerington, NV (10301100)	Walker Lake	Lat 38°58'58", long 119°10'52", in NE¼NE¼ sec.21, T.13 N., R.25 E., Lyon County, Hydrologic Unit 16050303, at Bridge Street, 0.8 mi west of Yerington.	1995-99	11/02/1998	192
				12/03/1998	294
				01/05/1999	140
				02/23/1999	602
				04/28/1999	374
				05/28/1999	757
				06/25/1999	1300
				07/28/1999	271
				09/07/1999	207
Walker River at Point Site near Schurz, NV (10301720)	Walker Lake	Lat 39°02'02", long 118°51'41", in SW¼NW¼ sec.33, T.14 N., R.28 E., Mineral County, Hydrologic Unit 16050303, 0.6 mi south of Weber Reservoir, and 6.3 mi northwest of Schurz.	1994-99	10/13/1998	86
				11/03/1998	119
				12/02/1998	270
				03/15/1999	143
				08/09/1999	103
				08/23/1999	95
				09/08/1999	80

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Walker River Basin					
Walker River at Powerline Crossing near Schurz, NV (10302005)	Walker Lake	Lat 38°53'41", long 118°46'54", in NW¼NE¼ sec.19, T.12 N., R.29 E., Mineral County, Hydrologic Unit 16050303, 0.9 mi east of U.S. Highway 95, and 4.3 mi southeast of Schurz.	1994-99	11/03/1998	132
				12/02/1998	312
				03/16/1999	145
				08/11/1999	53
				08/24/1999	65
				09/09/1999	30
Walker River near mouth near Walker Lake, NV (10302025)	Walker Lake	Lat 38°47'28", long 118°43'34", in SE¼SE¼ sec.29, T.11 N., R.29 E., Mineral County, Hydrologic Unit 16050303, 1.5 mi southeast of Pelican Point, and about 10 mi northeast of Walker Lake.	1994-99	11/03/1998	120
				12/02/1998	309
				03/16/1999	141
				08/11/1999	62
				08/25/1999	50
				09/09/1999	28

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 019, Lyon.

Water-use codes: H, domestic; I, irrigation; N, industrial; S, stock; U, unused.

Depths, perforated interval, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Elevation is that of LSD, with reference to sea level.

Water Levels: Levels above LSD are listed as negative values.

Water Level Status: F, site flowing; R, site recently pumped.

Water Level Method: Z, reported by Nevada Division of Water Resources.

Locations of following sites are shown in figures 21

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
						Top	Bottom		Date	Feet	Status Method
107 N10 E24 08CBCA1	384426119194601	1998-99	019	I	504.	100.	504.	4950.	03/01/1999	88.53	Z
107 N10 E24 16ACCC1	384350119172301	1980-99	019	I	486.	196.	486.	5000.	03/01/1999	153.86	Z
107 N10 E24 17CCAA1	384326119193701	1998-99	019	I	490.	150.	490.	4980.	03/01/1999	147.81	Z
107 N10 E24 18BACD1	384356119203501	1993-99	019	I	536.	198.	536.	5000.	03/01/1999	159.89	Z
107 N11 E23 01CCCC1	385016119214801	1998-99	019	U	128.	108.	128.	4790.	03/01/1999	22.77	Z
107 N11 E23 02ADDD1	385040119212301	1996-99	019	I	537.	147.	537.	4780.	03/01/1999	27.27	Z
107 N11 E23 02BBCC1	385057119220701	1997-99	019	I	412.	96.	412.	4797.	03/02/1999	29.66	Z
107 N11 E23 02CCBB1	385030119220501	1999	019	I	546.	138.	546.	4800.	03/02/1999	44.28	Z
107 N11 E23 03CBBC1	385035119240001	1984-99	019	I	580.	165.	580.	4881.	03/02/1999	119.44	Z
107 N11 E23 10ACBB1	385001119223901	1998-99	019	I	385.	100.	385.	4840.	03/02/1999	77.64	Z
107 N11 E23 12CBBB1	384949119204901	1993-99	019	U	585.	230.	585.	4790.	03/01/1999	34.79	Z
107 N11 E23 15CBAA1	384855119234801	1989-99	019	I	510.	130.	510.	4820.	03/02/1999	35.59	Z
107 N11 E23 23CBBC1	384830119220501	1992-99	019	I	420.	100.	420.	4800.	03/02/1999	41.59	Z
107 N11 E23 24DDDD1	384743119204901	1996-99	019	I	760.	240.	760.	4760.	03/01/1999		F
107 N12 E23 34ACCC1	385834119322301	1986-99	019	I	400.	100.	400.	4795.	03/02/1999	34.30	Z
107 N12 E23 34BACB1	385205119225401	1999	019	I	423.	100.	423.	4795.	03/02/1999	28.35	Z
107 N12 E23 36BDBD1	385141119212701	1998-99	019	I	252.	94.	252.	4766.	03/02/1999	12.75	Z
107 N12 E23 36DCDC1	385109119210701	1996-99	019	I	495.	147.	495.	4782.	03/01/1999	42.70	Z
107 N13 E23 27ADCD1	385745119230501	1976-99	019	I	400.			4630.	03/02/1999	31.24	Z
107 N13 E24 21BCCD1	385838119182701	1999	019	S	280.	260.	280.	4780.	03/02/1999	169.04	Z
107 N13 E24 30AACC1	385759119200001	1996-99	019	I				4620.	03/02/1999	12.88	Z
107 N13 E24 30ADDD1	385741119194701	1979-99	019	U	440.	27.	216.	4620.	03/02/1999	13.00	Z
108 N11 E25 01ACCB1	385047119080401	1997-99	019	I	526.	150.	520.	4550.	03/01/1999	58.21	Z
108 N11 E25 02CDDD1	385018119091101	1997-99	019	I	554.	132.	554.	4545.	03/01/1999	58.11	Z
108 N11 E25 10DBCD1	384942119100801	1998-99	019	I	597.	183.	575.	4568.	03/01/1999	82.95	Z
108 N11 E25 11AACC1	385003119085201	1994-99	019	I	256.	106.	256.	4562.	03/01/1999	80.95	Z
108 N12 E25 11CACD1	385456119091901	1999	019	I	245.	100.	245.	4436.	03/01/1999	7.85	Z
108 N12 E25 12CDAA1	385447119075901	1992-99	019	H	102.			4470.	02/25/1999	36.20	Z
108 N12 E25 15DB 1	385410119100401	1993-99	019	I	310.	42.	310.	4440.	03/01/1999	12.26	Z
108 N12 E25 21ACA 1	385332119110601	1991-99	019	H	100.			4460.	03/01/1999	23.10	Z
108 N12 E25 27DAAA1	385225119094801	1998-99	019	I				4458.	03/01/1999	15.49	Z
108 N12 E25 35DCDD2	385109119085601	1997-99	019	N				4510.	03/01/1999	19.63	Z
108 N13 E25 01DBCC1	390057119080001	1996-99	019	I	570.	100.	570.	4365.	02/24/1999	11.77	Z
108 N13 E25 04BBCB1	390130119115401	1998-99	019	I	420.	220.	420.	4355.	02/23/1999	14.53	Z
108 N13 E25 10CDB 1	390004119103001	1999	019	I	328.	94.	328.	4375.	02/24/1999	7.42	Z
108 N13 E25 11ACBD1	390026119090401	1992-99	019	I	435.	120.	432.	4371.	02/24/1999	8.87	Z
108 N13 E25 13CCCD1	385904119083001	1993-99	019	I	306.	103.	306.	4380.	02/24/1999	5.93	Z
108 N13 E25 13DDDD1	385903119073001	1991-99	019	I	280.	115.	280.	4370.	02/24/1999	8.00	Z
108 N13 E25 23DDDC1	385809119084401	1999	019	I	308.	100.	308.	4394.	02/24/1999	8.33	Z
108 N13 E25 25CDDA1	385722119080701	1992-99	019	S	45.			4425.	02/25/1999	18.61	Z
108 N13 E25 25CDDA2	385717119080901	1996-99	019	S	106.	86.	106.	4415.	02/25/1999	11.35	Z
108 N13 E25 26DDCC1	385720119085001	1989-99	019	I	160.	102.		4405.	02/25/1999	8.45	Z
108 N13 E25 27DCCD2	385718119101301	1990-99	019	I	440.	95.	440.	4410.	02/25/1999	11.01	R
108 N13 E25 36DCCA1	385633119074201	1986-99	019	I	255.	40.	255.	4434.	02/25/1999	22.05	Z
108 N13 E26 02BBCC1	390127119030001	1999-99	019	I	203.	64.	203.	4408.	02/24/1999	87.58	Z
108 N13 E26 06DBDC1	390059119064301	1999-99	019	I	241.	95.	241.	4358.	02/24/1999	8.57	Z
108 N13 E26 08CACA1	390011119060201	1998-99	019	I	130.	50.	120.	4350.	02/24/1999	14.37	Z
108 N13 E26 09DBCC1	390006119043901	1988-99	019	I	166.	60.	160.	4380.	02/24/1999	57.04	Z
108 N13 E26 31DDCD1	385628119063301	1999	019	I	172.	90.	172.	4460.	02/25/1999	49.63	Z
108 N14 E25 03DDDC1	390558119094701	1999	019	I	85.	91.	258.	4323.	02/23/1999	9.14	Z
108 N14 E25 04DACC1	390611119110301	2000	019	I	451.	97.	451.	4320.	02/23/1999	8.25	Z
108 N14 E25 08DCCC1	390507119122801	1987-99	019	I	348.	107.	348.	4410.	02/23/1999	16.59	Z

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
						Top	Bottom		Date	Feet	Status	Method
108 N14 E25 10CCDA1	390509119103401	1993	019	I	460.	448.	460.	4332.	02/23/1999	10.89		Z
108 N14 E25 18DCBB1	390415119132801	1990	019	U	73.			4345.	02/23/1999	37.34		Z
108 N14 E25 29DCBC1	390233119122401	1990	019	H	150.	110.	150.	4390.	02/23/1999	50.89		Z
108 N14 E25 34CB 1	390154119104001	1990	019	I	358.	103.	358.	4360.	02/23/1999	15.62		Z
108 N14 E26 03DCBC1	390606119032901	1994	019	I	160.	87.	123.	4330.	02/24/1999	5.05		Z
108 N14 E26 03DCDD1	390601119031701	1992	019	I	160.	87.	123.	4333.	02/24/1999	8.29		Z
108 N14 E26 15ADBB1	390436119030701	1990	019	I	158.	58.	158.	4328.	02/24/1999	11.44		Z
108 N14 E26 26ADCC1	390255119021101	1997	019	I	157.	80.	157.	4400.	02/24/1999	88.49		Z
108 N14 E26 26CCDD1	390231119024501	1994	019	I	250.	100.	250.	4415.	02/24/1999	90.91		Z
108 N14 E26 31DCCC1	390137119065401	1997	019	I	239.	87.	239.	4349.	02/24/1999	7.75		Z
108 N14 E26 31DCCC2	390137119065402	1993	019	I	400.	120.	400.	4356.	02/24/1999	9.95		Z
108 N14 E26 32ADCA1	390204119052801	1991	019	I	308.	100.	308.	4350.	02/24/1999	13.13		Z
108 N14 E26 32BCCC1	390201119062001	1987	019	I	120.	40.	120.	4345.	02/24/1999	6.87		Z
108 N14 E26 32BCCC2	390201119062002	1994	019	I	249.	47.	247.	4345.	02/24/1999	6.82		Z
108 N14 E26 32BDDD1	390203119055101	1999	019	S	104.	94.	103.	4350.	02/24/1999	9.59		Z
108 N15 E25 32AADD1	390727119115301	1996	019	I	428.	114.	428.	4304.	02/23/1999	3.94		Z
108 N15 E25 34ACDD1	390715119095901	1999	019	I	370.	123.	370.	4310.	02/23/1999	4.11		Z

* Additional water-level data may be found in Ground-Water Levels, Primary Observation Wells section.

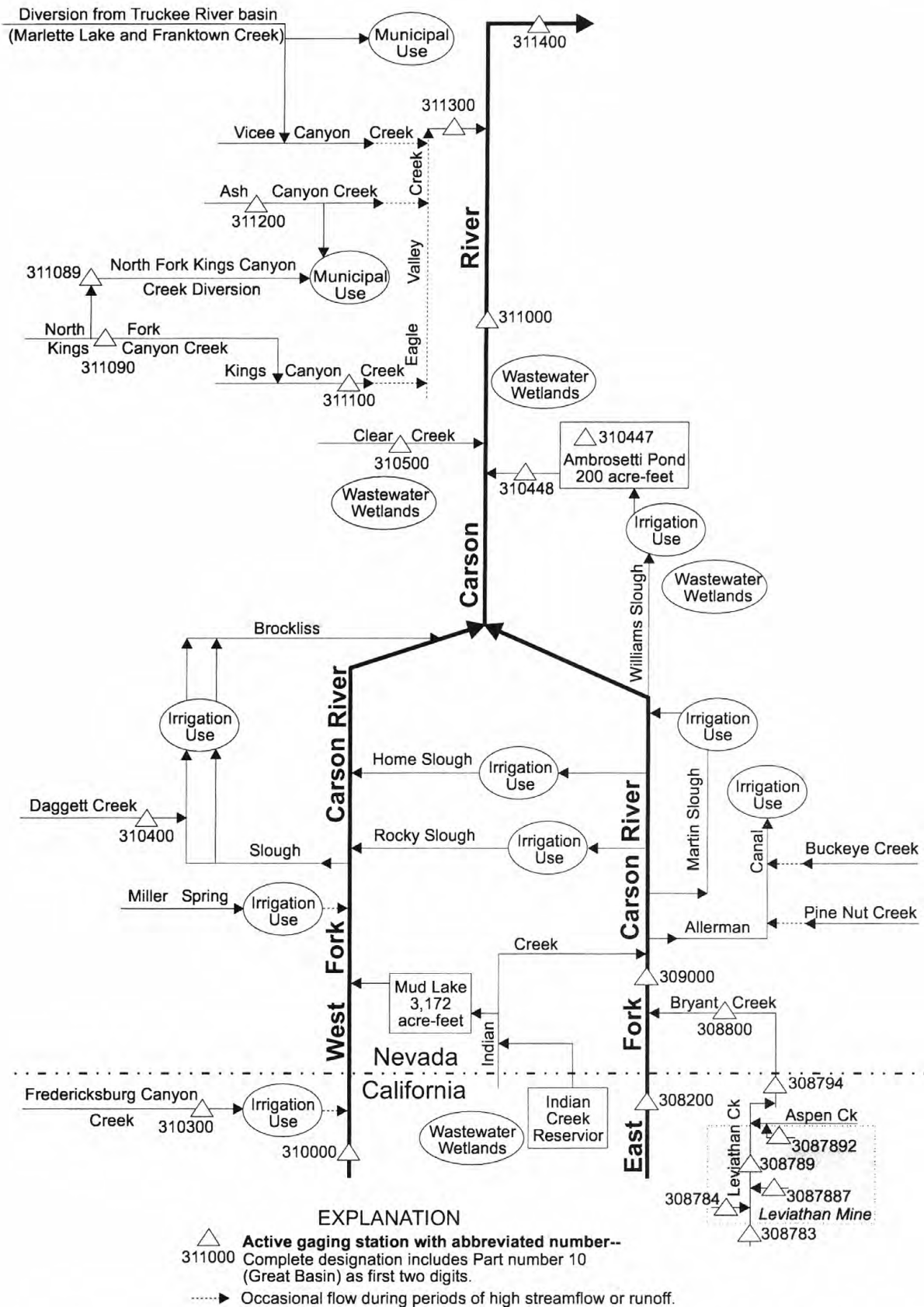


Figure 27. Schematic diagram of flow system and gaging stations in the Carson River Basin upstream of station 311400

CARSON RIVER BASIN

10308200 EAST FORK CARSON RIVER BELOW MARKLEEVILLE CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'50", long 119°45'50", in SW 1/4 NE 1/4 sec.15, T.10 N., R.20 E., Alpine County, Hydrologic Unit 16050201, on right bank, 0.5 mi downstream from Markleeville Creek, and 1.5 mi northeast of Markleeville.

DRAINAGE AREA.--276 mi².

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.--No estimated daily discharges. Records good. A few small diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s, January 2, 1997, gage height, 11.78 ft; minimum daily, 12 ft³/s, September 10-13, 23, 1997.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*)

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Feb 07	1245	1600	4.34	June 15	0030	2170	4.89
May 28	2115	*3820	*6.10				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	111	183	98	119	239	273	667	2060	1080	176	135
2	101	105	158	106	120	257	276	802	1900	1070	164	134
3	107	105	171	111	129	323	265	682	1530	1000	161	128
4	117	102	131	114	138	293	256	596	1320	904	176	106
5	118	100	123	110	133	245	258	647	1210	803	182	102
6	108	95	120	107	131	224	248	932	1350	753	172	101
7	101	101	114	102	797	208	236	1290	1410	730	172	106
8	104	103	129	98	507	199	220	1380	1350	689	166	104
9	104	99	125	94	549	191	204	1300	1320	637	165	113
10	103	104	117	106	295	173	212	1230	1360	600	204	118
11	105	113	123	108	232	184	228	1420	1480	579	213	108
12	106	99	121	97	223	177	271	1750	1610	558	175	103
13	106	108	123	97	210	193	365	1810	1740	519	158	91
14	107	115	120	97	200	211	441	1410	1880	476	154	89
15	102	115	116	103	186	206	442	1220	1930	454	149	86
16	102	110	117	130	189	208	473	1200	1920	425	157	85
17	103	114	116	116	334	237	573	1350	1870	386	154	75
18	94	96	118	212	255	284	705	1550	1830	345	147	81
19	99	103	115	291	217	314	883	1540	1770	309	140	94
20	101	102	95	285	198	297	964	1620	1690	285	137	82
21	101	109	81	174	201	265	1010	1720	1630	266	146	86
22	101	116	80	157	187	257	898	1930	1570	246	147	81
23	100	141	77	196	183	275	713	2180	1590	235	149	80
24	105	156	96	162	182	285	650	2310	1610	228	141	79
25	113	129	106	153	186	303	658	2530	1450	218	140	75
26	112	120	104	147	172	351	894	2640	1260	210	143	73
27	114	117	97	142	186	382	983	2650	1140	202	177	72
28	113	114	92	124	207	355	874	3030	1100	194	143	71
29	112	118	93	132	---	338	716	2740	1100	183	132	71
30	112	199	91	133	---	315	655	2180	1080	178	126	69
31	102	---	98	131	---	304	---	2170	---	181	127	---
TOTAL	3278	3419	3550	4233	6666	8093	15844	50476	46060	14943	4893	2798
MEAN	106	114	115	137	238	261	528	1628	1535	482	158	93.3
MAX	118	199	183	291	797	382	1010	3030	2060	1080	213	135
MIN	94	95	77	94	119	173	204	596	1080	178	126	69
AC-FT	6500	6780	7040	8400	13220	16050	31430	100100	91360	29640	9710	5550

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1999, BY WATER YEAR (WY)

	MEAN	112	137	202	213	292	549	1141	1026	415	149	91.3
MAX	346	476	718	1722	917	983	1121	2447	2996	1721	477	239
(WY)	1983	1984	1965	1997	1986	1986	1982	1969	1983	1995	1983	1983
MIN	24.0	32.6	41.4	44.2	43.9	58.7	183	197	135	58.0	33.0	18.0
(WY)	1978	1977	1991	1977	1991	1977	1977	1977	1992	1977	1977	1987

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1960 - 1999

ANNUAL TOTAL	167922	164253	
ANNUAL MEAN	460	450	368
HIGHEST ANNUAL MEAN			809
LOWEST ANNUAL MEAN			83.7
HIGHEST DAILY MEAN	2080	Jun 16	3030 May 28
LOWEST DAILY MEAN	72	Jan 6	69 Sep 30
ANNUAL SEVEN-DAY MINIMUM	80	Jan 3	73 Sep 24
INSTANTANEOUS PEAK FLOW			3820 May 28
INSTANTANEOUS PEAK STAGE			6.10 May 28
ANNUAL RUNOFF (AC-FT)	333100	325800	266600
10 PERCENT EXCEEDS	1400	1410	982
50 PERCENT EXCEEDS	172	177	148
90 PERCENT EXCEEDS	101	98	51

CARSON RIVER BASIN

10308783 LEVIATHAN CREEK ABOVE LEVIATHAN MINE NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'05", long 119°39'20", in SW¹/₄ NE¹/₄ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on right bank 2 mi north of Highway 89 and 6.5 mi east of Markleeville.

PERIOD OF RECORD.--October 1998 to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 7,200 ft above sea level, from topographic map.

REMARKS.--Records fair except those below 0.5ft³/s, which are poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 21 ft³/s, May 7, 1999, gage height, 4.40 ft; minimum daily, 0.08 ft³/s, several days in August and September 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.19	e.20	.26	e.28	.47	.48	3.5	1.3	.32	.12	.09
2	---	.17	e.20	.26	e.29	.51	.58	3.2	1.2	.31	.12	.10
3	---	.19	e.20	.23	.30	.61	.56	3.8	1.4	.29	.12	.10
4	---	.18	e.20	.26	.29	.56	.49	3.9	1.6	.29	.12	.09
5	---	.16	.20	.26	.27	.46	.47	4.4	1.3	.28	.12	.09
6	---	.19	.26	.26	.27	.48	.45	10	1.1	.26	.12	.09
7	---	.20	e.25	.27	e.27	.47	.40	15	1.1	.24	.13	.08
8	---	.18	.25	.22	e.28	.45	.38	15	1.1	.23	.12	.09
9	---	.17	e.24	.23	.30	.43	e.38	13	.89	.23	.12	.09
10	---	.20	e.24	.25	e.29	.30	e.36	12	1.1	.22	.16	.13
11	---	.21	.24	.27	e.28	.43	.36	13	1.1	.20	.14	.11
12	---	.20	.24	.26	.28	.38	.40	13	.95	.21	.12	.10
13	---	.22	.25	.26	.29	.49	.55	11	.84	.20	.10	.10
14	---	.23	.24	.27	.29	.54	.87	9.2	.75	.18	.09	.10
15	---	.21	.23	.30	.22	.55	1.3	8.0	.70	.18	.09	.10
16	---	e.21	.23	.29	.29	.64	1.4	6.8	.69	.17	.09	.10
17	---	e.21	.24	.34	.32	.89	2.3	5.8	.64	.16	.09	.11
18	---	e.21	.24	.33	.30	1.2	3.7	5.2	.62	.16	.09	.17
19	---	e.21	.23	.34	.28	1.4	5.6	4.6	.60	.17	.08	.12
20	---	e.21	.23	.28	e.29	1.2	6.8	4.0	.54	.15	.08	.11
21	---	e.21	.24	.30	.29	1.0	7.8	3.6	.53	.14	.08	.11
22	.17	e.21	e.24	.30	.29	1.2	8.2	3.3	.54	.14	.09	.11
23	.15	e.21	e.24	.29	.29	1.4	5.9	3.2	.52	.13	.08	.12
24	.17	e.21	e.23	.23	e.29	1.2	4.8	3.1	.47	.13	.08	.12
25	.19	e.20	e.23	.28	e.28	1.2	4.7	2.6	.45	.13	.08	.11
26	.20	e.20	e.23	.27	.27	1.4	4.3	2.3	.42	.12	.10	.11
27	.18	e.20	e.23	.25	.35	1.5	4.4	2.1	.40	.12	.11	.11
28	.17	e.20	e.25	e.24	.39	1.4	3.5	1.9	.38	.12	.09	.11
29	.20	e.20	e.25	.24	---	1.2	2.7	1.7	.34	.12	.08	.11
30	.19	e.20	.27	.27	---	1.0	2.7	1.6	.32	.12	.08	.11
31	.19	---	.27	.27	---	.86	---	1.5	---	.12	.09	---
TOTAL	---	5.99	7.29	8.38	8.13	25.82	76.83	191.3	23.89	5.84	3.18	3.19
MEAN	---	.20	.24	.27	.29	.83	2.56	6.17	.80	.19	.10	.11
MAX	---	.23	.27	.34	.39	1.5	8.2	15	1.6	.32	.16	.17
MIN	---	.16	.20	.22	.22	.30	.36	1.5	.32	.12	.08	.08
AC-FT	---	12	14	17	16	51	152	379	47	12	6.3	6.3

e Estimated.

CARSON RIVER BASIN

10308784 LEVIATHAN MINE ADIT DRAIN NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'15", long 119°39'28", in NW¹/₄ NE¹/₄ sec.22, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.2 mi north of Highway 89 and 6.5 mi southeast of Markleeville.

PERIOD OF RECORD.--November 1998 to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 7,100 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 0.09 ft³/s, May 14, 1999, gage height, 9.82 ft; minimum daily, 0.04 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.04	.04	.04	.04	.04	.06	.07	.06	.05	.05
2	---	.04	.04	.04	.04	.04	.04	.07	.07	.06	.05	.05
3	---	.04	.04	.04	.04	.04	.04	.07	.07	.06	.05	.05
4	---	.04	.04	.04	.04	.04	.04	.07	.07	.06	.05	.05
5	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
6	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
7	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
8	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
9	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
10	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
11	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
12	---	.04	.04	.04	.04	.04	.04	.08	.07	.05	.05	.05
13	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
14	---	.04	.04	.04	.04	.04	.04	.08	.07	.06	.05	.05
15	---	.04	.04	.04	.04	.04	.04	.09	.07	.05	.05	.05
16	---	.04	.04	.04	.04	.04	.04	.09	.06	.05	.05	.05
17	---	.04	.04	.04	.04	.04	.04	.09	.06	.05	.05	.05
18	---	.04	.04	.04	.04	.04	.04	.09	.06	.05	.05	.05
19	---	.04	.04	.04	.04	.04	.04	.08	.06	.05	.05	.05
20	---	.04	.04	.04	.04	.04	.04	.08	.06	.05	.05	.05
21	---	.04	.04	.04	.04	.04	.04	.08	.06	.05	.05	.05
22	---	.04	.04	.04	.04	.04	.04	.08	.06	.05	.05	.05
23	---	.04	.04	.04	.04	.04	.05	.08	.06	.05	.05	.05
24	---	.04	.04	.04	.04	.04	.05	.08	.06	.05	.05	.05
25	---	.04	.04	.04	.04	.04	.05	.08	.06	.05	.05	.05
26	---	.04	.04	.04	.04	.04	.05	.08	.06	.05	.05	.04
27	---	.04	.04	.04	.04	.04	.06	.08	.06	.05	.05	.05
28	---	.04	.04	.04	.04	.04	.06	.08	.06	.05	.05	.05
29	---	.04	.04	.04	---	.04	.06	.08	.06	.05	.05	.05
30	---	.04	.04	.04	---	.04	.06	.07	.06	.05	.05	.04
31	---	---	.04	.04	---	.04	---	.07	---	.05	.05	---
TOTAL	---	---	1.24	1.24	1.12	1.24	1.32	2.45	1.95	1.68	1.55	1.48
MEAN	---	---	.040	.040	.040	.040	.044	.079	.065	.054	.050	.049
MAX	---	---	.04	.04	.04	.04	.06	.09	.07	.06	.05	.05
MIN	---	---	.04	.04	.04	.04	.04	.06	.06	.05	.05	.04
AC-FT	---	---	2.5	2.5	2.2	2.5	2.6	4.9	3.9	3.3	3.1	2.9

CARSON RIVER BASIN

103087887 LEVIATHAN MINE POND 4 NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°42'34", long 119°39'41", in SE 1/4 SW 1/4 sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.9 mi north of Highway 89 and 6.5 mi east of Markleeville.

PERIOD OF RECORD.--October 1998 to September 1999.

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

REMARKS.--Records good above 0.04 ft³/s and poor below. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 0.3431 ft³/s, February 10, 1999, gage height, 6.62 ft; no flow on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.0000	e.0001	.0001	e.0692	e.0861	.1036	.1308	.0164	.0009	.0003	.0001
2	---	.0000	e.0001	.0001	e.0861	e.0861	.1068	.1135	.0131	.0008	.0003	.0001
3	---	.0000	e.0001	.0001	e.0692	e.0960	.1194	.1007	.0328	.0008	.0003	.0001
4	---	.0000	e.0001	.0001	e.0692	.0805	.1413	.0900	.0442	.0008	.0003	.0001
5	---	.0000	.0001	.0001	e.0620	.0811	.1351	.0821	.0471	.0007	.0003	.0001
6	---	.0000	.0001	.0001	e.0772	.0741	.1979	.0767	.0439	.0007	.0003	.0000
7	---	.0000	.0001	.0001	e.2380	.0670	.2196	.0725	.0365	.0007	.0003	.0000
8	---	.0000	.0001	.0001	e.2752	.0684	.2082	.0640	.0297	.0006	.0002	.0000
9	---	.0000	.0001	.0001	e.2959	.1034	.1905	.0562	.0225	.0006	.0002	.0000
10	---	.0000	.0001	.0001	e.3431	.1050	.1508	.0521	.0202	.0006	.0002	.0000
11	---	.0000	.0001	.0001	e.2380	.0962	.1292	.0521	.0183	.0006	.0002	.0000
12	---	.0000	.0001	.0001	e.1750	.0802	.1161	.0506	.0153	.0006	.0002	.0000
13	---	.0000	.0001	.0001	e.1373	.0840	.1119	.0444	.0136	.0005	.0002	.0000
14	---	.0000	.0001	.0002	e.1163	.0850	.1137	.0397	.0107	.0005	.0002	.0000
15	---	.0000	.0001	.0002	e.0960	.0770	.1123	.0390	.0076	.0005	.0002	.0000
16	---	.0000	.0001	.0002	e.0960	.0777	.1099	.0390	.0071	.0005	.0002	.0000
17	.0000	.0000	.0001	.0002	e.1070	.0810	.1116	.0374	.0064	.0005	.0002	.0000
18	.0000	.0000	.0001	.0003	e.1070	.0884	.1123	.0372	.0044	.0004	.0002	.0000
19	.0000	.0000	.0001	.0006	e.0861	.0939	.1129	.0347	.0031	.0004	.0002	.0000
20	.0000	.0000	.0001	e.1620	e.0861	.0978	.1115	.0334	.0026	.0004	.0002	.0000
21	.0000	.0000	.0001	e.2041	e.0900	.0898	.1059	.0333	.0019	.0004	.0002	.0001
22	.0000	e.0001	.0001	e.1750	e.1264	.0878	.1150	.0325	.0019	.0004	.0002	.0000
23	.0000	e.0000	.0001	e.0772	e.0960	.0918	.1450	.0309	.0017	.0004	.0001	.0000
24	.0000	e.0000	.0001	e.0393	e.1070	.0940	.1520	.0297	.0015	.0004	.0001	.0000
25	.0000	e.0000	.0001	e.1070	e.1163	.0972	.1362	.0323	.0010	.0004	.0001	.0000
26	.0000	e.0000	.0001	e.1373	e.1070	.1037	.1204	.0341	.0010	.0003	.0001	.0000
27	.0000	e.0000	.0001	e.1264	e.0960	.0984	.1090	.0319	.0009	.0003	.0001	.0000
28	.0000	e.0000	.0001	e.1070	e.0861	.0864	.0941	.0251	.0009	.0003	.0001	.0000
29	.0000	e.0000	.0001	e.0960	---	.0863	.1013	.0208	.0009	.0003	.0001	.0000
30	.0000	e.0000	.0001	e.0960	---	.0775	.1346	.0208	.0009	.0003	.0001	.0000
31	.0000	---	.0001	e.0772	---	.1017	---	.0205	---	.0003	.0001	---
TOTAL	---	0.0001	0.0031	1.4075	3.6547	2.7235	3.9281	1.5580	0.4081	0.0159	0.0060	0.0006
MEAN	---	.000	.000	.045	.13	.088	.13	.050	.014	.001	.000	.000
MAX	---	.0001	.0001	.2041	.3431	.1050	.2196	.1308	.0471	.0009	.0003	.0001
MIN	---	.0000	.0001	.0001	.0620	.0670	.0941	.0205	.0009	.0003	.0001	.0000
AC-FT	---	.00	.01	2.8	7.2	5.4	7.8	3.1	.8	.03	.01	.00

e Estimated.

CARSON RIVER BASIN

10308789 LEVIATHAN CREEK ABOVE ASPEN CREEK, NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°43'01", long 119°39'33", in NE¹/₄ NW¹/₄ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on right bank 3.2 mi north of Highway 89 and 6.5 mi southeast of Markleeville.

DRAINAGE AREA.—7.07 mi².

PERIOD OF RECORD.--October 1998 to September 1999.

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

REMARKS.--Records fair except those below 0.5 ft³/s, which are poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 24 ft³/s, April 28, 1999, gage height, 5.14 ft; minimum daily, 0.21 ft³/s, August 21, 22, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.32	.53	.56	e.31	1.2	e2.4	11	5.0	.93	.49	.22
2	---	e.32	e.50	.65	e.35	1.3	2.2	13	4.4	.68	.48	.25
3	---	.31	e.45	e.70	e.40	2.0	e1.9	e12	4.8	.75	.46	.26
4	---	e.31	e.40	e.75	e.45	e1.2	e1.6	11	4.8	.67	.43	.26
5	---	e.31	.37	.67	e.60	e1.2	1.4	e12	4.2	.67	.44	.29
6	---	e.31	.39	.65	1.2	e1.0	e1.0	e15	3.6	.70	.37	.30
7	---	e.32	.37	.42	3.7	e1.0	.85	e17	3.1	.59	.37	.30
8	---	.32	.37	e.41	2.8	e.95	e.85	e16	2.8	.51	.36	.30
9	---	e.33	.36	e.40	e2.5	e.95	e.90	e12	2.6	.49	.34	.31
10	---	e.34	.37	e.39	e2.0	e2.6	e.85	10	2.4	.48	.29	.30
11	---	e.35	.35	e.39	e1.5	1.2	e.85	11	2.2	.46	.31	.30
12	---	e.36	.34	e.39	.99	e1.1	e1.0	10	2.0	.51	.32	.33
13	---	e.37	e.34	e.39	.88	e1.0	e2.0	7.9	1.8	.50	.32	.36
14	---	.39	e.34	e.40	.97	.88	e3.5	8.3	1.8	.56	.28	.35
15	---	e.39	e.35	e.42	e1.0	1.1	e4.5	7.9	1.7	.41	.28	.35
16	---	e.39	e.36	.44	.94	1.2	e5.5	7.7	1.6	.44	.29	.39
17	---	e.39	e.37	.53	1.1	1.9	e6.5	e7.2	1.5	.45	.28	.38
18	---	e.39	e.38	.66	.99	2.3	e7.5	e7.8	1.4	.41	.28	.33
19	---	e.39	e.39	e.60	e.95	2.4	e8.5	8.3	1.4	.45	.26	.37
20	---	e.39	e.40	e.55	e.90	1.6	e9.8	9.3	1.3	.42	.24	.41
21	---	.39	e.40	e.50	e.85	1.1	9.6	9.9	1.3	.48	.21	.63
22	---	.39	.40	e.44	e.80	1.2	6.4	9.2	1.3	.56	.21	.79
23	---	e.39	.38	e.40	e.70	1.6	7.3	9.4	e1.2	.63	.22	.83
24	.30	.40	.39	e.40	e.70	e2.5	7.8	8.4	e1.2	.60	.23	.85
25	.36	e.38	.39	e.40	e.70	e2.8	e9.6	8.6	1.0	.60	.24	.86
26	.35	e.36	.39	e.40	e.75	e3.2	e13	8.0	e1.0	.63	.24	.76
27	.32	.35	.38	e.40	.77	e3.0	e15	7.6	e1.0	.60	.24	.69
28	.31	.34	.40	e.40	.99	e2.8	13	7.0	e1.0	.60	.25	.65
29	.35	.40	.40	e.35	---	e2.6	e7.7	6.3	.97	.57	.28	.73
30	.34	e.40	.40	e.35	---	e2.6	8.4	5.6	.89	.53	.24	.77
31	e.32	---	.42	e.31	---	e2.4	---	5.9	---	.52	.22	---
TOTAL	---	10.80	12.08	14.72	30.79	53.88	161.40	300.3	65.26	17.40	9.47	13.92
MEAN	---	.36	.39	.47	1.10	1.74	5.38	9.69	2.18	.56	.31	.46
MAX	---	.40	.53	.75	3.7	3.2	15	17	5.0	.93	.49	.86
MIN	---	.31	.34	.31	.31	.88	.85	5.6	.89	.41	.21	.22
AC-FT	---	21	24	29	61	107	320	596	129	35	19	28

e Estimated.

CARSON RIVER BASIN

103087892 ASPEN CREEK OVERBURDEN SEEP NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°43'45", long 119°39'11", in NE¹/₄ SE¹/₄ sec.15, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, 2.8 mi north of Highway 89 and 2.1 mi east of Markleeville.

PERIOD OF RECORD.--November 1998 to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 7,100 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.19 ft³/s, April 10, 1999, gage height, 9.81 ft; minimum daily, 0.02 ft³/s, many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.03	.02	.02	.02	.09	e.06	e.03	.03	.03	.05
2	---	---	.03	.02	.02	.02	.09	e.06	e.03	.04	.04	.05
3	---	---	.03	.02	.02	.03	.12	e.05	e.03	.04	.03	.05
4	---	---	.03	.02	.02	.02	.12	e.05	e.03	.04	.03	.03
5	---	---	.03	.02	.02	.02	.12	e.05	e.03	.04	.02	.03
6	---	---	.03	.02	.02	.02	.13	.05	e.03	.04	.02	.03
7	---	.03	.03	.02	.03	.02	.14	e.05	e.03	.04	.02	.03
8	---	.03	.03	.02	.02	.02	.14	e.05	e.03	.04	.02	.03
9	---	.03	.03	.02	.02	.03	.15	e.05	e.03	.04	.02	.03
10	---	.03	.03	.02	.02	.02	.16	e.05	e.03	.04	.02	.03
11	---	.03	.03	.02	.02	.02	.15	e.05	e.03	.04	.02	.03
12	---	.03	.02	.02	.02	.02	.07	e.05	e.03	.04	.02	.03
13	---	.03	.02	.02	.02	.03	.09	e.05	e.03	.04	.02	.03
14	---	.03	.02	.02	.02	.03	.09	e.04	e.03	.04	.02	.03
15	---	.03	.02	.02	.02	.02	.09	e.04	e.03	.03	.02	.03
16	---	.03	.02	.02	.02	.03	e.10	.04	e.03	.03	.02	.03
17	---	.03	.02	.02	.02	.03	e.11	.04	e.02	.03	.03	.03
18	---	.03	.02	.03	.02	.03	e.10	e.04	e.02	.03	.03	.03
19	---	.03	.02	.02	.02	.03	e.08	e.04	e.02	.03	.04	.03
20	---	.03	.02	.02	.02	.03	e.07	e.04	e.02	.03	.05	.03
21	---	.03	.03	.02	.02	.03	e.07	e.04	e.02	.03	.06	.03
22	---	.03	.02	.02	.02	.03	e.07	e.04	e.02	.03	.06	.03
23	---	.03	.02	.02	.02	.03	e.06	e.04	e.02	.03	.06	.03
24	---	.03	.02	.02	.02	.04	e.06	e.04	e.02	.04	.06	.03
25	---	.02	.02	.02	.02	.04	e.06	e.04	e.02	.04	.06	.04
26	---	.02	.02	.02	.02	.08	.06	e.04	.02	.04	.05	.04
27	---	.02	.02	.02	.02	.07	.06	e.04	.02	.03	.05	.04
28	---	.02	.02	.02	.02	.09	e.06	e.04	.02	.03	.05	.04
29	---	.03	.02	.02	---	.10	e.06	e.03	.03	.03	.06	.04
30	---	.03	.02	.02	---	.10	e.06	e.03	.03	.03	.06	.04
31	---	---	.02	.02	---	.10	---	e.03	---	.03	.05	---
TOTAL	---	---	0.74	0.63	0.57	1.20	2.83	1.36	0.78	1.09	1.14	1.02
MEAN	---	---	.024	.020	.020	.039	.094	.044	.026	.035	.037	.034
MAX	---	---	.03	.03	.03	.10	.16	.06	.03	.04	.06	.05
MIN	---	---	.02	.02	.02	.02	.06	.03	.02	.03	.02	.03
AC-FT	---	---	1.5	1.2	1.1	2.4	5.6	2.7	1.5	2.2	2.3	2.0

e Estimated.

CARSON RIVER BASIN

10308794 BRYANT CREEK BELOW CONFLUENCE NEAR MARKLEEVILLE, CA

LOCATION.--Lat 38°44'12", long 119°38'39", in SW¹/₄ SW¹/₄ sec.2, T.10 N., R.21 E., Alpine County, Hydrologic Unit 16050201, on left bank 4.4 mi north of Highway 89 and 7.5 mi northeast of Markleeville.

DRAINAGE AREA.—12.36 mi².

PERIOD OF RECORD.--November 1998 to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 6,300 ft above sea level, from topographic map.

REMARKS.--Records good except estimated daily discharges, which are fair. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 44 ft³/s, April 19, 1999, gage height, 5.35 ft; minimum daily, 2.2 ft³/s, December 4, 1998, July 23, 29, 30, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	2.9	e2.5	e2.8	7.2	6.8	24	9.5	3.3	2.4	2.6
2	---	---	3.0	e2.7	e2.7	7.4	6.5	24	9.3	3.2	2.3	2.7
3	---	---	2.8	2.8	3.7	9.1	6.1	22	10	3.2	2.4	2.7
4	---	---	2.2	e3.0	3.8	7.4	6.6	21	10	3.1	2.5	2.7
5	---	---	2.3	3.0	3.6	5.9	6.3	24	9.1	3.1	2.5	2.6
6	---	---	e2.3	3.0	3.6	5.4	6.2	28	8.4	3.0	2.6	2.5
7	---	3.2	e2.3	3.1	e12	5.0	6.4	29	8.0	2.9	2.7	2.3
8	---	3.1	e2.3	2.9	e7.0	4.8	5.9	29	7.6	2.9	2.6	2.6
9	---	3.1	e2.3	3.0	e5.0	4.1	7.0	26	7.4	2.8	2.7	2.6
10	---	3.1	e2.4	3.1	e5.0	6.2	5.8	25	7.2	2.8	3.3	2.7
11	---	3.2	e2.4	3.1	5.0	4.5	5.8	27	6.8	2.7	3.0	2.8
12	---	3.1	e2.4	3.1	4.5	4.4	8.0	27	6.5	2.7	2.6	2.7
13	---	3.4	e2.4	3.1	4.4	4.9	14	25	6.2	2.7	2.4	2.6
14	---	3.4	e2.4	3.1	4.3	5.3	16	22	5.9	2.6	2.4	2.6
15	---	3.2	2.4	3.4	4.1	5.3	15	20	5.8	2.5	2.4	2.6
16	---	3.2	e2.4	3.6	4.2	5.9	16	19	5.6	2.5	2.4	2.6
17	---	3.2	e2.4	3.7	5.8	7.4	19	18	5.4	2.4	2.4	2.6
18	---	2.9	e2.4	4.7	5.3	8.4	22	17	5.2	2.4	2.4	3.1
19	---	2.9	e2.4	e4.2	4.6	8.3	26	17	5.0	2.4	2.4	3.0
20	---	e2.8	e2.4	e4.0	e4.5	7.4	27	16	4.9	2.4	2.3	2.8
21	---	e2.8	e2.3	3.7	4.3	6.5	29	15	4.5	2.4	2.4	2.8
22	---	e2.8	e2.3	e3.5	4.5	6.9	25	15	4.5	2.3	2.5	2.9
23	---	e2.7	e2.3	e3.2	4.2	7.7	21	14	4.3	2.2	2.5	2.9
24	---	e2.7	e2.3	e3.2	4.5	8.4	21	13	4.1	2.3	2.3	2.7
25	---	e2.7	e2.3	e3.2	4.4	9.3	23	13	4.0	2.4	2.3	2.6
26	---	2.7	e2.3	e3.0	5.0	11	26	12	3.9	2.3	2.7	2.5
27	---	2.7	e2.3	e3.2	5.0	9.5	26	12	3.9	2.3	2.9	2.5
28	---	2.7	e2.3	e3.3	5.9	8.6	22	11	3.6	2.3	2.5	2.5
29	---	2.6	e2.3	e3.5	---	8.3	20	11	3.5	2.2	2.4	2.6
30	---	3.1	e2.3	e3.3	---	7.6	22	10	3.4	2.2	2.5	2.5
31	---	---	e2.3	e3.0	---	6.9	---	9.8	---	2.4	2.6	---
TOTAL	---	---	74.1	101.2	133.7	215.0	467.4	595.8	183.5	80.9	78.3	79.9
MEAN	---	---	2.39	3.26	4.78	6.94	15.6	19.2	6.12	2.61	2.53	2.66
MAX	---	---	3.0	4.7	12	11	29	29	10	3.3	3.3	3.1
MIN	---	---	2.2	2.5	2.7	4.1	5.8	9.8	3.4	2.2	2.3	2.3
AC-FT	---	---	147	201	265	426	927	1180	364	160	155	158

e Estimated.

CARSON RIVER BASIN

10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA

LOCATION.--Lat 38°46'11", long 119°49'58", in NW 1/4 SE 1/4 sec.34, T.11 N., R.19 E., Alpine County, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank, 0.3 mi downstream from bridge on State Highway 88-89, 0.6 mi southwest of Woodfords, 3.8 mi downstream from Willow Creek, and at mi 21.17 from mouth.

DRAINAGE AREA.--65.4 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.

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. January 1997 flood, channel changed course upstream and existing site unuseable. Gage moved 200 ft upstream March 1997 at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s, January 1, 1997, gage height, 15.36 ft (new site); minimum daily, 5.3 ft³/s, September 2, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 11, 1937, reached a stage of 8.0 ft, at different datum, from floodmarks, discharge, 3,500 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 500 ft³/s and maximum (*):

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
April 26	2230	504	12.32	May 28	0015	*1110	*13.21
May 12	2145	1000	13.10	June 15	0215	528	12.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	37	54	32	40	50	74	299	602	199	57	48
2	38	36	50	31	43	51	69	365	566	199	55	51
3	36	34	51	31	40	56	67	253	443	188	54	42
4	36	33	40	31	41	56	64	214	351	170	58	40
5	35	32	42	31	40	52	62	290	312	147	57	39
6	34	32	41	30	38	51	64	392	357	134	55	38
7	34	34	e41	31	47	49	61	552	362	130	55	37
8	33	33	e39	30	47	48	52	586	321	126	53	37
9	32	32	38	30	44	44	62	515	305	116	54	37
10	33	34	39	30	39	52	60	495	305	112	63	38
11	32	35	39	30	52	47	58	597	335	109	61	41
12	31	32	39	30	45	45	59	722	371	111	54	38
13	31	35	39	31	44	47	70	671	406	116	51	37
14	32	37	38	31	43	49	88	505	439	130	49	37
15	31	36	37	35	43	48	97	429	453	108	48	40
16	31	36	37	38	43	49	109	425	461	100	55	40
17	31	36	37	38	51	54	139	495	420	92	56	29
18	31	33	37	49	49	60	182	556	394	86	55	29
19	31	34	35	46	46	65	247	537	382	81	54	30
20	31	33	32	38	48	64	310	554	346	79	50	29
21	30	35	e32	26	44	60	345	572	340	76	43	30
22	31	38	e33	39	44	59	305	651	328	73	43	28
23	30	48	e33	38	44	63	202	728	339	70	44	28
24	32	46	e34	38	44	66	179	759	339	69	42	28
25	35	42	e34	41	41	69	255	877	290	67	41	27
26	38	39	35	41	44	82	385	901	231	65	41	27
27	39	38	33	41	45	93	398	872	206	61	45	26
28	37	37	33	50	47	91	320	908	195	58	42	26
29	36	37	33	47	---	87	219	793	195	58	40	32
30	35	62	33	39	---	80	202	630	196	56	40	28
31	34	---	33	35	---	73	---	643	---	58	40	---
TOTAL	1042	1106	1171	1108	1236	1860	4804	17786	10590	3244	1555	1037
MEAN	33.6	36.9	37.8	35.7	44.1	60.0	160	574	353	105	50.2	34.6
MAX	42	62	54	50	52	93	398	908	602	199	63	51
MIN	30	32	32	26	38	44	52	214	195	56	40	26
AC-FT	2070	2190	2320	2200	2450	3690	9530	35280	21010	6430	3080	2060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 1999, BY WATER YEAR (WY)

	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
MEAN	27.5	40.4	47.8	54.5	58.0	78.8	207	382	265	109	49.4	31.3
MAX	79.1	321	347	621	258	283	502	924	996	525	223	120
(WY)	1983	1951	1951	1997	1963	1986	1907	1906	1983	1907	1907	1983
MIN	8.27	13.1	12.8	13.7	16.3	18.2	46.6	56.4	37.4	18.1	11.1	7.00
(WY)	1989	1991	1991	1961	1977	1977	1975	1977	1992	1977	1977	1977

e Estimated

CARSON RIVER BASIN
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1901 - 1999	
ANNUAL TOTAL	58292		46539		113	
ANNUAL MEAN	160		128		290	
HIGHEST ANNUAL MEAN					1907	
LOWEST ANNUAL MEAN					26.1	
HIGHEST DAILY MEAN	866	Jun 7	908	May 28	5500	Jan 2 1997
LOWEST DAILY MEAN	20	Jan 4	26	Jan 21	5.3	Sep 2 1977
ANNUAL SEVEN-DAY MINIMUM	27	Jan 1	27	Sep 22	5.4	Sep 5 1977
INSTANTANEOUS PEAK FLOW			1110	May 28	8100	Jan 1 1997
INSTANTANEOUS PEAK STAGE			13.21	May 28	15.36	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	115600		92310		81650	
10 PERCENT EXCEEDS	499		388		302	
50 PERCENT EXCEEDS	55		47		47	
90 PERCENT EXCEEDS	33		31		17	

CARSON RIVER BASIN

10310300 FREDERICKSBURG CANYON CREEK NEAR FREDERICKSBURG, CA

LOCATION.--Lat 38°49'38", long 119°47'56", in NE 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.--Water years, 1972, 1973, 1976, 1977, 1981-1983, (discharge measurements only). December 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,520 ft above sea level, from topographic map.

REMARKS.--Records poor. No diversions above station. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s, January 2, 1997, gage height, 7.52 ft, on basis of slope-area measurement of peak flow; minimum daily, 0.92 ft³/s July 18, 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)
May 12	2115	*22	*2.39	Jul 08	1445	11	1.82
Jun 20	0830	18	2.00	Aug 10	1800	9.9	1.80

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.9	5.5	5.3	4.9	5.2	5.1	6.2	7.5	8.4	5.9	7.8
2	5.2	5.9	5.6	5.2	4.9	5.2	5.1	6.1	8.0	7.9	6.2	7.9
3	5.2	5.7	5.6	5.1	4.9	5.3	5.1	5.9	6.5	7.8	7.2	7.9
4	5.3	5.7	5.4	5.1	4.9	5.3	5.0	5.8	6.7	7.0	7.8	7.8
5	5.3	5.7	5.3	4.9	4.9	5.2	5.0	6.2	6.3	6.3	7.4	7.7
6	5.2	5.8	5.4	5.0	5.0	5.1	5.0	7.5	6.7	7.0	7.4	7.6
7	5.2	5.8	5.4	5.0	6.3	5.1	4.9	8.6	6.5	8.0	7.3	7.6
8	5.2	5.7	5.4	5.1	5.7	5.1	4.9	8.4	6.5	7.0	7.1	7.6
9	5.2	5.7	5.3	5.1	5.7	5.1	4.8	8.4	6.8	5.9	7.3	7.6
10	5.3	5.7	5.4	5.1	5.3	5.0	4.8	8.7	6.9	6.1	7.7	7.4
11	5.3	5.8	5.4	5.1	5.2	5.0	4.8	9.4	7.1	6.4	7.4	7.3
12	5.3	5.7	5.4	5.1	5.3	5.0	4.9	10	7.3	7.0	7.5	7.1
13	5.3	5.8	5.3	5.1	5.2	5.0	5.1	10	7.8	6.0	7.7	7.1
14	5.3	5.8	5.2	5.1	5.1	5.0	5.3	8.8	8.4	5.8	7.9	7.0
15	5.4	5.7	5.2	5.2	5.1	5.1	5.5	8.8	9.1	5.4	7.9	6.7
16	5.4	5.7	5.2	5.2	5.2	5.0	5.7	8.6	9.9	5.4	7.7	6.6
17	5.3	5.8	5.2	5.0	5.7	5.0	6.2	8.8	9.6	5.4	7.6	6.6
18	5.3	5.7	5.4	5.2	5.4	5.1	7.0	9.2	9.5	5.1	7.5	6.5
19	5.2	5.7	5.4	5.2	5.3	5.1	7.8	7.8	10	4.8	7.5	6.4
20	5.4	5.6	5.3	4.9	5.2	5.1	8.4	7.9	13	4.8	7.5	6.2
21	5.5	5.6	5.2	5.1	5.2	5.0	7.7	e8.1	8.9	4.8	7.5	5.9
22	5.6	5.7	5.4	5.0	5.1	5.1	7.0	e8.2	12	4.5	7.6	5.9
23	5.7	5.9	5.5	5.0	5.0	5.1	6.3	e8.3	8.1	4.5	7.7	6.0
24	5.7	5.7	5.5	4.9	5.0	5.1	6.0	8.4	8.9	5.5	7.8	5.8
25	5.6	5.7	5.5	4.9	5.1	5.1	6.7	9.2	9.4	5.5	7.7	5.7
26	5.9	5.6	5.5	4.8	5.1	5.3	7.1	8.9	9.8	5.0	7.4	5.6
27	5.8	5.6	5.4	4.7	5.1	5.3	7.0	8.4	10	5.5	7.6	5.8
28	5.7	5.6	5.5	4.7	5.1	5.3	6.7	9.1	10	5.4	7.7	5.6
29	5.9	5.8	5.5	4.8	---	5.2	6.1	9.7	10	5.4	7.7	5.3
30	5.8	6.0	5.5	4.9	---	5.2	6.0	9.2	8.7	5.3	7.7	4.9
31	5.8	---	5.4	4.9	---	5.2	---	8.1	---	5.6	7.8	---
TOTAL	168.6	172.1	167.2	155.7	145.9	158.9	177.0	256.7	255.9	184.5	231.7	200.9
MEAN	5.44	5.74	5.39	5.02	5.21	5.13	5.90	8.28	8.53	5.95	7.47	6.70
MAX	5.9	6.0	5.6	5.3	6.3	5.3	8.4	10	13	8.4	7.9	7.9
MIN	5.2	5.6	5.2	4.7	4.9	5.0	4.8	5.8	6.3	4.5	5.9	4.9
AC-FT	334	341	332	309	289	315	351	509	508	366	460	398

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	3.06	3.02	2.74	8.50	2.67	3.19	4.03	6.14	6.08	4.88	4.00	3.33
MAX	5.97	5.74	5.39	69.7	5.21	6.05	9.65	14.0	12.7	11.3	9.46	6.92
(WY)	1998	1999	1999	1997	1999	1997	1997	1998	1998	1995	1998	1998
MIN	1.06	1.18	1.32	1.18	1.28	1.35	1.73	1.85	1.14	1.03	1.20	1.15
(WY)	1993	1993	1992	1989	1991	1992	1991	1992	1992	1992	1992	1991

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1989 - 1999

ANNUAL TOTAL	2437.5	2275.1	
ANNUAL MEAN	6.68	6.23	4.48
HIGHEST ANNUAL MEAN			11.7
LOWEST ANNUAL MEAN			1.41
HIGHEST DAILY MEAN	16 Jun 7	13 Jun 20	1700 Jan 2 1997
LOWEST DAILY MEAN	3.3 Jan 1	4.5 Jul 22	.92 Jul 18 1992
ANNUAL SEVEN-DAY MINIMUM	3.4 Mar 3	4.8 Jan 24	.97 Jul 14 1992
INSTANTANEOUS PEAK FLOW		22 May 12	5000 Jan 2 1997
INSTANTANEOUS PEAK STAGE		2.39 May 12	7.52 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	4830	4510	3250
10 PERCENT EXCEEDS	11	8.4	7.8
50 PERCENT EXCEEDS	5.8	5.7	2.7
90 PERCENT EXCEEDS	3.6	5.0	1.3

e Estimated

CARSON RIVER BASIN

10310400 DAGGETT CREEK NEAR GENOA, NV

LOCATION.--Lat 38°57'55", long 119°50'55", in SW 1/4 NE 1/4 sec.28, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, in Haines Canyon on left bank, 0.55 mi upstream from Foothill Road, and 3.5 mi southwest of Genoa.

DRAINAGE AREA.--3.82 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.--No estimated daily discharges. Records fair. No diversions above station. Intermittent pumping of effluent from Lake Tahoe Basin by Douglas County Sewer Improvement District No. 1, occurred from February 1969 to November 1971. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 63 ft³/s, August 5, 1971, gage height, 2.78 ft; minimum daily, 0.38 ft³/s, October 9, 1979.

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)
Feb 07	0615	5.9	1.02	May 25	0030	*6.1	*1.03
Feb 28	2045	5.4	1.00				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.4	1.8	1.5	1.6	3.4	2.7	3.7	5.1	2.3	1.9	1.6
2	1.6	1.3	1.8	1.6	1.7	3.1	2.7	3.7	5.3	2.3	1.9	1.6
3	1.6	1.3	1.8	1.6	1.7	3.2	2.7	3.5	5.4	2.2	1.7	1.6
4	1.6	1.3	1.7	1.6	1.7	2.9	2.9	3.3	4.7	2.1	1.6	1.6
5	1.6	1.3	1.6	1.5	1.8	2.8	2.9	3.4	4.4	2.2	1.7	1.6
6	1.6	1.3	1.6	1.6	1.8	2.8	2.9	3.7	4.0	2.1	1.7	1.5
7	1.6	1.4	1.6	1.5	4.6	2.5	2.9	4.0	3.5	2.0	1.7	1.5
8	1.5	1.4	1.6	1.5	3.1	2.5	2.9	3.9	3.6	2.0	1.7	1.5
9	1.5	1.4	1.5	1.5	3.5	2.6	3.0	3.7	3.5	2.2	1.8	1.5
10	1.6	1.4	1.5	1.6	2.8	2.6	2.8	3.8	3.4	2.2	2.3	1.6
11	1.6	1.4	1.6	1.5	2.7	2.7	2.8	3.9	3.4	2.2	2.1	1.5
12	1.6	1.4	1.7	1.5	2.7	2.7	3.1	4.3	3.4	2.1	1.9	1.5
13	1.6	1.4	1.6	1.6	2.8	2.6	3.4	4.2	3.4	2.0	1.8	1.5
14	1.6	1.4	1.6	1.5	2.6	2.7	3.4	4.0	3.1	1.9	1.8	1.4
15	1.7	1.4	1.6	1.6	2.6	2.6	3.3	3.7	3.1	1.9	1.8	1.4
16	1.6	1.3	1.6	1.8	2.6	2.6	3.4	3.7	3.1	1.9	1.7	1.5
17	1.5	1.4	1.6	1.7	3.0	2.8	3.7	4.0	2.9	1.9	1.7	1.5
18	1.5	1.4	1.6	2.3	2.9	2.8	3.7	4.2	3.0	1.8	1.6	1.6
19	1.4	1.4	1.6	2.3	2.9	2.7	3.7	4.1	3.0	1.9	1.5	1.6
20	1.2	1.4	1.6	2.4	2.8	2.7	4.0	4.3	3.0	1.8	1.6	1.5
21	1.3	1.4	1.9	1.9	2.6	2.6	3.8	4.4	2.8	1.8	1.6	1.5
22	1.3	1.5	1.9	1.8	2.7	2.7	3.6	4.6	2.8	1.8	1.7	1.5
23	1.3	1.8	1.8	2.0	2.6	2.7	3.3	4.7	2.7	1.8	1.7	1.5
24	1.4	1.6	1.8	1.9	2.6	2.7	3.4	4.9	2.7	1.8	1.6	1.4
25	1.4	1.5	1.7	1.9	2.5	2.8	3.9	5.7	2.6	1.9	1.5	1.4
26	1.4	1.5	1.7	1.8	2.5	2.9	3.8	5.5	2.6	1.9	1.5	1.5
27	1.3	1.5	1.6	1.7	2.6	2.7	3.6	5.4	2.5	1.9	1.9	1.5
28	1.3	1.4	1.5	1.7	3.0	2.7	3.4	5.4	2.5	1.9	1.7	1.5
29	1.4	1.5	1.6	1.7	---	2.8	3.3	5.3	2.4	1.8	1.6	1.5
30	1.4	2.1	1.5	1.7	---	2.6	3.4	5.1	2.4	1.8	1.6	1.5
31	1.3	---	1.5	1.7	---	2.8	---	5.0	---	1.9	1.6	---
TOTAL	45.9	43.2	51.1	53.5	73.0	85.3	98.4	133.1	100.3	61.3	53.5	45.4
MEAN	1.48	1.44	1.65	1.73	2.61	2.75	3.28	4.29	3.34	1.98	1.73	1.51
MAX	1.7	2.1	1.9	2.4	4.6	3.4	4.0	5.7	5.4	2.3	2.3	1.6
MIN	1.2	1.3	1.5	1.5	1.6	2.5	2.7	3.3	2.4	1.8	1.5	1.4
AC-FT	91	86	101	106	145	169	195	264	199	122	106	90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

MEAN	1.36	1.68	1.59	1.90	1.88	2.11	2.17	2.61	2.44	1.83	1.60	1.37
MAX	3.48	3.49	3.64	5.82	3.72	3.86	3.38	4.73	6.84	5.30	7.29	4.20
(WY)	1970	1969	1971	1997	1970	1970	1997	1967	1983	1969	1969	1970
MIN	.69	.83	.77	.98	1.04	1.06	1.10	.98	.68	.51	.56	.56
(WY)	1980	1980	1993	1989	1991	1977	1994	1990	1994	1994	1994	1979

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1966 - 1999
ANNUAL TOTAL	934.0	844.0	
ANNUAL MEAN	2.56	2.31	1.92
HIGHEST ANNUAL MEAN			3.57
LOWEST ANNUAL MEAN			.95
HIGHEST DAILY MEAN	10 Jun 7	5.7 May 25	35 Jan 2 1997
LOWEST DAILY MEAN	1.2 Sep 15	1.2 Oct 20	.38 Oct 9 1979
ANNUAL SEVEN-DAY MINIMUM	1.3 Oct 31	1.3 Oct 31	.45 Jun 29 1994
INSTANTANEOUS PEAK FLOW		6.1 May 25	63 Aug 5 1971
INSTANTANEOUS PEAK STAGE		1.03 May 25	2.78 Aug 5 1971
ANNUAL RUNOFF (AC-FT)	1850	1670	1390
10 PERCENT EXCEEDS	3.6	3.7	3.4
50 PERCENT EXCEEDS	2.4	1.9	1.5
90 PERCENT EXCEEDS	1.4	1.4	.84

CARSON RIVER BASIN

10310447 AMBROSETTI POND NEAR GENOA, NV

LOCATION.--Lat 39°02'31", long 119°47'01", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.30, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right bank, 20 ft upstream of outlet gate structure, and 4.3 mi northeast of Genoa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,660 ft above sea level, from topographic map.

REMARKS.--Records poor. See schematic diagram of Carson River Basin.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.45 ft, January 20; no contents in pond May 17 to September 9 due to draining of pond for silt removal project by Carson City Water Utility Department.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.07	4.75	4.82	4.89	3.43	3.36	3.16	2.74	---	---	---	---
2	4.91	4.68	4.67	4.78	3.42	3.34	3.15	2.73	---	---	---	---
3	3.91	4.75	4.72	4.75	3.41	3.33	3.15	2.71	---	---	---	---
4	4.44	4.80	4.68	4.75	3.40	3.32	3.14	2.69	---	---	---	---
5	4.44	4.62	4.72	4.77	3.38	3.31	3.14	2.68	---	---	---	---
6	4.59	4.60	4.73	4.83	3.37	3.29	3.14	2.66	---	---	---	---
7	4.52	4.69	4.70	4.86	3.48	3.28	3.13	2.65	---	---	---	---
8	4.32	4.70	4.66	4.89	3.56	3.27	3.11	2.63	---	---	---	---
9	4.67	4.72	4.65	4.94	3.56	3.26	3.09	2.61	---	---	---	1.68
10	5.11	4.82	4.72	5.13	3.55	3.25	3.08	2.59	---	---	---	1.68
11	4.95	4.81	4.59	5.10	3.54	3.25	3.06	2.58	---	---	---	1.67
12	4.53	4.76	4.47	5.00	3.52	3.25	3.04	2.54	---	---	---	1.70
13	4.73	4.91	4.53	4.95	3.50	3.25	3.03	2.49	---	---	---	1.76
14	4.77	4.78	4.62	4.93	3.50	3.24	3.01	2.45	---	---	---	1.78
15	4.74	4.68	4.68	4.82	3.49	3.24	2.99	2.40	---	---	---	1.77
16	4.76	4.80	4.70	4.72	3.47	3.23	2.98	2.35	---	---	---	1.73
17	4.86	4.89	4.67	4.73	3.49	3.23	2.97	---	---	---	---	1.73
18	4.74	4.84	4.61	4.80	3.48	3.22	2.94	---	---	---	---	1.76
19	4.70	4.80	4.56	5.18	3.48	3.22	2.93	---	---	---	---	1.75
20	4.90	4.67	4.59	4.59	3.46	3.21	2.92	---	---	---	---	1.77
21	4.86	4.58	---	3.55	3.45	3.21	2.90	---	---	---	---	1.81
22	4.96	4.81	---	3.53	3.43	3.20	2.88	---	---	---	---	1.95
23	4.76	4.80	---	3.55	3.42	3.20	2.87	---	---	---	---	2.04
24	4.55	4.76	---	3.55	3.40	3.19	2.85	---	---	---	---	1.84
25	4.79	4.77	---	3.54	3.41	3.19	2.83	---	---	---	---	3.69
26	4.86	4.67	---	3.53	3.40	3.18	2.82	---	---	---	---	4.88
27	4.88	4.62	---	3.51	3.39	3.18	2.80	---	---	---	---	4.63
28	4.77	4.60	4.98	3.49	3.37	3.18	2.78	---	---	---	---	4.66
29	4.61	4.77	5.04	3.48	---	3.17	2.76	---	---	---	---	4.71
30	4.80	4.82	4.94	3.46	---	3.17	2.75	---	---	---	---	4.75
31	4.71	---	4.96	3.45	---	3.16	---	---	---	---	---	---
MAX	5.11	4.91	---	5.18	3.56	3.36	3.16	---	---	---	---	---
MIN	3.91	4.58	---	3.45	3.37	3.16	2.75	---	---	---	---	---

CARSON RIVER BASIN

10310448 AMBROSETTI POND OUTLET NEAR GENOA, NV

LOCATION.--Lat 39°02'32", long 119°47'00", in SW 1/4 SW 1/4 sec.30, T.14 N., R.20 E., Douglas County, Hydrologic Unit 16050201, on right gate of outlet structure, and 4.3 mi northeast of Genoa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,660 ft above sea level, from topographic map. Prior to October 1, 1995 at same site at datum 3.83 higher.

REMARKS.--Records poor. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown due to uncontrolled releases on many occasions; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown due to uncontrolled release during construction, February to June, gage height 6.73; no flow several day in September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	33	23	17	---	---	---	---	---	e15	8.5	7.9
2	55	34	22	14	---	---	---	---	---	e14	8.3	8.8
3	42	30	19	13	---	---	---	---	---	e13	8.3	7.6
4	29	34	15	13	---	---	---	---	---	e12	7.3	4.0
5	36	32	13	13	---	---	---	---	---	e11	7.6	1.2
6	39	29	13	13	---	---	e19	---	---	e10	8.1	2.1
7	44	29	13	13	---	---	---	---	---	e9.6	9.5	3.9
8	33	29	13	13	---	---	---	---	---	e9.2	9.7	.00
9	25	29	11	13	---	---	---	---	---	e8.6	7.4	.00
10	42	33	11	18	---	---	---	---	---	e8.0	7.1	.00
11	48	42	13	16	---	---	---	---	---	e7.6	10	.00
12	26	41	11	13	---	---	---	---	---	e7.0	9.3	.00
13	14	42	8.9	15	---	---	---	---	---	e7.2	12	.00
14	17	48	8.9	17	---	---	---	---	---	e7.4	17	.00
15	14	36	8.9	17	---	---	---	---	---	e7.6	15	.00
16	13	29	8.9	17	---	---	---	---	---	e7.8	20	.00
17	15	34	8.9	17	---	---	---	e21	---	e8.0	20	.00
18	22	37	8.9	17	---	---	---	---	---	e8.2	20	.00
19	16	37	6.5	24	---	---	---	---	---	e8.4	15	.00
20	19	33	5.4	e24	---	---	---	---	---	e8.6	11	.00
21	21	23	5.4	e24	---	---	---	---	---	e8.9	9.7	.00
22	31	22	5.2	e23	---	---	---	---	e44	9.1	10	.00
23	34	25	4.9	e23	e19	---	---	---	---	6.3	11	.00
24	23	25	4.9	e23	---	---	---	---	---	5.4	7.1	.00
25	22	25	4.9	e23	---	---	---	---	---	6.1	4.3	.00
26	30	21	3.1	e23	---	---	---	---	---	6.2	4.8	4.9
27	34	19	3.6	e22	---	---	---	---	---	8.6	4.3	8.5
28	39	16	8.8	e22	---	---	---	---	---	8.5	4.3	6.4
29	27	17	15	e22	---	---	---	---	---	8.6	3.4	6.4
30	29	19	14	e22	---	---	---	---	e16	8.6	4.5	4.5
31	31	---	15	e22	---	---	---	---	---	9.3	6.0	---
TOTAL	909	903	327.1	566	---	---	---	---	---	273.8	300.5	66.20
MEAN	29.3	30.1	10.6	18.3	---	---	---	---	---	8.83	9.69	2.21
MAX	55	48	23	24	---	---	---	---	---	15	20	8.8
MIN	13	16	3.1	13	---	---	---	---	---	5.4	3.4	.00
AC-FT	1800	1790	649	1120	---	---	---	---	---	543	596	131

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	12.0	16.8	13.4	26.8	19.6	18.9	12.0	20.2
MAX	29.3	36.2	34.2	81.6	34.1	29.7	28.8	42.3
(WY)	1999	1997	1997	1998	1995	1997	1996	1997
MIN	2.00	2.13	2.24	2.02	1.76	1.61	.58	.53
(WY)	1993	1993	1993	1993	1993	1993	1993	1994

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

WATER YEARS 1992 - 1999

ANNUAL TOTAL	7509.03	
ANNUAL MEAN	20.6	17.2
HIGHEST ANNUAL MEAN		26.8
LOWEST ANNUAL MEAN		8.34
HIGHEST DAILY MEAN	114	200
LOWEST DAILY MEAN	.10	.00
ANNUAL SEVEN-DAY MINIMUM	.14	.00
ANNUAL RUNOFF (AC-FT)	14890	12480
10 PERCENT EXCEEDS	39	32
50 PERCENT EXCEEDS	17	9.5
90 PERCENT EXCEEDS	5.7	.61

e Estimated

CARSON RIVER BASIN

10310500 CLEAR CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°06'48", long 119°47'50", in NE 1/4 NW 1/4 sec.1, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, on left bank, 3 mi upstream from mouth, and 3.5 mi southwest of Carson City.

DRAINAGE AREA.--15.5 mi²

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 fair except for estimated daily discharges, which are poor. A few small diversions for irrigation above station. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 266 ft³/s, January 2, 1997, gage height, 3.94 ft; minimum daily, 0.42 ft³/s, August 3, 1992.

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

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Jan 20	0545	23	1.86	Feb 28	2315	*42	*2.22
Feb 07	0830	*42	*2.22	Apr 20	2045	23	1.87
Feb 17	0300	33	2.08	May 25	0430	21	1.84

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	8.6	11	6.6	9.4	20	15	16	15	7.7	e5.0	4.4
2	6.2	7.6	11	6.8	9.3	16	14	16	16	e7.6	e5.0	4.5
3	6.3	7.3	11	7.1	9.7	18	14	16	16	e7.5	e4.9	4.5
4	6.3	7.2	10	7.5	10	16	14	14	16	e7.5	e4.8	4.5
5	6.1	7.2	9.7	8.4	9.8	15	14	15	16	e7.4	4.7	4.5
6	6.2	7.3	9.8	8.9	9.8	14	14	16	15	e7.3	5.5	4.4
7	6.1	7.5	9.9	8.7	24	14	14	18	13	e7.2	5.5	4.4
8	5.9	7.2	9.7	8.5	16	13	14	17	13	e7.1	5.2	4.2
9	5.9	7.0	9.4	8.6	22	13	13	16	13	e7.2	4.8	4.3
10	5.9	7.1	9.4	8.6	15	13	13	16	12	e7.2	5.9	4.6
11	6.1	7.6	9.7	8.7	14	13	14	17	12	e7.1	5.5	4.7
12	6.0	7.3	9.8	8.7	13	13	14	18	12	e6.7	5.3	4.6
13	6.1	7.3	9.8	8.7	13	13	15	18	11	e6.7	5.0	4.4
14	6.2	7.4	9.6	8.8	12	13	15	17	11	e6.6	4.9	4.5
15	6.2	7.3	9.4	9.5	12	13	14	16	11	e6.5	4.9	4.4
16	6.4	7.3	9.3	12	12	13	15	15	11	e6.4	4.8	4.3
17	6.5	7.9	9.4	9.9	22	14	16	16	10	e6.3	4.7	4.2
18	6.5	7.5	9.4	14	15	14	17	16	9.9	e6.3	4.8	4.7
19	6.5	7.4	9.2	16	13	15	19	16	9.5	e6.2	4.6	4.9
20	6.4	7.2	9.3	19	13	14	20	16	9.4	e6.1	4.6	4.6
21	6.5	7.1	8.7	13	12	14	20	16	9.2	e6.0	4.5	4.5
22	6.4	8.4	8.4	12	12	14	18	16	9.3	e5.9	4.6	4.6
23	6.2	8.9	e8.1	14	13	14	15	17	9.0	e5.8	4.8	4.7
24	6.3	9.4	e7.8	11	13	14	14	17	8.8	e5.7	4.7	4.6
25	7.0	8.3	e7.6	11	12	15	16	20	8.5	e5.6	4.6	4.6
26	6.9	7.9	7.3	11	12	16	18	20	8.5	e5.5	4.7	4.6
27	6.8	7.9	6.3	10	13	16	17	19	8.3	e5.5	4.9	4.5
28	6.6	8.0	6.3	10	17	15	16	18	8.4	e5.4	4.7	4.5
29	6.9	9.4	6.3	10	---	15	15	17	8.3	e5.3	4.3	4.5
30	6.9	13	6.3	10	---	14	15	16	8.2	e5.3	4.3	4.4
31	6.8	---	6.7	10	---	15	---	16	---	e5.2	4.5	---
TOTAL	197.5	236.5	275.6	317.0	378.0	449	462	517	338.3	199.8	151.0	135.1
MEAN	6.37	7.88	8.89	10.2	13.5	14.5	15.4	16.7	11.3	6.45	4.87	4.50
MAX	7.0	13	11	19	24	20	20	20	16	7.7	5.9	4.9
MIN	5.9	7.0	6.3	6.6	9.3	13	13	14	8.2	5.2	4.3	4.2
AC-FT	392	469	547	629	750	891	916	1030	671	396	300	268

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1999, BY WATER YEAR (WY)

	MEAN	3.02	4.35	5.62	7.19	7.29	8.38	9.52	8.70	5.50	3.17	2.49	2.52
MAX	6.54	11.2	15.3	36.3	16.4	19.3	30.9	26.8	15.5	8.09	6.01	5.77	
(WY)	1953	1951	1951	1997	1997	1997	1952	1952	1998	1952	1997	1997	
MIN	1.31	1.89	2.31	2.13	3.24	3.36	2.80	1.39	1.12	.75	.67	1.00	
(WY)	1995	1962	1962	1962	1991	1992	1992	1992	1994	1994	1994	1994	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1948 - 1999			
ANNUAL TOTAL	3689.5				3656.8							
ANNUAL MEAN	10.1				10.0				5.71			
HIGHEST ANNUAL MEAN									13.4			
LOWEST ANNUAL MEAN									2.09			
HIGHEST DAILY MEAN	61				24				198			
LOWEST DAILY MEAN	3.3				4.2				.42			
ANNUAL SEVEN-DAY MINIMUM	4.3				4.4				.44			
INSTANTANEOUS PEAK FLOW					42				266			
INSTANTANEOUS PEAK STAGE					2.22				3.94			
ANNUAL RUNOFF (AC-FT)	7320				7250				4140			
10 PERCENT EXCEEDS	17				16				12			
50 PERCENT EXCEEDS	8.6				9.0				4.2			
90 PERCENT EXCEEDS	5.2				4.7				1.5			

e Estimated

CARSON RIVER BASIN

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, 5 mi southeast of Carson City Post Office, and at mi 70.4 upstream from Lahontan Reservoir.

DRAINAGE AREA.--886 mi².

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.--Records good except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft³/s, January 3, 1997, gage height, 18.43 ft; no flow September 5, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 08	0418	2190	5.40	June 16	1841	2040	5.30
May 28	2017	*3660	*6.84				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	343	226	433	279	316	454	440	847	2530	743	78	55
2	326	226	402	253	294	455	433	1020	2340	745	71	57
3	298	224	337	243	299	448	417	1060	2050	781	60	50
4	271	218	339	e237	308	520	407	835	1790	751	55	54
5	267	214	279	e246	311	458	415	729	1520	670	61	67
6	242	201	276	246	303	417	422	835	1440	601	63	72
7	232	214	274	249	585	392	437	1200	1530	481	70	65
8	234	210	268	241	1810	373	460	1510	1440	344	78	53
9	221	217	277	242	1610	380	420	1620	1300	301	104	50
10	253	220	272	253	1370	366	429	1570	1210	302	107	57
11	245	233	263	263	826	382	407	1510	1270	307	101	61
12	249	249	271	258	635	385	423	1770	1400	315	94	61
13	215	233	271	262	572	364	492	2180	1540	284	96	65
14	213	251	270	268	551	373	596	2020	1740	223	94	68
15	213	251	257	276	521	364	612	1690	1830	188	87	60
16	203	235	254	319	522	357	558	1550	1880	148	89	56
17	204	239	257	351	716	363	568	1560	1880	124	98	55
18	199	245	258	338	729	396	702	1730	1810	132	85	54
19	202	228	253	645	565	434	895	1780	1800	135	81	62
20	191	233	217	825	499	446	995	1810	1730	149	75	79
21	198	221	e207	711	488	431	1060	1880	1650	132	63	84
22	210	219	e188	441	471	404	1050	2060	1570	125	64	80
23	216	242	e206	428	452	401	1000	2400	1490	105	80	73
24	209	296	204	532	425	418	841	2820	1450	114	81	67
25	215	313	247	435	421	432	763	3050	1430	133	65	59
26	247	278	291	407	416	447	905	3260	1230	135	60	59
27	248	258	283	379	405	502	1140	3410	1090	133	49	69
28	247	254	313	350	413	520	1130	3430	1000	102	48	69
29	231	251	310	328	---	491	1030	3520	943	83	48	57
30	254	281	311	333	---	459	915	3150	794	73	48	64
31	239	---	294	331	---	434	---	2690	---	73	53	---
TOTAL	7335	7180	8582	10969	16833	13066	20362	60496	46677	8932	2306	1882
MEAN	237	239	277	354	601	421	679	1951	1556	288	74.4	62.7
MAX	343	313	433	825	1810	520	1140	3520	2530	781	107	84
MIN	191	201	188	237	294	357	407	729	794	73	48	50
AC-FT	14550	14240	17020	21760	33390	25920	40390	120000	92580	17720	4570	3730

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1940	99.5	527	1983	7.69	1978
1941	210	1693	1951	46.6	1978
1942	292	1992	1951	52.4	1989
1943	378	3171	1997	76.4	1991
1944	398	2115	1986	62.7	1991
1945	427	1573	1986	73.7	1977
1946	616	1467	1982	46.4	1977
1947	1211	3129	1969	93.9	1977
1948	1004	4099	1983	47.7	1988
1949	280	1764	1995	11.6	1977
1950	61.1	657	1983	2.81	1977
1951	48.9	281	1983	1.96	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	240126	204620	
ANNUAL MEAN	658	561	418
HIGHEST ANNUAL MEAN			1142
LOWEST ANNUAL MEAN			58.5
HIGHEST DAILY MEAN	3880	May 25	26100
LOWEST DAILY MEAN	53	Sep 4	.00
ANNUAL SEVEN-DAY MINIMUM	68	Aug 30	1.5
INSTANTANEOUS PEAK FLOW			30500
INSTANTANEOUS PEAK STAGE		6.84	18.43
ANNUAL RUNOFF (AC-FT)	476300	405900	303100
10 PERCENT EXCEEDS	1690	1550	1120
50 PERCENT EXCEEDS	339	307	186
90 PERCENT EXCEEDS	127	69	22

e Estimated

CARSON RIVER BASIN

10311089 NORTH FORK KINGS CANYON DIVERSION NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'18", long 119°48'58", in NE 1/4 NW 1/4 sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on left bank, 2.9 mi west of Carson Street off Kings Canyon Road.

DRAINAGE AREA--1.83 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.--Records fair except for estimated daily discharges, which are poor. Periodic regulation for municipal use. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5.2 ft³/s, August 17, 1998, maximum gage height, 3.96 ft, January 2, 1997; no flow, March 9, 1995 and May 14, 15, 21, 1998.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	3.1	3.1	e2.6	1.2	2.5	3.3	2.3	3.8	3.8	3.0	1.7
2	.63	3.6	3.1	e2.5	1.2	2.5	3.2	2.8	3.8	3.7	3.1	.97
3	1.2	3.2	3.1	e2.5	1.3	2.5	2.5	3.6	3.7	2.5	3.0	.96
4	3.2	3.4	2.9	e2.5	1.2	2.4	3.1	2.6	3.4	4.0	1.7	1.4
5	3.4	3.4	1.6	e2.5	1.2	2.6	3.1	2.7	2.7	3.5	.93	2.9
6	3.6	3.2	3.4	e2.5	.65	2.1	3.0	2.9	3.6	3.4	.96	2.9
7	4.2	2.4	3.3	e2.5	1.1	2.7	3.0	2.9	3.5	3.8	1.5	2.9
8	5.1	3.4	3.2	e2.4	1.2	2.7	2.9	2.3	3.5	3.6	2.9	1.7
9	4.3	3.2	3.1	e2.4	1.4	2.7	3.1	2.9	3.5	3.6	3.3	.80
10	2.5	3.3	3.1	e2.4	1.4	3.0	2.4	2.9	3.5	2.5	3.0	.78
11	4.2	3.3	3.1	2.4	2.0	2.9	2.9	2.9	3.5	3.7	1.7	1.3
12	3.2	3.3	2.8	2.4	2.0	3.0	2.9	3.0	2.9	3.8	1.1	2.9
13	3.1	3.3	2.6	2.4	1.9	2.4	3.1	2.9	3.9	3.7	1.1	2.9
14	4.3	2.4	2.7	2.4	1.5	3.1	3.0	2.8	4.1	3.6	1.6	2.8
15	4.4	3.0	2.7	2.4	1.5	3.2	2.9	2.2	4.0	3.7	3.2	1.5
16	3.8	3.1	2.7	1.6	1.5	3.3	3.0	2.8	4.1	3.6	3.1	.80
17	2.8	3.1	2.7	2.3	1.7	3.4	2.5	2.9	4.4	2.5	3.1	.79
18	3.6	3.2	2.7	2.3	1.7	3.5	3.4	2.8	4.0	3.8	1.9	1.3
19	3.6	3.1	2.0	2.3	1.8	3.6	3.3	2.8	3.0	3.8	.99	2.7
20	3.7	3.1	2.7	2.2	1.2	2.9	3.2	2.9	4.2	3.5	.95	2.6
21	3.3	2.1	e2.7	2.1	1.7	3.7	3.2	2.9	4.4	2.3	1.4	2.7
22	3.8	2.8	e2.7	2.0	1.8	3.7	3.1	2.3	4.4	1.2	3.0	1.6
23	3.7	3.0	e2.7	1.4	1.8	3.6	3.0	3.0	3.7	1.1	3.0	.80
24	2.6	3.0	e2.7	1.9	1.9	3.6	2.3	3.1	3.3	1.8	3.1	.79
25	3.6	3.2	e2.7	1.7	2.0	3.7	3.0	3.4	3.7	3.7	1.7	1.3
26	3.5	3.2	e2.7	1.5	2.0	3.7	3.0	3.6	2.5	3.5	.96	2.8
27	3.4	3.1	e2.6	1.4	1.6	3.0	3.0	3.7	3.6	3.1	.96	2.8
28	3.4	2.4	e2.6	1.5	2.3	3.5	2.9	3.1	3.7	1.8	1.5	2.8
29	3.6	3.2	e2.6	1.3	---	3.4	2.8	1.3	4.2	1.0	3.1	1.5
30	3.4	3.2	e2.6	.87	---	3.4	2.9	3.5	4.1	1.0	3.1	.81
31	2.7	---	e2.6	1.3	---	3.3	---	3.6	---	1.5	3.0	---
TOTAL	102.50	92.3	85.8	64.47	43.75	95.6	89.0	89.4	110.7	92.1	66.95	54.50
MEAN	3.31	3.08	2.77	2.08	1.56	3.08	2.97	2.88	3.69	2.97	2.16	1.82
MAX	5.1	3.6	3.4	2.6	2.3	3.7	3.4	3.7	4.4	4.0	3.3	2.9
MIN	.63	2.1	1.6	.87	.65	2.1	2.3	1.3	2.5	1.0	.93	.78
AC-FT	203	183	170	128	87	190	177	177	220	183	133	108

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	1.34	1.74	1.50	1.31	1.17	1.36	1.39	1.42	1.93	1.89	1.59	1.24
MAX	3.31	3.69	3.05	3.15	2.52	3.08	3.17	3.77	4.65	4.50	3.25	2.66
(WY)	1999	1996	1997	1998	1998	1999	1997	1997	1996	1996	1995	1996
MIN	.32	.28	.29	.29	.33	.38	.22	.17	.23	.23	.20	.25
(WY)	1992	1993	1992	1992	1992	1992	1989	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1989 - 1999		
ANNUAL TOTAL	933.47			987.07					
ANNUAL MEAN	2.56			2.70			1.53		
HIGHEST ANNUAL MEAN							2.90		
LOWEST ANNUAL MEAN							.31		
HIGHEST DAILY MEAN	5.2 Aug 17			5.1 Oct 8			5.7 Jan 7 1997		
LOWEST DAILY MEAN	.00 May 14			.63 Oct 2			.00 Mar 9 1995		
ANNUAL SEVEN-DAY MINIMUM	.45 May 14			1.1 Feb 1			.11 May 17 1992		
ANNUAL RUNOFF (AC-FT)	1850			1960			1110		
10 PERCENT EXCEEDS	3.6			3.7			3.4		
50 PERCENT EXCEEDS	2.7			2.9			.93		
90 PERCENT EXCEEDS	1.0			1.3			.26		

e Estimated

CARSON RIVER BASIN

10311090 NORTH FORK KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'17" long 119°48'58" in NE 1/4 NW 1/4 sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on right bank, off Kings Canyon Road, 2.9 mi west of Carson Street.

DRAINAGE AREA.--1.83 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.--Records fair except for estimated daily discharges, which are poor. Periodic diversions for municipal use. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 140 ft³/s, January 2, 1997, gage height, 3.96 ft; no flow some days, some years, due to gate regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11 ft³/s, October 16, gage height, 2.72 ft; no flow several days in February.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.9	1.5	.45	e.26	.21	.25	.46	.93	.31	.30	.42	1.8
2	e3.4	.58	.47	e.80	.22	.26	.43	.40	.17	.46	.15	2.7
3	e3.4	.93	.47	e.39	.14	.44	1.1	.47	.22	2.0	.21	2.7
4	e1.3	.79	e.47	e.34	.18	1.4	.42	.54	.28	.06	1.9	2.1
5	e1.3	.76	e1.4	e.28	.19	.21	.45	.42	.79	.45	3.0	.34
6	e1.3	.96	e.60	e.29	.76	.83	.53	.34	.23	.55	3.0	.37
7	e1.7	1.6	e.80	e.28	1.2	.12	.48	.35	.13	.21	2.3	.37
8	e1.7	.62	e.22	e.27	.98	.16	.46	.96	.36	.32	.50	1.6
9	e1.5	.87	e.40	e.72	.21	.21	.44	.24	.14	.40	.15	2.8
10	e2.0	.72	e.43	e.29	1.7	.42	.91	.24	.22	1.8	.48	2.8
11	e1.5	.54	e.70	e.26	1.4	.17	.43	.25	.19	.25	1.9	2.2
12	e1.5	.44	e.90	e.23	.00	.19	.45	.32	.76	.28	2.6	.37
13	e4.2	.46	.35	e.22	.20	.87	.33	.27	.31	.33	2.6	.37
14	e4.2	1.4	.30	e.23	.00	.30	.36	.30	.22	.30	2.1	.40
15	e5.0	.71	.29	e.28	.00	.28	.42	.98	.67	.25	.24	1.9
16	6.0	.74	.30	1.4	.00	.27	.39	.21	.63	.25	.21	2.7
17	4.9	.82	.36	.08	.13	.30	.93	.22	.08	1.6	.24	2.7
18	2.7	.45	.32	.09	.20	.30	.14	.23	.83	.23	1.6	2.2
19	2.2	.47	1.5	.14	.21	.27	.33	.35	1.5	.30	2.7	.55
20	.16	.47	2.0	.13	.79	.89	.51	.30	.22	.35	2.9	.62
21	.62	1.6	e.26	.12	.29	.18	.45	.25	.29	1.6	2.3	.49
22	.03	1.2	e.29	.22	.32	.30	.38	.98	.23	3.1	.32	1.8
23	.20	1.1	e.25	.85	.28	.36	.25	.30	.83	3.0	.39	2.7
24	1.4	1.5	e.22	.14	.24	.30	.97	.24	1.0	2.4	.30	2.7
25	.53	.33	e.32	.14	.21	.21	.47	.09	.65	.25	1.9	2.1
26	.54	.35	e.80	.19	.21	.41	.48	.09	1.9	.22	2.8	.31
27	.57	.40	e.37	.22	.81	.98	.43	.17	.53	.30	2.8	.37
28	.89	1.3	e.32	.40	.16	.34	.42	.33	.43	2.1	2.2	.48
29	.48	.48	e.22	.33	---	.43	.40	3.4	.29	3.0	.15	1.9
30	1.1	.58	e.23	.76	---	.46	.29	.64	.22	3.0	.16	2.7
31	1.2	---	e.27	.25	---	.45	---	.48	---	2.4	.26	---
TOTAL	59.42	24.67	16.28	10.60	11.24	12.56	14.51	15.29	14.63	32.06	42.78	47.14
MEAN	1.92	.82	.53	.34	.40	.41	.48	.49	.49	1.03	1.38	1.57
MAX	6.0	1.6	2.0	1.4	1.7	1.4	1.1	3.4	1.9	3.1	3.0	2.8
MIN	.03	.33	.22	.08	.00	.12	.14	.09	.08	.06	.15	.31
AC-FT	118	49	32	21	22	25	29	30	29	64	85	94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.92	.49	.38	.63	.36	.44	.48	.66	.71	.88	.97
MAX	1.92	.82	.55	3.09	.53	.80	1.02	1.09	1.99	2.12	1.68
(WY)	1999	1999	1992	1997	1992	1995	1989	1989	1997	1997	1997
MIN	.38	.25	.20	.15	.16	.18	.24	.48	.38	.29	.22
(WY)	1993	1995	1993	1995	1993	1993	1993	1994	1990	1994	1994

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1989 - 1999

ANNUAL TOTAL	324.71	301.18	
ANNUAL MEAN	.89	.83	.66
HIGHEST ANNUAL MEAN			1.25
LOWEST ANNUAL MEAN			.40
HIGHEST DAILY MEAN	6.0 Oct 16	6.0 Oct 16	34 Jan 2 1997
LOWEST DAILY MEAN	.00 Jan 9	.00 Feb 12	.00 Feb 25 1990
ANNUAL SEVEN-DAY MINIMUM	.15 Jan 5	.08 Feb 12	.00 Dec 24 1997
INSTANTANEOUS PEAK FLOW		11 Oct 16	140 Jan 2 1997
INSTANTANEOUS PEAK STAGE		2.72 Oct 16	3.96 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	644	597	475
10 PERCENT EXCEEDS	2.3	2.2	1.6
50 PERCENT EXCEEDS	.47	.42	.42
90 PERCENT EXCEEDS	.11	.19	.16

e Estimated

CARSON RIVER BASIN

10311100 KINGS CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°09'14", long 119°48'24", in NE 1/4 NE 1/4 sec.23, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, on right bank, off Kings Canyon Road, 2 mi west of Carson Street.

DRAINAGE AREA.--4.06 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.--Records fair. Diversion for municipal use above station. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 276 ft³/s, January 2, 1997, gage height, 5.42 ft; maximum gage height, 5.44 ft, February 19, 1986; minimum daily, 0.02 ft³/s, August 1, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13 ft³/s, February 7, gage height, 4.53 ft; minimum daily, 0.31 ft³/s, October 11 and September 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.5	1.1	.76	.91	2.8	1.3	1.5	1.2	e1.2	e.40	2.0
2	2.6	.79	.97	1.3	.90	1.9	1.4	1.2	1.2	e1.4	e.35	2.8
3	2.2	.89	.95	.79	.87	2.2	1.9	1.1	1.2	e2.3	e.40	2.7
4	.48	.88	.97	e.74	.88	2.8	1.5	1.1	1.2	e1.0	e2.3	2.3
5	.46	.90	1.9	.68	.86	1.6	1.5	.99	1.8	e1.1	2.4	.68
6	.38	1.1	1.1	.69	1.7	2.1	1.5	.95	.92	e1.3	2.5	.61
7	.46	1.9	1.3	.68	6.5	1.4	1.7	.96	1.0	e1.1	2.1	.68
8	.80	.83	.77	.66	4.8	1.3	1.6	1.4	.98	e1.2	.71	1.8
9	.67	.89	.80	1.2	6.4	1.4	1.6	.98	.91	e1.3	.38	2.8
10	1.4	.84	.83	.79	2.5	1.5	2.0	.94	.92	1.8	.76	3.0
11	.31	.80	e1.2	.76	1.7	1.5	1.7	.92	.95	.67	1.9	2.4
12	1.2	.83	1.5	.73	1.7	1.3	1.5	.89	1.6	.67	2.5	.74
13	2.7	.79	.82	.72	2.3	1.9	1.4	.82	.78	.70	2.5	.66
14	3.2	1.6	.77	.73	1.7	1.3	1.3	.83	e.60	.69	2.1	.65
15	3.2	.91	.76	.78	1.6	1.3	1.3	1.2	e1.3	.60	.44	1.9
16	2.0	e.91	.83	2.1	1.9	1.3	1.3	.72	e1.2	.56	.52	2.7
17	1.6	.99	.82	.76	4.3	1.2	1.7	.70	e.60	1.6	.41	2.6
18	.77	.80	.81	1.4	2.3	1.2	1.1	.72	e1.2	.59	1.5	2.2
19	.78	.78	1.5	1.8	2.0	1.2	1.2	.79	e2.0	.60	2.6	.69
20	.66	.74	1.0	2.9	2.5	1.8	1.3	.76	e.80	.63	2.7	.69
21	.99	1.5	.76	1.2	1.9	1.1	1.3	.69	e.90	1.6	2.3	.60
22	.56	1.1	.79	1.2	1.8	1.0	1.3	1.2	e.80	2.6	.75	1.6
23	.70	1.1	.75	2.3	1.9	.91	1.2	.72	e1.1	2.5	.74	2.4
24	1.6	1.8	.72	.96	1.8	.87	1.7	.69	e1.3	2.0	.67	2.3
25	.74	.66	.82	.91	1.7	.81	1.3	.57	e1.0	.43	1.9	1.9
26	.78	.63	1.3	.99	1.7	.96	1.3	.47	e2.5	e.40	2.7	.31
27	.74	.68	.87	.94	2.3	1.3	1.1	.53	e1.4	e.47	2.8	.39
28	.84	1.5	.82	.75	2.4	.94	1.0	1.6	e1.2	e2.2	2.2	.48
29	.79	1.0	.72	.93	---	1.0	1.1	3.4	e1.1	e2.4	.49	1.6
30	1.0	1.1	.73	1.4	---	1.0	1.1	1.4	e1.0	e2.4	.57	2.4
31	1.4	---	.77	.92	---	1.2	---	1.3	---	e2.2	.79	---
TOTAL	38.61	30.74	29.75	33.47	63.82	44.09	42.2	32.04	34.66	40.21	45.38	48.58
MEAN	1.25	1.02	.96	1.08	2.28	1.42	1.41	1.03	1.16	1.30	1.46	1.62
MAX	3.2	1.9	1.9	2.9	6.5	2.8	2.0	3.4	2.5	2.6	2.8	3.0
MIN	.31	.63	.72	.66	.86	.81	1.0	.47	.60	.40	.35	.31
AC-FT	77	61	59	66	127	87	84	64	69	80	90	96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1999, BY WATER YEAR (WY)

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1.39	1.25	1.18	1.47	1.73	1.70	1.43	1.22	1.65	1.62	1.51	1.34												
MAX	5.69	5.41	5.13	7.96	6.86	4.41	4.33	4.53	8.29	8.01	7.04	4.97												
(WY)	1984	1984	1984	1997	1986	1983	1982	1983	1983	1983	1983	1983												
MIN	.13	.16	.17	.19	.30	.37	.28	.24	.22	.093	.075	.15												
(WY)	1993	1993	1994	1993	1993	1992	1993	1992	1992	1994	1994	1992												

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1976 - 1999
ANNUAL TOTAL	466.25	483.55	
ANNUAL MEAN	1.28	1.32	1.47
HIGHEST ANNUAL MEAN			4.58
LOWEST ANNUAL MEAN			.35
HIGHEST DAILY MEAN	8.6 Mar 24	6.5 Feb 7	66 Jan 2 1997
LOWEST DAILY MEAN	.12 Aug 25	.31 Oct 11	.02 Aug 1 1994
ANNUAL SEVEN-DAY MINIMUM	.57 Jul 15	.64 Oct 5	.05 Oct 17 1992
INSTANTANEOUS PEAK FLOW		13 Feb 7	276 Jan 2 1997
INSTANTANEOUS PEAK STAGE		4.53 Feb 7	5.44 Feb 19 1986
ANNUAL RUNOFF (AC-FT)	925	959	1060
10 PERCENT EXCEEDS	2.4	2.4	3.2
50 PERCENT EXCEEDS	.95	1.1	.92
90 PERCENT EXCEEDS	.52	.66	.26

e Estimated

CARSON RIVER BASIN

10311200 ASH CANYON CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°10'35", long 119°48'17" (revised), 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. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 330 ft³/s, January 2, 1997, gage height, 4.95 ft; minimum daily, 0.47 ft³/s, August 19, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 01	0615	9.6	3.85	May 25	1715	17	3.97
Feb 07	1830	*31	*4.13	Aug 05	0915	10	3.89
Apr 25	1730	28	4.11				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	6.7	e7.0	3.3	3.4	6.7	4.4	6.7	13	7.7	4.2	3.7
2	3.3	6.0	e7.0	3.4	3.4	6.2	4.3	6.4	12	7.3	3.9	3.6
3	3.5	5.7	e7.0	3.6	3.4	6.7	4.2	6.1	11	6.6	3.9	3.5
4	3.7	5.2	e6.2	4.0	3.6	6.2	4.2	6.0	10	5.9	4.5	3.4
5	3.9	5.0	e6.0	5.1	5.0	5.3	4.1	6.4	11	5.7	4.6	3.3
6	3.9	5.4	e5.8	e5.4	5.8	5.0	4.1	7.4	12	6.4	5.1	3.1
7	3.9	5.1	e5.9	e5.2	14	4.9	4.1	6.9	11	6.1	4.6	3.0
8	3.9	4.5	e5.8	e5.2	7.3	4.6	4.0	6.0	10	5.9	4.3	2.9
9	3.9	4.6	e5.6	e5.2	9.3	4.5	3.9	5.7	9.2	5.5	4.3	2.9
10	4.0	4.6	e5.9	e5.2	7.1	4.3	3.9	5.6	9.0	5.3	5.3	3.0
11	4.3	4.8	e6.0	e5.3	7.3	4.2	4.1	6.9	9.4	5.2	4.9	3.2
12	4.2	4.7	e6.0	e5.4	5.4	4.2	4.5	9.2	10	4.7	4.7	3.0
13	4.2	4.8	e6.0	e5.5	4.5	4.3	5.3	7.8	11	4.9	4.2	2.8
14	4.1	4.6	e5.8	e5.8	4.5	4.3	5.7	6.7	11	4.4	4.4	2.8
15	4.0	4.1	e5.6	e6.1	4.9	4.2	5.5	5.9	10	4.1	4.2	2.8
16	4.1	4.1	e5.6	e6.5	4.5	4.2	6.0	6.0	9.7	4.0	4.3	2.7
17	3.9	4.2	e5.7	e6.3	6.9	4.5	6.8	6.5	11	3.9	4.4	2.7
18	4.0	4.1	e5.7	e7.0	5.3	4.9	7.3	e6.8	11	4.1	4.4	3.5
19	4.0	4.4	e5.6	e7.2	4.9	5.3	8.2	e7.2	9.6	4.2	4.1	3.7
20	4.3	4.6	e5.3	e7.8	4.6	5.0	10	e7.5	8.2	3.9	3.7	3.6
21	4.4	4.8	e5.0	4.8	4.6	4.7	11	e8.0	8.3	4.0	3.3	3.5
22	4.2	4.8	e4.9	4.4	4.4	4.7	10	9.7	9.3	4.3	3.6	3.1
23	4.3	5.4	e4.8	4.7	4.4	4.7	7.8	11	9.7	4.5	3.7	3.3
24	5.0	5.1	e4.6	4.2	4.5	4.8	8.9	12	8.2	4.4	3.7	3.1
25	4.7	5.1	e4.5	4.0	4.6	5.4	14	12	7.8	4.4	3.9	3.1
26	4.6	e5.2	e4.4	3.9	4.3	5.9	9.4	12	7.5	4.6	4.0	2.8
27	4.4	e5.2	e3.1	3.7	4.6	5.7	6.9	12	7.9	4.4	3.9	3.2
28	4.5	e5.3	e3.1	3.7	5.3	5.2	6.3	13	7.8	4.1	3.8	3.2
29	4.4	e6.2	3.1	3.7	---	5.1	5.5	11	8.6	4.3	3.7	3.1
30	4.1	e9.0	3.1	3.6	---	4.9	5.6	11	7.8	4.4	3.7	3.5
31	4.0	---	3.2	3.6	---	4.7	---	11	---	4.4	3.8	---
TOTAL	127.2	153.3	163.3	152.8	151.8	155.3	190.0	256.4	292.0	153.6	129.1	95.1
MEAN	4.10	5.11	5.27	4.93	5.42	5.01	6.33	8.27	9.73	4.95	4.16	3.17
MAX	5.0	9.0	7.0	7.8	14	6.7	14	13	13	7.7	5.3	3.7
MIN	3.3	4.1	3.1	3.3	3.4	4.2	3.9	5.6	7.5	3.9	3.3	2.7
AC-FT	252	304	324	303	301	308	377	509	579	305	256	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 1999, BY WATER YEAR (WY)

	MEAN	2.54	2.89	3.03	3.24	3.42	3.80	4.20	5.59	5.93	3.58	2.67	2.38
MAX	6.03	7.57	9.32	11.5	8.82	7.48	7.59	11.8	19.6	12.6	9.25	6.49	
(WY)	1984	1984	1997	1997	1986	1986	1997	1984	1983	1983	1983	1983	1983
MIN	.96	1.06	1.45	1.66	1.61	1.59	1.74	1.40	.83	.65	.54	.67	
(WY)	1993	1993	1995	1991	1993	1992	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1976 - 1999

ANNUAL TOTAL	2064.9	2019.9	
ANNUAL MEAN	5.66	5.53	3.62
HIGHEST ANNUAL MEAN			7.77
LOWEST ANNUAL MEAN			1.26
HIGHEST DAILY MEAN	32	14	70
LOWEST DAILY MEAN	2.6	2.7	.47
ANNUAL SEVEN-DAY MINIMUM	3.0	2.9	.49
INSTANTANEOUS PEAK FLOW		31	330
INSTANTANEOUS PEAK STAGE		4.13	4.95
ANNUAL RUNOFF (AC-FT)	4100	4010	2620
10 PERCENT EXCEEDS	7.9	9.2	7.0
50 PERCENT EXCEEDS	4.6	4.8	2.6
90 PERCENT EXCEEDS	3.5	3.5	1.2

e Estimated

CARSON RIVER BASIN

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 poor. Flows prior to September 1986 included effluent from Carson City Water Treatment Plant. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s, February 19, 1986, gage height, 8.85 ft; maximum gage height, 9.32 ft, January 2, 1997; no flow many days July to September 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 227 ft³/s, January 18, gage height, 6.97 ft; minimum daily, 0.07 ft³/s, July 30, 31 and August 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.67	5.8	27	1.0	4.7	8.7	3.3	2.1	.57	1.0	.08	.17
2	.42	1.6	4.2	.90	4.6	6.7	2.7	2.0	.68	.67	.07	.21
3	.33	.97	3.1	.82	5.0	6.2	4.5	1.3	.68	1.1	.08	.23
4	.33	.86	3.0	.79	5.3	7.2	3.8	1.5	.67	.47	.08	.21
5	.31	.91	2.0	.83	4.6	7.4	3.0	1.5	.67	.81	.09	.19
6	.30	.98	1.5	.83	6.7	6.6	9.7	1.6	.67	1.5	.49	.16
7	.33	.93	.68	.90	22	5.2	7.2	1.7	.65	1.6	1.5	.14
8	.32	.71	1.7	.77	23	4.4	6.4	2.1	.67	.72	.43	.16
9	.35	.78	.65	.74	25	8.0	4.4	2.5	.67	.45	.36	.18
10	.35	.83	.39	.79	21	5.4	4.0	3.5	.69	.25	1.1	.22
11	.37	1.9	.42	.82	11	5.0	4.5	3.1	e.70	.26	.61	.27
12	.38	1.0	.50	.86	9.5	4.3	3.4	3.1	e.70	.26	.34	.22
13	.39	.91	.60	.84	8.5	4.7	3.2	4.5	e.70	.25	.28	.21
14	.39	1.1	.65	.84	7.9	4.6	4.1	2.8	e.75	.32	.24	.24
15	.39	1.1	.59	1.0	6.6	4.2	3.9	1.7	1.2	.30	.26	.21
16	.34	1.2	.55	e.90	6.8	4.0	5.3	1.1	1.2	.27	.27	.22
17	.36	5.4	.66	.82	13	3.6	2.8	1.9	1.9	.24	.25	.21
18	.39	1.8	.71	52	11	3.5	4.4	.60	2.3	.26	.26	.21
19	.39	1.4	.52	46	8.2	3.8	3.3	1.4	.49	.29	.35	.27
20	.41	1.5	.67	24	6.5	3.9	3.7	1.9	.45	.28	.36	.28
21	.42	1.5	.49	20	11	3.6	3.2	1.5	.83	.19	.31	.29
22	.43	7.3	.38	11	6.7	3.0	3.2	1.1	.83	.16	1.9	.29
23	.44	3.6	e.76	21	6.0	2.9	3.2	.85	.61	.15	1.3	.30
24	1.3	22	e1.1	11	5.7	3.0	2.1	.70	.52	.12	.34	.26
25	.87	3.9	e1.5	8.9	11	2.9	2.4	.68	.47	.13	.23	.23
26	.65	2.0	e1.9	7.4	6.3	2.7	3.2	.67	.46	.14	.24	.20
27	.49	1.9	e2.3	6.2	6.3	3.3	3.2	.64	.29	.14	.28	.18
28	.51	2.7	2.3	5.6	6.1	2.6	3.7	.67	.44	.13	.18	.21
29	5.0	3.5	1.5	5.5	---	2.1	2.1	.67	.47	.09	.15	.23
30	1.6	16	1.2	5.6	---	2.1	3.5	.67	.82	.07	.11	.24
31	.98	---	1.3	5.1	---	4.8	---	.66	---	.07	.12	---
TOTAL	20.21	96.08	64.82	243.75	270.0	140.4	117.4	50.71	22.75	12.69	12.66	6.64
MEAN	.65	3.20	2.09	7.86	9.64	4.53	3.91	1.64	.76	.41	.41	.22
MAX	5.0	22	27	52	25	8.7	9.7	4.5	2.3	1.6	1.9	.30
MIN	.30	.71	.38	.74	4.6	2.1	2.1	.60	.29	.07	.07	.14
AC-FT	40	191	129	483	536	278	233	101	45	25	25	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1.70	2.50	4.18	10.2	12.3	7.51	2.63	2.05	2.23	.81	.70	1.34			
MAX	11.8	7.98	25.4	81.9	91.9	24.5	11.5	9.20	9.67	5.52	3.84	5.52			
(WY)	1987	1987	1997	1997	1986	1986	1986	1986	1986	1986	1986	1987			
MIN	.095	.24	.25	.25	.42	.35	.15	.17	.083	.024	.012	.018			
(WY)	1991	1991	1995	1994	1991	1988	1994	1992	1994	1988	1988	1988			

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

ANNUAL TOTAL	1471.73	1058.11	
ANNUAL MEAN	4.03	2.90	3.86
HIGHEST ANNUAL MEAN			15.7
LOWEST ANNUAL MEAN			.42
HIGHEST DAILY MEAN	278	52	775
LOWEST DAILY MEAN	.07	.07	.00
ANNUAL SEVEN-DAY MINIMUM	.08	.08	.00
INSTANTANEOUS PEAK FLOW		227	1110
INSTANTANEOUS PEAK STAGE		6.97	9.32
ANNUAL RUNOFF (AC-FT)	2920	2100	2800
10 PERCENT EXCEEDS	6.7	6.6	8.7
50 PERCENT EXCEEDS	1.4	.91	.53
90 PERCENT EXCEEDS	.20	.22	.08

e Estimated

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 $\frac{1}{4}$ NW $\frac{1}{4}$ sec.12, T.15 N. R.20 E., Carson City, Hydrologic Unit 16050202, on right bank, just downstream from Deer Run Road, 500 ft south of Brunswick Road, 4 mi east of Carson City, and at mi 63.36 upstream from Lahontan Reservoir.

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 fair except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow slightly regulated by several small reservoirs on tributaries. See schematic diagram of Carson River Basin.

EXTREMES 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 24,000 ft³/s, January 3, 1997, gage height 24.23 ft; no flow several days August 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Feb 08	0500	2150	9.03	Jun 16	1700	2140	8.72
May 29	--	*3400	*10.62				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	234	457	285	329	443	438	782	e2530	680	69	44
2	328	228	427	259	306	454	432	879	e2340	674	63	43
3	305	218	362	246	308	451	422	965	e2050	698	52	42
4	279	210	366	237	316	523	412	791	1690	679	46	42
5	281	207	311	246	319	478	413	679	1360	623	46	53
6	261	194	302	252	315	438	430	751	1290	573	55	63
7	244	208	280	253	537	412	440	e1000	1400	479	65	55
8	248	212	297	263	1800	394	453	e1510	1280	353	69	45
9	231	208	306	252	1650	403	426	e1620	1140	304	93	40
10	259	211	282	261	1310	394	426	e1570	1060	305	105	43
11	252	226	286	271	771	400	408	e1510	1130	309	95	47
12	265	245	296	264	612	407	418	e1770	1300	314	88	50
13	224	223	295	259	557	386	461	e2180	1480	296	88	49
14	221	240	300	268	536	394	539	e2020	1740	228	90	55
15	222	250	300	279	503	385	569	e1690	1860	186	84	50
16	205	228	296	332	498	378	531	e1550	1960	147	80	47
17	205	241	305	370	629	381	523	e1560	1950	113	93	45
18	198	243	298	386	692	409	621	e1730	1900	117	73	46
19	200	222	300	637	547	443	770	e1780	1870	121	71	48
20	191	222	242	841	484	452	879	e1810	1810	136	65	67
21	196	211	207	728	476	441	938	e1880	1710	121	57	75
22	202	211	188	457	458	416	932	e2060	1590	118	55	65
23	212	231	206	450	439	407	919	e2400	1470	96	71	57
24	209	301	216	544	416	419	781	e2820	1400	97	73	56
25	208	323	249	449	421	432	712	e3050	1380	122	52	50
26	242	286	275	420	411	440	784	e3260	1140	125	48	45
27	241	266	297	390	395	481	998	e3290	972	118	45	53
28	246	265	317	363	402	501	1020	e3310	886	87	41	54
29	230	264	365	338	---	478	942	e3400	843	66	41	48
30	253	302	340	343	---	451	847	e3150	731	56	40	51
31	247	---	295	341	---	434	---	e2690	---	58	42	---
TOTAL	7447	7130	9263	11284	16437	13325	18884	59457	45262	8399	2055	1528
MEAN	240	238	299	364	587	430	629	1918	1509	271	66.3	50.9
MAX	342	323	457	841	1800	523	1020	3400	2530	698	105	75
MIN	191	194	188	237	306	378	408	679	731	56	40	40
AC-FT	14770	14140	18370	22380	32600	26430	37460	117900	89780	16660	4080	3030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1999, BY WATER YEAR (WY)

	MEAN	144	268	330	555	493	567	718	1413	1259	466	97.8	66.8
MAX	534	1086	987	3106	1134	1147	1407	2273	4319	1770	669	259	
(WY)	1983	1984	1984	1997	1982	1995	1982	1983	1983	1995	1983	1983	
MIN	18.5	44.6	57.7	83.4	64.8	146	168	144	23.5	3.75	2.49	.70	
(WY)	1991	1991	1991	1991	1991	1992	1994	1992	1992	1994	1994	1994	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1979 - 1999			
ANNUAL TOTAL	240788				200471							
ANNUAL MEAN	660				549				539			
HIGHEST ANNUAL MEAN									1178			
LOWEST ANNUAL MEAN									90.7			
HIGHEST DAILY MEAN	3800				3400				22600			
LOWEST DAILY MEAN	41				40				.00			
ANNUAL SEVEN-DAY MINIMUM	54				42				.00			
INSTANTANEOUS PEAK FLOW					3400				24000			
INSTANTANEOUS PEAK STAGE					10.62				24.23			
ANNUAL RUNOFF (AC-FT)	477600				397600				390100			
10 PERCENT EXCEEDS	1710				1550				1410			
50 PERCENT EXCEEDS	340				314				250			
90 PERCENT EXCEEDS	116				56				14			

e Estimated

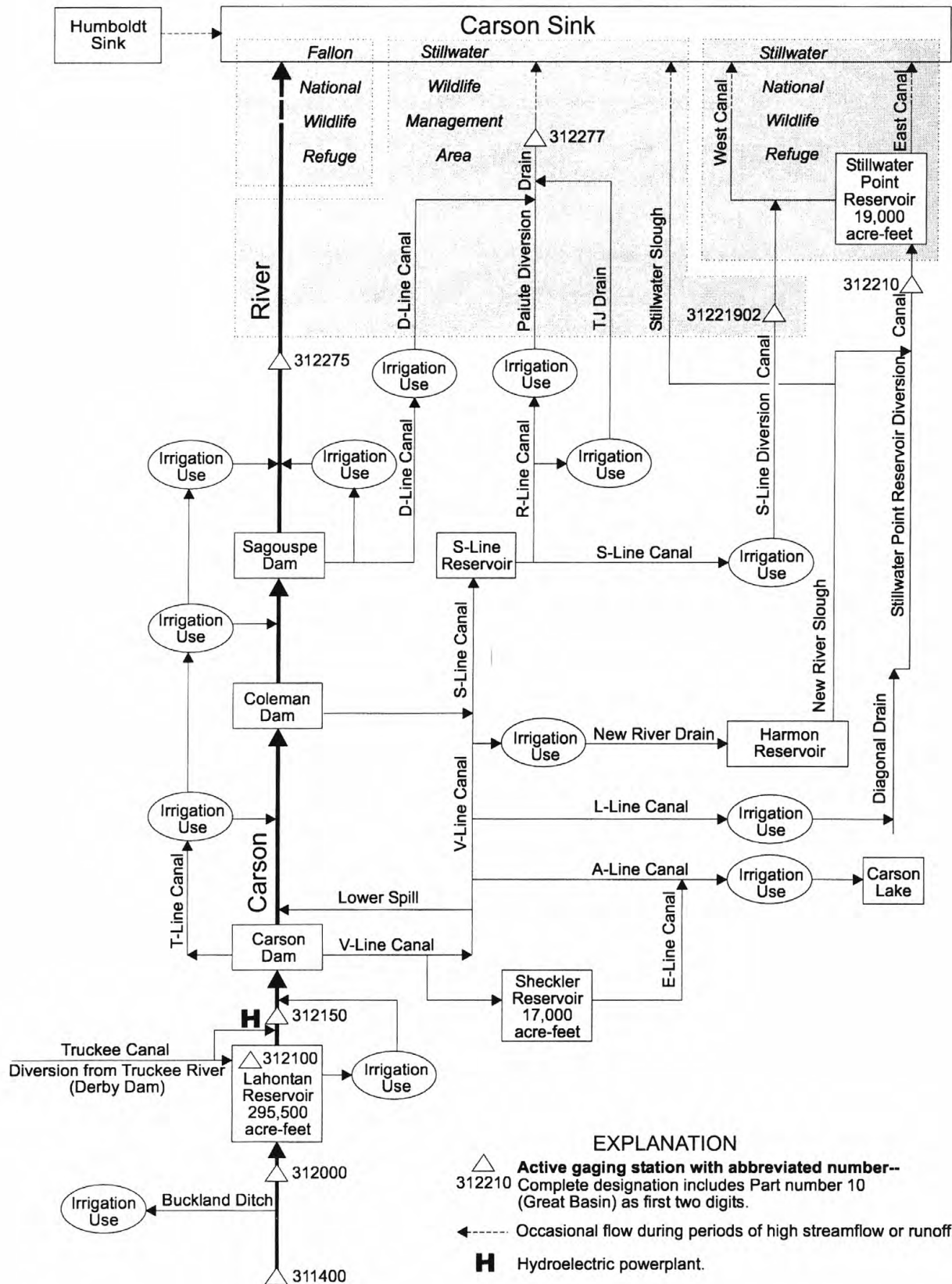


Figure 28. Schematic diagram of flow system and gaging stations in the Carson River Basin downstream of station 311400

CARSON RIVER BASIN

10312100 LAHONTAN RESERVOIR NEAR FALLON, NV

LOCATION.--Lat 39°27'45", long 119°04'00", in SW 1/4 SE 1/4 sec.33, T.19 N., R.26 E., Churchill County, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi west of Fallon.

DRAINAGE AREA.--1,799 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. See schematic diagram of Carson River Basin.

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, 318,800 acre-ft, June 24, elevation, 4,163.63 ft; minimum observed, 177,600 acre-ft, September 30, elevation, 4,149.15 ft.

Capacity table, (elevation, in feet, and contents, in acre-feet)					
4,095	7,960	4,120	46,150	4,145	150,800
4,100	12,760	4,125	59,780	4,150	183,600
4,105	18,840	4,130	76,650	4,155	222,800
4,110	26,120	4,135	97,990	4,160	270,700
4,115	34,990	4,140	122,800	4,165	339,900

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210400	204800	213300	---	249900	281600	274100	278500	301500	316300	262900	212800
2	210400	205100	213600	---	250700	281900	274000	278500	302500	315700	260700	211400
3	210800	205300	215000	---	251500	281900	274400	277900	303900	314400	258900	209800
4	211100	205400	215500	228300	251900	281300	274800	277500	304600	312900	257000	208200
5	211500	205400	215800	---	252400	281400	275300	277300	---	312300	254800	207000
6	211300	205400	216300	230800	---	---	275800	276900	305000	311700	253300	205700
7	211100	205300	216700	231400	---	---	276300	275800	304300	310200	251600	204600
8	211000	205000	217600	231600	254500	281600	276700	275300	304200	308800	249900	203400
9	210800	205000	218100	---	256600	281900	277100	274800	304600	307500	248200	201900
10	210200	204300	218600	---	259300	281700	277100	275500	304600	306100	246800	200400
11	209800	204300	219100	232200	262700	281400	277300	276400	305000	303900	245400	199100
12	209400	204300	---	233500	265500	280900	277600	276900	305300	302400	243700	197700
13	209200	204700	219100	234000	---	280300	277800	276900	305700	301000	242200	196400
14	208900	205200	220800	234800	---	279800	277800	277500	306800	299600	240900	195000
15	208300	205600	221300	235100	---	279600	277900	278300	308100	297600	239600	193800
16	207800	206000	221800	---	270800	279500	278000	279000	309600	295500	238500	192400
17	207700	206600	222200	---	271600	278600	278000	279100	311400	293700	237200	191300
18	207400	207400	222600	---	272700	278000	277800	278900	312700	292000	235600	190200
19	206900	207700	222600	236800	275000	277200	277800	278800	314400	290400	234300	189000
20	206600	208000	222600	237800	---	277000	277300	279100	315900	288400	232800	187900
21	206200	---	223500	239000	---	276300	277100	279600	316900	286700	230900	186700
22	205800	---	223900	241200	278200	276100	276900	279600	317900	285200	229300	186000
23	205400	209000	224900	---	280500	275800	276600	280300	318500	283100	227800	185000
24	205000	209100	225000	---	281100	275300	277800	281600	318800	280900	226100	184000
25	204700	209500	225000	244300	281500	275000	278200	283200	318400	278800	224300	183000
26	204300	210200	225000	245000	281900	274700	278000	285400	318400	276700	222500	182100
27	204200	211000	225000	246100	281900	274500	277800	288000	318200	274600	221300	180700
28	204700	211700	225600	247000	281700	274400	277600	290700	317900	272200	220000	179600
29	204700	212300	227400	248000	---	274100	277800	293500	317600	269900	218200	178500
30	204700	213000	227800	---	---	273900	277800	296500	317000	267800	216400	177600
31	204800	---	228000	249300	---	274400	---	299300	---	265300	214600	---
MAX	211500	---	---	---	---	---	278200	299300	---	316300	262900	212800
MIN	204200	---	---	---	---	---	274000	274800	---	265300	214600	177600

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 right bank, 1.1 mi downstream from Lahontan Dam, 15 mi west of Fallon, and at mi 1.16 downstream from Lahontan Reservoir.

DRAINAGE AREA.--1,801 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.--Records good except daily discharges below 10.0 ft³/s, which are fair. 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. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s, June 23, 1983, gage height, 8.34 ft; minimum daily, 0.24 ft³/s, October 18, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,740 ft³/s, June 1, gage height, 6.70 ft; minimum daily, 3.2 ft³/s, January 10-13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	176	5.1	3.4	4.0	408	311	852	1700	918	959	721
2	153	136	5.2	3.4	4.3	482	288	850	1650	964	851	718
3	153	136	5.2	3.3	4.3	529	281	850	1550	873	824	719
4	153	189	5.2	3.3	4.3	415	275	846	1500	943	821	646
5	153	234	5.2	3.5	4.3	414	275	882	1500	967	820	607
6	239	234	5.1	3.3	4.4	413	276	933	1510	954	826	608
7	243	233	4.9	3.3	4.7	413	275	937	1370	942	825	610
8	257	233	4.8	3.3	4.4	413	277	1010	1280	942	775	615
9	291	322	4.7	3.3	4.9	414	275	1030	1170	1000	704	617
10	318	307	4.8	3.2	4.2	471	276	1030	998	997	704	620
11	318	188	4.7	3.2	4.3	537	277	1070	859	944	702	623
12	318	128	4.7	3.2	4.3	554	277	1190	863	846	638	623
13	318	50	4.7	3.2	4.3	554	292	1260	840	805	603	621
14	317	6.5	4.8	3.4	4.5	553	351	1380	834	804	562	620
15	317	6.5	4.8	4.3	4.4	553	424	1410	850	846	540	618
16	328	6.7	4.9	4.5	4.4	607	504	1410	861	863	540	556
17	343	5.1	5.0	4.3	4.4	632	600	1410	880	813	574	542
18	315	5.0	4.7	4.3	8.9	630	594	1410	954	741	689	571
19	316	5.2	4.7	4.1	3.4	630	621	1410	963	714	771	530
20	317	5.2	4.3	4.2	3.4	572	704	1410	974	691	771	487
21	314	5.0	4.4	4.1	4.5	546	701	1410	e1070	661	773	464
22	313	5.1	4.3	4.3	15	545	698	1410	1160	714	772	520
23	312	5.2	4.3	4.4	123	546	696	1410	1250	851	785	518
24	312	5.2	4.3	4.1	208	491	692	1460	1360	890	839	517
25	312	5.2	4.3	4.2	279	455	688	1630	1270	891	811	516
26	210	5.2	4.3	4.3	385	454	686	1670	1230	890	753	505
27	135	5.2	3.5	4.1	408	454	683	1680	1170	922	758	497
28	189	5.2	3.5	3.9	408	454	698	1680	1050	1010	753	497
29	212	5.2	3.4	3.9	---	454	835	1680	1010	1010	681	487
30	212	5.1	3.4	3.9	---	423	860	1690	963	1010	663	436
31	212	---	3.4	3.9	---	351	---	1690	---	1010	728	---
TOTAL	8054	2657.8	140.6	117.1	1920.6	15367	14690	39990	34639	27426	22815	17229
MEAN	260	88.6	4.54	3.78	68.6	496	490	1290	1155	885	736	574
MAX	343	322	5.2	4.5	408	632	860	1690	1700	1010	959	721
MIN	135	5.0	3.4	3.2	3.4	351	275	846	834	661	540	436
AC-FT	15980	5270	279	232	3810	30480	29140	79320	68710	54400	45250	34170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

	MEAN	317	124	53.9	146	186	287	663	981	1056	959	840	604
MAX	802	639	861	1756	1578	1392	1453	1619	2147	1745	1285	1112	
(WY)	1984	1983	1984	1997	1997	1986	1986	1996	1983	1983	1983	1983	
MIN	.47	.50	.49	.61	.91	1.29	195	426	514	352	.74	.63	
(WY)	1993	1993	1993	1993	1993	1992	1991	1977	1992	1992	1992	1992	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1967 - 1999

ANNUAL TOTAL	191293.1	185046.1											
ANNUAL MEAN	524	507								520			
HIGHEST ANNUAL MEAN										1066		1983	
LOWEST ANNUAL MEAN										181		1992	
HIGHEST DAILY MEAN	2060	Jun 19				1700	Jun 1			3160	Jun 23	1983	
LOWEST DAILY MEAN	3.4	Dec 29				3.2	Jan 10			.24	Oct 18	1994	
ANNUAL SEVEN-DAY MINIMUM	3.7	Dec 25				3.2	Jan 7			.28	Oct 18	1994	
INSTANTANEOUS PEAK FLOW						1740	Jun 1			3160	Jun 23	1983	
INSTANTANEOUS PEAK STAGE						6.70	Jun 1			8.34	Jun 23	1983	
ANNUAL RUNOFF (AC-FT)	379400					367000				376500			
10 PERCENT EXCEEDS	1300					1070				1070			
50 PERCENT EXCEEDS	343					471				505			
90 PERCENT EXCEEDS	4.3					4.3				2.1			

e Estimated

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV

LOCATION.--Lat 39°28'25", long 118°35'50", in NE 1/4 NE 1/4 sec.34, T.19 N., R.30 E., Churchill County, Hydrologic Unit 16050203, on left bank, 0.2 mi downstream from a diversion structure for Stillwater Slough, and 9.8 mi east of Fallon.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1967 to September 1981 (monthly discharge only), October 1990 to September 1992, January 1993 to current year. Prior to October 1992, published as Stillwater Diversion Canal near Fallon.

GAGE.--Water-stage recorder. Elevation of gage is 3,915 ft above sea level, from topographic map. Prior to September 1981, gage at same site and datum on right bank.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft³/s, January 29, 1997; no flow several days many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	19	5.6	3.6	2.4	46	5.8	175	110	37	e42	20
2	54	18	4.9	2.8	2.1	49	2.4	180	164	35	e40	21
3	52	13	4.2	2.4	2.2	41	3.6	171	165	29	e38	20
4	49	13	6.5	2.4	2.2	44	5.5	190	177	30	e36	24
5	46	13	4.1	2.7	2.1	66	13	177	193	33	e34	46
6	50	14	4.5	2.9	2.1	93	24	162	210	38	e36	49
7	45	20	5.7	3.2	2.2	107	29	136	213	49	e34	54
8	39	23	8.0	3.1	2.5	117	26	68	205	33	e34	69
9	39	26	6.6	2.8	2.5	130	22	78	164	26	e46	64
10	39	27	10	2.9	2.4	142	20	61	80	33	e42	47
11	37	31	11	3.1	2.4	143	12	64	39	34	e30	30
12	38	26	10	3.4	2.4	137	7.8	88	37	37	e40	26
13	39	12	9.7	4.2	2.1	133	6.0	82	38	31	e32	30
14	41	8.2	9.4	5.6	1.9	130	4.4	96	40	30	e25	22
15	43	7.8	6.2	4.7	1.5	130	4.7	73	39	30	e23	20
16	43	9.8	4.3	4.4	1.2	126	11	75	35	30	e24	24
17	54	6.8	4.1	4.3	1.2	123	12	78	33	32	e23	33
18	55	4.6	4.0	3.8	1.3	112	16	90	36	28	e27	49
19	53	2.4	3.8	4.9	1.6	119	17	80	37	e29	e22	50
20	56	1.9	4.0	4.5	2.1	129	18	75	32	e27	e32	52
21	56	7.8	3.4	4.0	2.7	128	22	83	35	e28	e42	55
22	56	7.9	3.4	3.4	3.9	140	18	68	40	e40	e34	55
23	56	11	3.3	3.2	4.6	130	18	62	33	e38	e23	54
24	55	9.6	2.9	3.2	4.8	128	25	102	40	e34	e26	61
25	55	5.8	3.0	3.2	18	96	19	128	42	e32	31	55
26	58	6.8	3.6	2.5	46	56	50	118	33	e32	32	55
27	54	6.9	4.7	2.4	49	13	80	110	34	e33	31	57
28	52	7.1	4.6	2.2	47	7.5	66	119	42	e34	28	50
29	39	5.7	4.2	2.4	---	7.9	102	113	33	e32	28	44
30	15	5.0	3.9	2.6	---	5.3	143	133	35	e35	27	22
31	12	---	3.8	2.6	---	7.4	---	110	---	e34	27	---
TOTAL	1438	370.1	167.4	103.4	216.4	2836.1	803.2	3345	2414	1023	989	1258
MEAN	46.4	12.3	5.40	3.34	7.73	91.5	26.8	108	80.5	33.0	31.9	41.9
MAX	58	31	11	5.6	49	143	143	190	213	49	46	69
MIN	12	1.9	2.9	2.2	1.2	5.3	2.4	61	32	26	22	20
AC-FT	2850	734	332	205	429	5630	1590	6630	4790	2030	1960	2500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	24.4	11.5	5.09	24.8	25.3	39.3	13.0	60.6	53.6
MAX	46.4	20.8	7.69	197	193	139	31.7	118	120
(WY)	1999	1996	1991	1997	1997	1996	1995	1995	1993
MIN	1.91	1.56	.94	.76	1.26	.58	1.19	5.71	5.12
(WY)	1995	1995	1995	1993	1993	1993	1993	1992	1991

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1991 - 1999
ANNUAL TOTAL	12769.1	14963.6	
ANNUAL MEAN	35.0	41.0	30.0
HIGHEST ANNUAL MEAN			68.4
LOWEST ANNUAL MEAN			4.97
HIGHEST DAILY MEAN	233	213	256
LOWEST DAILY MEAN	1.9	1.2	.00
ANNUAL SEVEN-DAY MINIMUM	2.2	1.5	.00
ANNUAL RUNOFF (AC-FT)	25330	29680	21750
10 PERCENT EXCEEDS	78	115	76
50 PERCENT EXCEEDS	26	31	10
90 PERCENT EXCEEDS	2.9	2.9	1.2

e Estimated

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1977 to September 1981, September 1990 to August 1992, January 1993 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--September 1990 to August 1992, January 1993 to current year.

WATER TEMPERATURE.--October 1990 to August 1992, January 1993 to current year.

INSTRUMENTATION.--Water-quality monitor September 1990 to August 1992 and January to June 1993, hourly; July 1993 to January 1994, four times per hour; February to September 1994, hourly, October 1994 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In March 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 9,620 microsiemens, April 8, 1995; minimum recorded, 202 microsiemens, May 31, 1996.

WATER TEMPERATURE.--Maximum recorded, 31.5°C, August 12, 1992; minimum recorded, freezing point, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 8,100 microsiemens, December 25; minimum recorded, 322 microsiemens, May 5.

WATER TEMPERATURE.--Maximum recorded, 27.5°C, July 28; minimum recorded, 1.5°C, December 14.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	1410	1230	1360	2570	2460	2530	5750	5320	5510
2	---	---	---	1250	1030	1120	2670	2570	2630	5380	4920	5120
3	---	---	---	1360	1220	1270	2800	2670	2750	5070	4720	4900
4	---	---	---	1650	1360	1480	2770	2700	2730	4900	4620	4770
5	---	---	---	1660	1270	1440	2840	2710	2770	4780	4450	4660
6	---	---	---	1530	1390	1470	2880	2800	2830	4670	4450	4590
7	---	---	---	2110	837	1420	3020	2870	2940	4620	4420	4530
8	808	734	772	874	678	763	3160	3000	3090	4540	4320	4450
9	971	803	889	800	708	774	3270	3110	3180	4480	4210	4360
10	909	773	829	873	692	725	3430	3260	3320	4380	4110	4260
11	877	731	801	928	666	844	3510	3400	3450	4270	4130	4180
12	757	685	716	705	562	611	3520	3370	3450	4160	3960	4070
13	814	702	755	2090	705	1640	3420	3060	3270	4080	3850	4010
14	728	622	653	2300	1850	2090	3060	2790	2910	4030	3880	3950
15	678	642	659	1890	1800	1850	2820	2450	2660	3910	3690	3810
16	684	618	659	1840	1690	1780	2790	2640	2720	3750	3500	3600
17	671	585	633	1720	1620	1680	2790	2660	2740	3520	3260	3350
18	697	622	668	1770	1670	1720	2700	2540	2660	3270	3110	3190
19	627	599	615	2050	1740	1840	2850	2690	2800	3210	3100	3170
20	625	584	609	2100	1840	2010	3050	2840	2930	3290	3140	3210
21	604	577	593	1880	1740	1830	3970	3050	3540	3330	3190	3280
22	730	595	664	1880	1760	1820	5410	3970	4730	3310	3140	3220
23	698	627	667	1850	1770	1820	7260	5350	6740	3160	3040	3100
24	670	598	622	1920	1810	1870	7670	6890	7350	3220	3050	3110
25	740	670	714	2000	1880	1940	8100	5330	6330	3270	3120	3230
26	755	582	691	2060	1970	2000	7390	6870	7230	3420	3210	3280
27	618	555	574	2030	1970	2010	7270	6770	7040	3670	3420	3550
28	791	618	731	2210	1990	2080	6800	6420	6580	3920	3570	3750
29	1810	759	1100	2300	2190	2240	6420	6070	6230	4140	3700	3890
30	1760	1480	1600	2460	2210	2320	6200	5940	6060	3880	3710	3830
31	1490	1410	1440	---	---	---	5980	5650	5830	3870	3770	3830
MONTH	---	---	---	2460	562	1590	8100	2450	4070	5750	3040	3930

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3890	3630	3790	---	---	---	---	---	---	390	356	374
2	3990	3750	3850	---	---	---	---	---	---	451	346	365
3	3980	3620	3800	---	---	---	---	---	---	471	327	402
4	3800	3540	3690	---	---	---	---	---	---	430	328	370
5	3760	3630	3690	---	---	---	---	---	---	465	322	367
6	3780	3600	3680	---	---	---	---	---	---	446	358	395
7	3840	3690	3770	---	---	---	---	---	---	1300	366	588
8	3900	3820	3860	---	---	---	---	---	---	1300	546	808
9	3930	3470	3730	---	---	---	---	---	---	780	465	596
10	4360	3820	4020	---	---	---	---	---	---	826	474	569
11	4380	4010	4160	---	---	---	---	---	---	1040	542	761
12	4540	4100	4300	---	---	---	---	---	---	577	489	526
13	4370	4140	4280	---	---	---	---	---	---	663	475	549
14	4500	4250	4370	---	---	---	---	---	---	618	467	506
15	5030	4500	4730	---	---	---	---	---	---	662	603	628
16	4720	4480	4620	---	---	---	---	---	---	643	569	600
17	4790	4660	4740	---	---	---	---	---	---	658	581	620
18	4870	4630	4750	---	---	---	---	---	---	728	528	596
19	5030	4580	4800	---	---	---	---	---	---	670	572	610
20	5420	4570	5040	---	---	---	---	---	---	654	588	610
21	5000	4550	4860	---	---	---	---	---	---	671	518	559
22	5000	4740	4910	---	---	---	---	---	---	720	549	608
23	5040	4800	4930	---	---	---	---	---	---	819	632	748
24	5240	4870	5020	---	---	---	---	---	---	632	499	539
25	5370	5020	5230	---	---	---	---	---	---	515	414	450
26	5370	5140	5270	---	---	---	---	---	---	756	424	572
27	5150	4820	4990	---	---	---	663	514	577	639	467	515
28	---	---	---	---	---	---	766	423	637	527	469	491
29	---	---	---	---	---	---	1100	398	455	563	500	533
30	---	---	---	---	---	---	754	335	359	500	442	478
31	---	---	---	---	---	---	---	---	---	497	473	484
MONTH	---	---	---	---	---	---	---	---	---	1300	322	542
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	562	459	497	786	748	761	747	652	676	851	749	785
2	474	449	463	752	725	735	696	670	681	864	819	842
3	449	419	427	773	722	753	710	683	694	866	839	853
4	443	404	416	796	752	781	731	706	719	853	662	751
5	470	402	432	802	642	720	749	724	738	662	558	584
6	428	402	414	789	736	754	748	711	724	575	559	568
7	439	421	430	751	620	666	760	724	744	560	523	540
8	460	430	451	758	600	679	765	752	758	560	526	543
9	524	436	458	819	725	778	754	610	647	545	510	527
10	564	524	554	827	712	775	728	624	674	696	541	584
11	652	564	606	763	706	732	942	679	780	722	674	697
12	708	651	680	732	694	714	823	671	729	729	690	709
13	777	703	734	749	720	735	773	669	722	728	661	691
14	784	761	773	762	724	740	864	766	796	736	667	698
15	792	754	773	750	720	732	906	861	889	772	734	754
16	777	743	759	760	722	743	904	798	837	803	758	788
17	826	774	804	778	710	745	926	861	911	758	577	644
18	860	819	839	822	744	785	890	824	854	625	586	605
19	886	856	870	830	775	808	923	822	865	609	542	571
20	893	864	877	986	737	805	918	757	800	580	531	557
21	883	865	874	816	724	782	804	647	716	569	531	552
22	875	852	862	821	673	720	773	668	746	582	537	562
23	861	842	851	705	588	635	901	742	792	554	541	548
24	847	825	838	769	705	748	916	806	860	607	552	571
25	837	812	825	776	728	752	858	665	712	618	580	603
26	842	810	826	797	751	776	764	616	687	585	554	571
27	843	809	827	782	758	769	790	683	724	581	550	566
28	826	784	800	779	746	761	827	790	810	584	547	564
29	843	742	788	783	747	765	821	775	794	674	572	595
30	827	785	801	771	726	744	821	784	798	825	674	792
31	---	---	---	749	732	741	796	763	777	---	---	---
MONTH	893	402	685	986	588	746	942	610	763	866	510	640

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	15.5	16.0	10.0	8.5	9.0	6.5	6.0	6.0	---	---	---
2	17.5	16.5	17.0	10.0	8.0	9.0	6.5	6.0	6.0	---	---	---
3	16.5	15.5	16.0	11.5	7.5	9.0	6.0	6.0	6.0	---	---	---
4	15.5	14.5	15.0	10.5	8.0	9.0	6.0	4.5	5.5	---	---	---
5	15.0	13.5	14.5	9.5	7.0	8.0	4.5	4.0	4.5	---	---	---
6	14.5	13.5	14.0	8.5	6.5	7.0	4.5	3.5	4.0	---	---	---
7	15.0	13.0	14.0	7.5	6.0	7.0	4.0	3.0	3.5	---	---	---
8	15.5	13.0	14.5	7.5	6.5	7.0	4.0	3.0	3.5	---	---	---
9	15.5	14.0	15.0	6.5	6.0	6.0	3.5	3.0	3.5	---	---	---
10	14.5	13.5	14.0	6.0	5.5	6.0	3.5	2.5	3.0	---	---	---
11	14.0	12.5	13.0	6.0	5.5	5.5	3.0	2.5	2.5	---	---	---
12	13.0	12.0	12.5	6.5	5.0	6.0	3.0	2.0	2.5	---	---	---
13	13.5	12.0	13.0	7.5	5.5	6.0	2.5	2.0	2.0	---	---	---
14	14.0	12.5	13.5	8.0	5.0	6.5	2.0	1.5	2.0	---	---	---
15	13.5	12.0	13.0	7.5	5.0	6.0	---	---	---	---	---	---
16	12.0	10.5	11.0	7.0	5.0	6.0	---	---	---	---	---	---
17	10.5	9.5	10.0	7.5	5.0	6.0	---	---	---	---	---	---
18	10.5	9.0	10.0	7.0	5.0	6.0	---	---	---	---	---	---
19	10.5	9.0	10.0	6.5	4.5	5.5	---	---	---	---	---	---
20	11.5	9.5	10.5	6.0	4.5	5.5	---	---	---	---	---	---
21	12.0	10.5	11.0	6.0	5.0	5.5	---	---	---	---	---	---
22	12.5	11.0	11.5	7.0	5.5	6.5	---	---	---	---	---	---
23	12.5	11.0	12.0	7.5	6.5	7.0	---	---	---	---	---	---
24	12.5	11.0	12.0	7.5	6.5	7.0	---	---	---	---	---	---
25	11.0	9.5	10.5	7.0	6.0	6.5	---	---	---	---	---	---
26	10.0	9.5	9.5	6.5	5.5	6.0	---	---	---	---	---	---
27	11.0	9.5	10.0	6.0	5.5	6.0	---	---	---	---	---	---
28	11.5	10.5	11.0	6.0	5.5	5.5	---	---	---	---	---	---
29	11.5	10.0	10.5	6.0	5.5	5.5	---	---	---	---	---	---
30	11.5	8.5	9.5	6.0	5.0	5.5	---	---	---	---	---	---
31	10.5	7.0	8.5	---	---	---	---	---	---	---	---	---
MONTH	17.5	7.0	12.3	11.5	4.5	6.6	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	10.0	9.0	9.5	9.5	7.5	8.5	14.5	10.0	12.0
2	---	---	---	10.0	9.0	9.5	9.5	7.0	8.0	14.0	12.0	12.5
3	---	---	---	10.0	9.5	10.0	8.0	6.5	7.0	12.0	10.0	11.0
4	---	---	---	10.0	8.5	9.5	9.5	5.5	7.5	12.5	9.0	10.5
5	---	---	---	8.5	7.0	7.5	8.0	7.5	8.0	14.0	10.5	12.5
6	---	---	---	7.5	6.5	7.0	8.0	7.0	7.5	17.5	13.0	14.5
7	---	---	---	7.5	7.0	7.5	9.0	6.5	7.5	17.5	14.0	16.0
8	---	---	---	7.5	6.5	7.0	9.0	7.5	8.5	17.0	13.5	15.5
9	---	---	---	7.0	6.5	6.5	8.0	6.5	7.5	15.5	11.5	14.0
10	---	---	---	6.5	5.5	6.0	8.0	7.5	7.5	16.0	11.5	14.0
11	---	---	---	7.0	6.0	6.5	10.0	7.5	8.5	18.5	13.5	16.5
12	---	---	---	7.5	6.0	7.0	12.5	8.5	10.5	19.5	16.0	17.5
13	---	---	---	7.5	7.0	7.0	14.0	10.0	12.0	17.5	14.0	16.0
14	---	---	---	8.0	7.0	7.5	15.5	11.5	13.5	16.0	12.0	14.0
15	---	---	---	8.5	8.0	8.5	15.5	12.0	13.5	16.5	11.0	14.0
16	---	---	---	9.0	8.0	8.5	15.0	12.5	13.5	17.0	12.5	15.0
17	---	---	---	10.0	8.5	9.0	16.0	13.0	14.5	20.0	14.0	17.0
18	---	---	---	10.5	9.5	10.0	16.5	14.5	15.5	18.5	15.5	16.5
19	---	---	---	10.5	9.5	10.0	16.5	14.5	15.5	19.0	14.0	17.0
20	---	---	---	9.5	8.5	9.0	16.5	15.0	15.5	20.5	16.5	19.0
21	---	---	---	9.0	7.5	8.0	16.0	14.5	15.5	20.0	16.0	18.5
22	---	---	---	9.0	8.0	8.5	14.5	12.5	13.5	20.5	16.0	18.5
23	---	---	---	11.0	9.0	9.5	12.5	11.5	12.0	22.0	16.5	19.5
24	---	---	---	11.0	10.0	10.5	13.0	11.5	12.0	21.5	18.0	20.0
25	---	---	---	12.0	10.5	11.0	15.0	12.5	13.5	22.0	18.5	20.5
26	7.5	6.5	7.0	13.0	11.5	12.0	14.5	12.5	14.0	22.0	20.0	21.0
27	8.5	6.5	7.5	13.5	11.5	12.0	14.5	11.0	12.5	23.0	18.0	20.5
28	9.0	7.5	8.5	13.0	10.0	11.5	13.5	9.5	11.0	23.0	19.5	21.5
29	---	---	---	11.5	9.5	10.5	9.5	8.0	8.5	22.0	18.5	19.5
30	---	---	---	12.0	9.0	10.5	11.0	8.0	9.5	20.0	17.0	18.5
31	---	---	---	10.5	8.5	9.5	---	---	---	20.0	16.5	18.0
MONTH	---	---	---	13.5	5.5	8.9	16.5	5.5	11.1	23.0	9.0	16.5

CARSON RIVER BASIN

10312210 STILLWATER POINT RESERVOIR DIVERSION CANAL NEAR FALLON, NV--Continued

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.0	17.0	18.0	26.0	23.5	25.0	26.5	21.5	24.0	20.0	15.5	18.0
2	18.0	15.5	16.5	25.5	23.0	24.5	26.0	20.5	23.5	21.5	17.0	19.5
3	15.5	14.0	14.5	24.0	21.5	23.0	27.0	21.0	24.5	20.5	17.0	19.0
4	14.5	13.5	14.0	23.0	19.5	21.5	27.0	21.5	24.5	20.5	15.5	18.0
5	17.0	14.0	15.0	23.5	19.5	21.5	25.5	21.0	23.5	21.5	17.0	19.5
6	18.5	16.5	17.5	24.5	21.0	22.5	23.5	19.0	20.5	22.5	19.0	20.5
7	18.0	16.0	17.0	24.5	22.0	23.5	22.5	17.0	20.0	21.5	19.5	20.5
8	18.0	15.5	16.5	24.0	20.5	22.5	24.0	19.0	21.5	22.5	18.5	20.5
9	18.5	16.0	17.0	25.0	21.5	23.0	23.5	19.0	21.5	22.5	19.0	21.0
10	20.0	17.0	18.5	24.5	22.5	23.5	23.0	19.0	20.5	22.5	19.5	21.0
11	24.0	17.0	20.5	26.0	21.5	23.5	23.5	17.0	20.5	22.5	18.0	20.5
12	24.5	19.0	22.0	26.5	23.0	25.0	24.5	19.5	22.5	21.5	17.5	20.0
13	26.0	20.5	23.0	27.0	23.5	25.0	25.0	20.5	23.0	22.0	17.0	20.0
14	25.5	21.0	23.5	27.0	22.5	24.5	24.5	19.0	22.0	23.0	18.5	21.0
15	24.5	21.5	23.0	26.5	20.0	23.5	23.5	18.0	21.5	22.5	17.0	20.0
16	25.0	20.0	22.5	26.5	19.5	23.0	24.5	19.0	22.0	21.5	17.0	20.0
17	25.5	21.0	23.5	26.0	19.5	23.0	25.0	19.5	23.0	23.0	18.0	20.5
18	25.0	21.5	23.0	26.5	20.5	23.5	25.5	20.5	23.0	21.5	19.0	20.0
19	24.5	20.0	22.5	27.0	20.5	24.0	25.0	20.0	23.0	21.5	17.5	19.5
20	25.5	21.0	23.5	26.5	20.5	23.5	25.0	20.5	23.0	22.0	18.5	20.5
21	24.5	21.5	23.0	26.0	19.5	23.0	24.5	21.0	23.0	22.5	19.5	21.0
22	24.5	21.5	23.0	26.0	20.0	23.0	25.0	20.0	22.5	21.5	18.5	19.5
23	25.5	21.0	23.5	27.0	20.0	23.5	25.0	21.0	23.5	21.5	17.5	19.5
24	25.0	22.5	24.0	25.0	20.0	22.5	25.5	21.5	24.0	21.5	19.5	20.5
25	23.0	19.5	21.5	25.5	19.0	22.5	25.5	21.5	23.5	22.0	19.0	21.0
26	24.0	20.0	22.0	26.0	20.0	23.5	24.5	21.5	23.0	21.5	17.5	19.0
27	23.5	20.5	22.0	26.5	21.0	24.0	24.0	20.0	22.0	17.5	15.5	16.5
28	24.0	20.5	22.5	27.5	22.0	25.0	24.5	20.0	23.0	16.5	13.5	15.0
29	25.0	21.5	23.0	26.0	22.5	24.5	24.5	21.0	23.0	16.5	13.5	15.0
30	26.0	22.5	24.0	26.5	21.0	24.0	23.5	20.0	21.5	18.0	13.0	16.0
31	---	---	---	27.0	22.0	24.5	20.0	15.5	18.0	---	---	---
MONTH	26.0	13.5	20.7	27.5	19.0	23.5	27.0	15.5	22.4	23.0	13.0	19.4

CARSON RIVER BASIN

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV

LOCATION.--Lat 39°32'01", long 118°31'06", in NE 1/4 NE 1/4 sec.8, T.19 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on left bank, off Hunter Road, 250 ft above confluence with West Canal, 1.5 mi north of U.S.F.W.S. Stillwater Headquarters, and 2 mi northeast of Stillwater.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1991 to September 1992, March 1993 to current year (irrigation season only).

GAGE.--Water-stage recorder. Elevation of gage is 3,880 ft above sea level, from topographic map.

REMARKS.--Records fair. Annual mean listed below in summary statistics, represents average discharge for water year 1992. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 40 ft³/s, August 17, 1996; no flow many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	---	---	---	---	.00	.53	21	17	.06	23	9.5
2	32	---	---	---	---	.00	1.9	15	7.9	1.0	25	5.3
3	32	---	---	---	---	.00	6.3	17	13	3.1	23	18
4	31	---	---	---	---	.00	6.5	22	17	1.2	20	14
5	14	---	---	---	---	.00	13	22	16	2.1	26	26
6	27	---	---	---	---	.00	15	8.5	16	1.5	26	25
7	26	---	---	---	---	.00	16	13	17	1.0	20	21
8	27	---	---	---	---	.00	16	17	19	.00	21	21
9	27	---	---	---	---	.00	15	8.5	17	.29	25	21
10	28	---	---	---	---	.00	15	6.5	16	1.1	24	12
11	31	---	---	---	---	9.5	15	15	11	11	24	17
12	32	---	---	---	---	24	11	8.8	6.1	18	15	27
13	33	---	---	---	---	25	11	8.0	1.5	19	16	10
14	25	---	---	---	---	31	3.3	4.3	1.5	23	25	17
15	31	---	---	---	---	32	3.9	11	2.8	7.8	23	21
16	34	---	---	---	---	31	3.2	7.7	2.7	18	18	6.1
17	26	---	---	---	---	30	4.9	11	4.5	16	17	23
18	22	---	---	---	---	27	4.3	9.7	5.3	22	23	24
19	29	---	---	---	---	25	3.6	11	10	26	25	19
20	27	---	---	---	---	23	7.9	16	13	19	15	20
21	28	---	---	---	---	9.1	12	15	13	18	13	27
22	35	---	---	---	---	4.5	9.6	16	2.8	15	4.5	33
23	26	---	---	---	---	16	3.8	17	1.8	9.5	20	24
24	34	---	---	---	---	9.7	7.3	17	.00	10	23	24
25	31	---	---	---	---	14	6.9	9.4	.00	18	8.6	24
26	30	---	---	---	---	13	17	14	.00	12	21	20
27	29	---	---	---	---	14	21	10	.00	26	15	29
28	28	---	---	---	---	14	14	7.4	.00	24	22	24
29	30	---	---	---	---	6.0	9.4	14	.00	25	30	23
30	32	---	---	---	---	2.8	13	18	.00	17	26	20
31	30	---	---	---	---	4.5	---	20	---	18	28	---
TOTAL	900	---	---	---	---	365.10	287.33	410.8	231.90	383.65	645.1	604.9
MEAN	29.0	---	---	---	---	11.8	9.58	13.3	7.73	12.4	20.8	20.2
MAX	35	---	---	---	---	32	21	22	19	26	30	33
MIN	14	---	---	---	---	.00	.53	4.3	.00	.00	4.5	5.3
AC-FT	1790	---	---	---	---	724	570	815	460	761	1280	1200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

	MEAN	18.8	.000	.000	.000	.000	5.09	5.39	12.6	9.34	11.6	14.3	17.3
MAX	29.0	.000	.000	.000	.000	.000	25.1	11.1	21.5	20.4	16.1	21.1	29.8
(WY)	1999	1992	1992	1992	1992	1996	1998	1995	1995	1996	1998	1996	1996
MIN	.000	.000	.000	.000	.000	.000	.45	5.39	4.53	7.02	.23	.000	.000
(WY)	1995	1992	1992	1992	1992	1992	1997	1993	1994	1995	1992	1992	1992

SUMMARY STATISTICS

WATER YEARS 1991 - 1999

ANNUAL MEAN	2.82	
HIGHEST ANNUAL MEAN	2.82	1992
LOWEST ANNUAL MEAN	2.82	1992
HIGHEST DAILY MEAN	40	Aug 17 1996
LOWEST DAILY MEAN	.00	May 24 1991
ANNUAL SEVEN-DAY MINIMUM	.00	May 24 1991
ANNUAL RUNOFF (AC-FT)	2040	
10 PERCENT EXCEEDS	29	
50 PERCENT EXCEEDS	6.6	
90 PERCENT EXCEEDS	.00	

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--June 1991 to current year.

WATER TEMPERATURE.--June 1991 to current year.

INSTRUMENTATION.--Water-quality monitor June 1991 to September 1992, hourly; March 1993 to current year (irrigation season only), hourly.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In April 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C. Interruptions in record due to intermittent streamflow (see Water-Discharge Record) and instrument malfunction. Reported values are for days with continuous flow.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 914 microsiemens, April 2, 1994; minimum recorded, 208 microsiemens, March 14, 1996.

WATER TEMPERATURE.--Maximum recorded, 30.5°C, July 18, 1998; minimum recorded, 3.0°C, March 1, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 474 microsiemens, September 17; minimum recorded, 219 microsiemens, March 20.

WATER TEMPERATURE.--Maximum recorded, 29.0°C, July 2; minimum recorded, 3.5°C, April 4.

[illegible]

CARSON RIVER BASIN

1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	265	260	262	303	294	297
2	---	---	---	---	---	---	266	258	262	295	291	294
3	---	---	---	---	---	---	304	265	289	313	293	302
4	---	---	---	---	---	---	311	303	307	305	284	292
5	---	---	---	---	---	---	312	306	309	291	279	287
6	---	---	---	---	---	---	316	311	314	280	263	274
7	---	---	---	---	---	---	320	315	317	279	265	272
8	---	---	---	---	---	---	320	316	318	284	271	277
9	---	---	---	---	---	---	323	316	319	290	282	286
10	---	---	---	---	---	---	326	321	323	293	280	286
11	---	---	---	---	---	---	350	325	337	306	287	298
12	---	---	---	309	243	261	356	348	352	311	298	303
13	---	---	---	243	232	235	365	353	357	326	299	314
14	---	---	---	234	228	231	374	363	368	344	323	336
15	---	---	---	231	228	230	381	371	376	351	335	342
16	---	---	---	230	226	228	386	376	381	349	337	341
17	---	---	---	230	225	227	394	383	389	342	321	335
18	---	---	---	229	222	225	404	392	398	323	291	306
19	---	---	---	223	220	222	410	401	405	298	286	291
20	---	---	---	225	219	222	423	398	407	291	270	283
21	---	---	---	229	223	225	427	372	405	285	267	276
22	---	---	---	237	227	233	373	329	354	301	264	282
23	---	---	---	241	235	238	329	313	318	268	260	264
24	---	---	---	238	231	236	316	308	312	277	261	268
25	---	---	---	240	232	236	316	298	305	272	260	266
26	---	---	---	250	236	241	315	299	307	267	257	262
27	---	---	---	254	239	245	324	304	313	270	255	261
28	---	---	---	250	239	244	326	321	323	269	257	263
29	---	---	---	257	242	248	321	308	316	293	268	283
30	---	---	---	259	246	255	311	301	306	293	275	285
31	---	---	---	263	253	257	---	---	---	278	269	273
MONTH	---	---	---	---	---	---	427	258	335	351	255	290
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	284	276	280	---	---	---	266	249	259	397	357	375
2	284	278	281	408	378	391	307	255	275	366	357	361
3	293	277	285	383	352	361	298	265	276	373	360	365
4	303	292	298	404	348	386	297	268	283	361	342	351
5	304	298	302	418	399	406	325	281	297	346	333	341
6	307	296	302	432	415	423	317	284	294	360	342	349
7	327	298	311	---	---	---	289	271	285	370	353	361
8	350	309	324	---	---	---	285	262	274	389	369	379
9	352	315	331	---	---	---	282	271	276	410	388	398
10	334	311	322	---	---	---	294	277	285	429	408	414
11	336	327	331	339	317	325	320	278	298	442	422	431
12	336	329	332	370	316	339	300	280	284	453	437	443
13	343	332	337	367	327	349	324	276	288	461	441	451
14	341	313	328	349	319	331	364	305	324	466	451	459
15	348	336	341	366	336	356	367	331	344	469	457	463
16	364	341	351	337	317	328	346	312	322	473	447	463
17	440	358	389	329	309	314	317	297	305	474	461	467
18	449	430	434	318	294	305	312	293	301	471	461	466
19	435	402	413	319	298	310	332	299	315	468	452	460
20	421	399	407	334	294	309	337	295	309	464	448	454
21	406	384	390	326	301	310	311	286	300	456	442	448
22	389	349	359	346	303	322	308	279	297	447	434	441
23	361	339	348	378	328	343	286	274	279	438	424	431
24	---	---	---	390	331	365	297	279	288	432	418	424
25	---	---	---	333	271	282	292	265	277	425	413	419
26	---	---	---	309	277	296	282	258	271	421	405	413
27	---	---	---	300	260	275	301	271	284	414	398	406
28	---	---	---	280	259	268	308	287	296	404	388	396
29	---	---	---	262	250	256	327	294	307	395	350	373
30	---	---	---	274	254	266	353	315	326	352	320	332
31	---	---	---	272	242	257	378	338	353	---	---	---
MONTH	---	---	---	---	---	---	378	249	296	474	320	411

CARSON RIVER BASIN
1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.0	15.0	16.5	---	---	---	---	---	---	---	---	---
2	18.0	15.5	16.5	---	---	---	---	---	---	---	---	---
3	16.5	15.0	16.0	---	---	---	---	---	---	---	---	---
4	16.0	13.5	15.0	---	---	---	---	---	---	---	---	---
5	16.5	12.5	14.5	---	---	---	---	---	---	---	---	---
6	15.0	13.0	14.0	---	---	---	---	---	---	---	---	---
7	15.5	13.0	14.0	---	---	---	---	---	---	---	---	---
8	16.0	13.0	14.5	---	---	---	---	---	---	---	---	---
9	16.0	13.5	14.5	---	---	---	---	---	---	---	---	---
10	15.5	13.5	14.5	---	---	---	---	---	---	---	---	---
11	15.0	12.5	14.0	---	---	---	---	---	---	---	---	---
12	14.0	12.5	13.5	---	---	---	---	---	---	---	---	---
13	14.5	12.0	13.5	---	---	---	---	---	---	---	---	---
14	15.0	12.5	13.5	---	---	---	---	---	---	---	---	---
15	14.0	12.5	13.0	---	---	---	---	---	---	---	---	---
16	13.0	11.0	12.0	---	---	---	---	---	---	---	---	---
17	12.0	9.5	10.5	---	---	---	---	---	---	---	---	---
18	11.5	9.0	10.0	---	---	---	---	---	---	---	---	---
19	12.0	9.0	10.5	---	---	---	---	---	---	---	---	---
20	12.0	9.5	11.0	---	---	---	---	---	---	---	---	---
21	13.0	10.0	11.5	---	---	---	---	---	---	---	---	---
22	13.5	11.0	12.0	---	---	---	---	---	---	---	---	---
23	13.5	11.0	12.0	---	---	---	---	---	---	---	---	---
24	12.5	11.5	12.0	---	---	---	---	---	---	---	---	---
25	12.0	11.0	11.0	---	---	---	---	---	---	---	---	---
26	11.5	10.0	10.5	---	---	---	---	---	---	---	---	---
27	11.5	9.5	10.5	---	---	---	---	---	---	---	---	---
28	12.0	10.5	11.5	---	---	---	---	---	---	---	---	---
29	12.0	10.5	11.0	---	---	---	---	---	---	---	---	---
30	11.0	9.0	10.0	---	---	---	---	---	---	---	---	---
31	10.0	8.0	9.0	---	---	---	---	---	---	---	---	---
MONTH	18.0	8.0	12.7	---	---	---	---	---	---	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	8.5	6.0	7.0	15.0	9.5	12.0
2	---	---	---	---	---	---	10.0	5.0	7.0	13.0	11.5	12.0
3	---	---	---	---	---	---	---	---	---	14.0	10.5	11.5
4	---	---	---	---	---	---	9.5	3.5	6.0	13.0	9.5	11.0
5	---	---	---	---	---	---	---	---	---	16.0	10.0	13.0
6	---	---	---	---	---	---	7.0	5.0	6.0	24.0	11.0	16.0
7	---	---	---	---	---	---	9.5	5.5	7.5	21.0	14.0	17.0
8	---	---	---	---	---	---	8.0	5.5	7.0	19.0	14.0	16.0
9	---	---	---	---	---	---	9.0	4.5	6.5	20.0	12.0	15.5
10	---	---	---	---	---	---	7.0	5.0	6.0	20.5	11.5	15.0
11	---	---	---	---	---	---	9.5	6.0	7.5	18.0	13.0	15.5
12	---	---	---	10.0	4.0	7.0	13.0	7.0	10.0	22.5	15.0	18.0
13	---	---	---	9.5	6.0	7.5	14.5	9.0	12.0	21.0	14.0	16.5
14	---	---	---	10.5	6.0	8.0	---	---	---	21.0	12.0	16.0
15	---	---	---	10.0	7.5	8.5	---	---	---	18.5	10.5	14.0
16	---	---	---	11.5	6.5	9.0	---	---	---	19.0	11.0	14.5
17	---	---	---	12.5	7.5	9.5	---	---	---	20.5	13.0	16.5
18	---	---	---	14.5	9.0	11.0	---	---	---	19.5	15.5	17.5
19	---	---	---	10.0	8.5	9.5	---	---	---	21.0	15.0	17.5
20	---	---	---	9.5	6.5	8.0	---	---	---	23.0	16.5	19.0
21	---	---	---	12.0	5.0	8.0	---	---	---	23.5	16.5	20.0
22	---	---	---	12.5	6.5	9.0	---	---	---	22.0	15.5	18.5
23	---	---	---	13.0	9.0	10.5	---	---	---	22.0	16.5	19.0
24	---	---	---	16.0	8.5	12.0	---	---	---	21.5	16.5	19.0
25	---	---	---	---	---	---	---	---	---	23.5	18.0	20.5
26	---	---	---	---	---	---	---	---	---	23.5	19.0	21.0
27	---	---	---	---	---	---	17.0	13.0	14.5	23.5	19.0	21.5
28	---	---	---	---	---	---	14.0	11.0	12.5	25.0	19.5	22.0
29	---	---	---	---	---	---	11.0	9.0	9.5	21.5	19.5	20.5
30	---	---	---	12.5	8.0	10.0	11.5	8.5	10.0	21.0	17.5	19.5
31	---	---	---	10.0	6.0	8.0	---	---	---	20.5	17.0	18.5
MONTH	---	---	---	---	---	---	---	---	---	25.0	9.5	16.9

CARSON RIVER BASIN
1031221902 S-LINE DIVERSION CANAL NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.5	17.5	18.5	---	---	---	27.0	23.5	25.0	21.5	17.0	19.0
2	17.5	15.0	16.5	29.0	23.0	25.5	27.5	22.0	25.0	22.5	17.0	19.5
3	15.0	13.5	14.0	27.0	22.0	24.0	27.0	22.5	25.0	23.0	16.0	19.0
4	14.5	12.5	13.5	26.5	19.0	22.5	27.0	23.0	25.0	23.0	15.5	19.0
5	18.5	13.0	15.5	23.5	20.0	21.5	26.0	22.5	24.5	22.0	16.5	19.5
6	20.5	15.5	17.5	25.5	20.5	23.0	24.0	21.0	22.5	24.0	17.5	20.5
7	20.5	15.5	18.0	---	---	---	23.5	19.5	21.5	23.0	18.0	20.5
8	20.0	15.5	18.0	---	---	---	23.5	19.5	21.5	22.5	18.5	20.5
9	20.5	16.0	18.0	---	---	---	24.5	20.0	22.5	23.5	19.5	21.0
10	21.5	16.0	19.0	---	---	---	23.0	20.5	22.0	24.0	19.5	21.5
11	23.0	17.0	20.5	27.0	22.0	24.5	23.0	18.5	21.0	24.0	18.5	21.0
12	25.0	19.0	22.0	28.0	23.5	25.5	25.5	19.5	22.5	22.0	18.5	20.5
13	25.5	20.5	23.5	28.5	24.0	26.0	26.5	21.0	23.5	24.0	17.0	20.5
14	26.0	21.0	23.5	27.0	24.0	25.5	26.0	20.5	23.0	23.5	19.0	21.0
15	27.0	21.5	24.5	28.5	22.0	25.0	26.0	20.0	23.0	23.5	18.5	21.0
16	26.5	21.0	23.5	26.5	22.0	24.0	27.0	20.0	23.5	24.0	18.5	21.0
17	27.0	21.0	24.0	27.0	22.0	24.0	25.5	20.5	23.5	23.5	19.5	21.5
18	26.5	22.5	24.5	26.0	22.0	24.0	26.5	21.5	23.5	22.0	19.5	20.5
19	27.0	22.0	24.5	26.0	22.5	24.5	26.5	21.5	24.0	23.5	18.0	20.5
20	27.0	22.5	24.5	27.5	22.5	25.0	28.5	21.0	24.5	23.5	18.0	20.5
21	27.0	22.5	25.0	27.0	22.5	24.5	27.0	21.5	24.0	23.5	19.0	21.0
22	27.0	22.5	24.5	27.5	22.0	24.5	26.5	21.0	23.5	21.0	19.5	20.0
23	26.5	20.5	24.0	27.5	21.0	24.5	25.5	21.0	23.0	22.5	18.5	20.0
24	---	---	---	27.5	21.0	24.5	26.5	22.5	24.0	23.0	18.0	20.5
25	---	---	---	27.0	20.5	23.5	28.0	21.0	24.5	24.0	18.5	21.0
26	---	---	---	27.0	20.5	24.0	26.0	22.5	23.5	22.5	18.0	20.0
27	---	---	---	27.0	21.5	24.5	26.0	21.0	23.0	20.0	16.0	18.0
28	---	---	---	27.5	22.5	25.0	26.0	21.0	23.5	18.5	14.0	16.0
29	---	---	---	27.0	24.0	25.5	26.5	21.0	24.0	18.5	13.5	15.5
30	---	---	---	28.0	22.5	25.0	25.0	21.0	22.5	18.5	14.0	16.0
31	---	---	---	26.5	23.5	24.5	22.5	18.5	20.5	---	---	---
MONTH	---	---	---	---	---	---	28.5	18.5	23.3	24.0	13.5	19.9

CARSON RIVER BASIN

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. Prior to October 1, 1996, at same site at datum 3.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by irrigation development above station (Newlands Project) and by storage in Lahontan Reservoir (station 10312100). See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 942 ft³/s, May 27, 1996, gage height, 6.11 ft, (datum then in use); maximum gage height, 8.73 ft, January 22, 1997; no flow several days some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 551 ft³/s, June 2, gage height, 7.83 ft; minimum daily, 1.6 ft³/s, February 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e21	16	3.9	1.9	1.8	244	14	146	522	21	23	26
2	e20	17	3.8	1.9	1.8	248	14	121	531	20	22	21
3	e18	13	3.7	2.0	1.9	190	14	143	510	19	21	15
4	e16	10	3.5	2.2	1.9	55	15	149	389	15	29	21
5	e14	9.0	3.4	2.0	1.9	11	13	164	360	17	32	23
6	e12	8.9	3.3	2.0	1.8	11	12	203	392	16	35	21
7	11	12	3.2	1.9	1.8	9.4	13	236	370	16	33	16
8	12	11	3.0	1.9	1.8	11	16	205	286	29	36	12
9	9.7	8.5	2.9	2.0	1.8	11	18	265	237	31	32	15
10	8.0	7.7	2.9	1.9	1.8	12	18	290	99	30	39	13
11	10	12	2.7	1.9	1.9	11	18	278	31	29	30	19
12	15	18	2.5	1.9	1.7	13	19	238	24	32	24	19
13	10	16	2.5	1.8	1.7	21	18	229	19	22	18	16
14	8.1	11	2.4	1.9	1.8	18	17	278	15	20	20	18
15	8.0	9.6	2.2	1.9	1.8	22	9.1	327	15	20	23	20
16	8.2	20	2.1	1.9	1.7	16	8.7	346	16	23	15	25
17	14	22	2.1	1.9	1.7	24	7.4	361	17	22	16	37
18	12	21	2.1	2.0	1.7	23	7.1	402	13	15	16	17
19	12	19	2.1	1.9	1.6	24	7.5	389	13	11	15	16
20	13	13	3.7	1.9	1.7	15	7.3	376	24	11	13	15
21	11	7.1	4.6	1.9	1.7	9.4	7.4	383	43	13	15	21
22	12	6.0	3.2	1.8	1.7	8.1	9.2	387	52	17	19	23
23	16	5.6	3.2	1.8	1.7	7.8	7.6	391	55	15	20	24
24	18	4.8	3.4	1.8	14	8.1	7.1	412	34	20	20	16
25	12	4.6	2.6	1.8	49	7.3	7.7	406	32	18	19	20
26	15	4.6	2.1	1.7	116	6.8	17	403	37	15	14	18
27	15	4.6	2.0	1.7	202	11	22	420	37	11	17	16
28	20	4.4	2.2	1.7	236	15	19	437	36	19	21	23
29	16	4.3	2.0	2.0	---	15	19	445	24	22	18	20
30	13	4.1	2.0	1.8	---	14	35	444	18	20	23	13
31	11	---	2.0	1.8	---	13	---	476	---	13	26	---
TOTAL	411.0	324.8	87.3	58.5	657.7	1104.9	417.1	9750	4251	602	704	579
MEAN	13.3	10.8	2.82	1.89	23.5	35.6	13.9	315	142	19.4	22.7	19.3
MAX	21	22	4.6	2.2	236	248	35	476	531	32	39	37
MIN	8.0	4.1	2.0	1.7	1.6	6.8	7.1	121	13	11	13	12
AC-FT	815	644	173	116	1300	2190	827	19340	8430	1190	1400	1150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	8.32	6.03	4.72	51.7	64.7	92.7	36.2	130	136	40.7	13.7	10.7			
MAX	19.1	13.7	12.3	660	727	582	428	441	624	319	22.7	19.3			
(WY)	1987	1987	1994	1997	1997	1986	1986	1996	1995	1995	1999	1999			
MIN	.019	.028	.63	1.05	.92	1.20	2.36	4.35	4.72	5.89	.93	.045			
(WY)	1993	1993	1993	1992	1992	1992	1991	1992	1992	1991	1992	1992			

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1985 - 1999
ANNUAL TOTAL	27965.0	18947.3	
ANNUAL MEAN	76.6	51.9	51.0
HIGHEST ANNUAL MEAN			170
LOWEST ANNUAL MEAN			2.38
HIGHEST DAILY MEAN	648	531	896
LOWEST DAILY MEAN	2.0	1.6	.00
ANNUAL SEVEN-DAY MINIMUM	2.1	1.7	.01
INSTANTANEOUS PEAK FLOW		551	942
INSTANTANEOUS PEAK STAGE		7.83	8.73
ANNUAL RUNOFF (AC-FT)	55470	37580	36910
10 PERCENT EXCEEDS	442	215	43
50 PERCENT EXCEEDS	13	15	6.1
90 PERCENT EXCEEDS	2.4	1.9	1.8

e Estimated

CARSON RIVER BASIN

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV

LOCATION.--Lat 39°36'38", long 118°33'04", in SW 1/4 SW 1/4 sec.7, T.20 N., R.31 E., Churchill County, Hydrologic Unit 16050203, on right bank, 6 mi north of Stillwater.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 3,880 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow in canal is return flow from irrigated lands and ground water inflows from Fallon Indian Reservation. See schematic diagram of Carson River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft³/s, June 26, 1995, gage height, 19.04 ft; maximum gage height, 19.53 ft, June 21, 1996; no flow many days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 89 ft³/s, May 26, gage height, 17.50 ft; minimum daily, 1.2 ft³/s, December 25, 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e9.0	e3.8	29	12	62	32	14	79	11	9.1	43
2	20	e9.0	e3.7	23	12	66	31	16	83	11	6.2	30
3	20	e9.4	e3.6	21	12	71	30	32	87	7.9	3.2	17
4	19	e8.5	e3.5	20	13	76	45	51	84	7.1	2.1	16
5	16	e7.9	e3.4	18	13	77	33	66	81	12	15	12
6	13	e7.8	e3.3	16	13	72	30	77	74	11	37	22
7	e12	e7.7	e3.2	14	13	66	31	77	68	11	21	21
8	e12	e7.7	e3.1	15	13	66	27	76	69	9.8	15	21
9	e12	e7.6	e3.0	15	13	68	26	75	76	8.8	18	26
10	e12	e7.6	e2.8	14	13	70	31	71	81	11	19	11
11	e12	e7.4	e2.6	14	13	72	33	70	79	11	16	7.1
12	e12	e7.2	e2.4	14	13	75	33	74	76	8.8	41	9.3
13	e12	e7.0	e2.3	14	13	76	32	75	73	9.3	47	5.5
14	e12	e6.8	e2.2	14	12	77	31	75	72	4.8	45	5.7
15	e12	e6.6	2.1	14	12	79	29	74	65	3.8	18	7.4
16	e11	e6.4	1.9	15	12	81	26	74	54	6.7	21	5.8
17	e11	e6.2	1.8	15	12	82	30	73	53	14	7.7	3.6
18	e11	e6.0	1.8	15	12	82	27	77	51	20	4.3	6.4
19	e11	e5.8	1.6	14	12	82	27	78	44	17	5.1	10
20	e11	e5.7	1.6	14	11	81	26	74	40	10	5.7	8.0
21	e10	e5.6	1.4	14	11	81	26	60	37	4.7	11	7.6
22	e10	e5.5	1.7	14	11	80	27	41	33	3.5	7.9	12
23	e10	e5.3	1.3	14	12	76	20	43	27	4.4	14	14
24	e10	e5.1	1.3	14	12	80	23	56	16	4.1	15	14
25	e9.9	e5.0	1.2	13	13	67	33	68	16	2.4	14	15
26	e9.8	e5.0	1.2	13	28	75	32	81	14	1.4	7.2	13
27	e9.7	e4.8	2.5	13	42	62	29	82	12	3.3	4.0	15
28	e9.5	e4.6	18	13	49	53	25	81	10	6.2	12	13
29	e9.3	e4.4	35	13	---	31	21	82	15	3.1	11	9.3
30	e9.1	e4.0	43	13	---	26	17	80	15	1.8	12	13
31	e8.9	---	29	12	---	34	---	81	---	6.9	52	---
TOTAL	371.2	196.6	189.3	474	427	2146	863	2054	1584	247.8	516.5	413.7
MEAN	12.0	6.55	6.11	15.3	15.2	69.2	28.8	66.3	52.8	7.99	16.7	13.8
MAX	20	9.4	43	29	49	82	45	82	87	20	52	43
MIN	8.9	4.0	1.2	12	11	26	17	14	10	1.4	2.1	3.6
AC-FT	736	390	375	940	847	4260	1710	4070	3140	492	1020	821

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

	MEAN	8.34	3.55	3.05	9.48	12.4	23.5	12.5	22.5	31.2	9.86	8.17	12.4
	MAX	23.7	12.3	13.9	55.0	83.4	71.6	57.4	66.3	82.1	41.3	16.7	37.4
	(WY)	1997	1997	1998	1997	1997	1996	1998	1999	1995	1995	1999	1993
	MIN	.000	.000	.000	.000	.000	.000	.000	.42	.28	.42	.000	.000
	(WY)	1993	1993	1993	1993	1993	1992	1993	1993	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1991 - 1999
ANNUAL TOTAL	7589.0	9483.1	
ANNUAL MEAN	20.8	26.0	13.1
HIGHEST ANNUAL MEAN			28.8
LOWEST ANNUAL MEAN			.17
HIGHEST DAILY MEAN	91	87	198
LOWEST DAILY MEAN	1.1	1.2	.00
ANNUAL SEVEN-DAY MINIMUM	1.4	1.4	.00
INSTANTANEOUS PEAK FLOW		89	204
INSTANTANEOUS PEAK STAGE		17.50	19.53
ANNUAL RUNOFF (AC-FT)	15050	18810	9460
10 PERCENT EXCEEDS	57	75	43
50 PERCENT EXCEEDS	12	14	1.8
90 PERCENT EXCEEDS	3.1	3.8	.00

e Estimated

CARSON RIVER BASIN

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1986 to May 1987, October 1990 to October 1996, April 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--October 1990 to October 1996, April 1997 to current year.

WATER TEMPERATURE.--October 1990 to October 1996, April 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1990, to August 1993, hourly; September to December 1993, four times per hour; January to October 1996 hourly; April 1997 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. In April 1994, station was incorporated into the Stillwater Environmental Monitoring Program to gage environmental changes that may occur as a result of change in management of irrigation water of the Newlands Irrigation Project. Records represent water temperature at probe within 0.5°C. Interruptions in record due to periods of no flow (see Water-Discharge Records) and equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 67,200 microsiemens, October 19, 1990; minimum recorded, 342 microsiemens, September 19, 1993.

WATER TEMPERATURE.--Maximum recorded, 36.5°C, July 28, 1991; minimum, freezing point, on many days during winter months most years.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum recorded, 24,600 microsiemens, December 23; minimum recorded, 380 microsiemens, March 14.

WATER TEMPERATURE.--Maximum recorded, 30.0°C, August 3, 22, 24; freezing point many days December to February.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	826	611	785	651	612	629	---	---	---	3200	1200	2270
2	623	588	608	---	---	---	---	---	---	3590	1180	2430
3	633	596	615	---	---	---	---	---	---	3550	1120	2400
4	634	601	620	---	---	---	---	---	---	3350	1160	2290
5	654	622	643	---	---	---	---	---	---	3770	1480	2480
6	694	632	656	---	---	---	---	---	---	3720	1460	2390
7	710	631	666	---	---	---	---	---	---	3010	1590	2340
8	679	635	660	---	---	---	---	---	---	2760	1360	2100
9	665	629	651	---	---	---	---	---	---	2790	1390	2100
10	671	614	646	---	---	---	---	---	---	2800	1460	2150
11	709	663	679	---	---	---	---	---	---	2880	1530	2230
12	710	678	696	---	---	---	---	---	---	2920	1810	2450
13	713	690	699	---	---	---	---	---	---	4540	1310	2220
14	729	704	718	---	---	---	---	---	---	3890	1310	2210
15	715	691	702	---	---	---	14800	12100	13700	2910	1600	2310
16	714	688	700	---	---	---	15400	11700	13900	2700	1680	2300
17	697	666	682	---	---	---	16200	12300	14500	2530	1600	2230
18	696	673	684	---	---	---	16500	11600	14800	2480	1860	2240
19	835	690	741	---	---	---	16900	13600	15500	2430	1800	2180
20	726	680	699	---	---	---	17700	13000	16400	2470	1970	2260
21	775	711	724	---	---	---	20300	9920	16500	2440	1980	2210
22	843	632	713	---	---	---	22700	16000	19300	2250	1710	2090
23	743	694	717	---	---	---	24600	17400	20900	2360	1980	2160
24	744	708	727	---	---	---	23800	18900	21900	2680	2110	2400
25	720	652	671	---	---	---	23900	21000	22300	2330	2150	2240
26	686	650	659	---	---	---	22700	20100	21100	2410	1970	2250
27	698	602	645	---	---	---	21000	7440	18400	3110	1560	2320
28	606	586	596	---	---	---	7440	2550	4190	3000	1310	2160
29	627	592	617	---	---	---	3980	2090	3050	2990	1300	2210
30	684	625	665	---	---	---	2900	1700	2420	3840	1350	2410
31	681	631	646	---	---	---	2980	2200	2570	2680	2140	2380
MONTH	843	586	675	---	---	---	---	---	---	4540	1120	2270

CARSON RIVER BASIN

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2460	1890	2240	772	570	681	1110	909	1010	3280	2460	2690
2	3250	1410	2230	739	500	638	1090	837	927	2490	1230	1940
3	2950	1780	2230	720	504	629	1070	797	839	1230	610	763
4	2750	1980	2410	702	496	607	1480	790	872	612	583	597
5	2710	1750	2330	648	550	597	881	842	858	590	535	567
6	2580	1870	2250	682	577	635	997	853	902	754	497	579
7	2390	1740	2130	709	578	634	907	846	872	648	564	610
8	2580	2090	2310	660	555	613	886	848	866	601	534	577
9	2860	2040	2410	715	453	621	921	791	829	1060	591	736
10	3370	1420	2430	675	516	591	793	741	766	1060	600	742
11	3220	1210	2270	666	446	568	769	741	754	838	556	633
12	3220	1240	2240	620	512	555	874	743	797	868	624	705
13	2790	1860	2290	595	471	560	832	764	804	696	594	651
14	3150	1520	2220	721	380	547	973	734	804	870	589	666
15	3400	1380	2190	647	450	564	1100	766	852	866	638	715
16	2470	1880	2120	655	454	562	1260	988	1070	771	641	707
17	2500	1840	2100	618	465	544	1050	863	962	714	556	630
18	2420	1940	2200	642	473	553	1080	912	1030	691	606	641
19	2610	1830	2250	624	474	545	1460	1020	1200	666	615	628
20	2840	1560	2290	673	494	576	2100	1460	1670	675	617	637
21	2480	2090	2300	628	542	589	2090	1300	1690	754	651	694
22	2530	1800	2190	700	550	609	1300	966	1100	692	605	653
23	2390	1790	2130	706	634	674	1270	970	1110	1130	600	788
24	2240	1620	2060	1640	651	799	1340	1020	1210	790	634	691
25	2360	1740	2020	900	618	685	1020	874	918	725	621	641
26	1850	1040	1350	1140	618	665	1040	873	949	846	595	649
27	1140	849	981	939	590	639	3290	866	992	943	591	670
28	881	706	801	1120	662	732	1470	1040	1170	943	669	826
29	---	---	---	1040	696	787	3280	1470	2270	674	590	634
30	---	---	---	948	889	916	2590	1440	1870	592	553	570
31	---	---	---	1430	910	1090	---	---	---	564	544	553
MONTH	3400	706	2110	1640	380	645	3290	734	1070	3280	497	767
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	566	541	553	1580	1420	1520	3700	2070	2480	755	638	698
2	634	556	574	1460	1320	1380	2950	2400	2770	836	640	716
3	693	619	656	1360	1280	1310	2750	2230	2620	1190	836	1020
4	696	680	690	1880	1360	1720	3850	2090	2790	1160	937	1020
5	682	654	663	1890	1640	1810	4320	2170	3520	1440	982	1170
6	702	627	656	1640	1120	1300	2170	1590	1810	2150	994	1500
7	727	629	681	2090	1140	1820	2240	1470	1670	1750	1010	1170
8	727	652	697	1820	1650	1740	2560	1730	2100	1280	857	1050
9	653	592	611	1780	1390	1610	2140	1690	1840	1150	911	1050
10	962	608	757	1740	1380	1580	1830	1480	1630	1320	868	1050
11	878	640	725	1590	1400	1500	2300	1410	1700	2300	1220	1810
12	697	624	658	1490	1310	1410	1990	1300	1530	2850	1460	1760
13	678	617	647	1700	1290	1560	1470	1260	1320	4750	2850	4080
14	678	618	656	1490	1340	1390	1530	1250	1370	4530	3480	4000
15	670	647	660	1630	1320	1460	1780	1250	1590	3480	2310	2690
16	679	628	643	2000	1630	1820	1710	1500	1560	3060	2380	2690
17	1460	679	1120	2000	1820	1900	2460	1420	1790	4860	2950	3870
18	985	914	934	1830	1720	1770	3320	2280	2640	5800	4150	5230
19	1000	968	985	1720	1610	1660	3260	2880	3020	4150	2680	3010
20	1150	1000	1120	2010	1520	1690	5580	2880	3710	4790	3320	3730
21	1140	1090	1110	5510	1280	1980	5280	3080	3860	3700	2690	3130
22	1100	1080	1090	5710	1290	2810	3080	2440	2690	4170	2700	3080
23	1150	1080	1110	3800	1320	2370	2440	2020	2190	2950	1860	2120
24	1510	1060	1220	3870	3410	3620	2530	1580	2260	2730	1490	2020
25	2340	1490	2020	3410	2700	2980	1580	769	1020	1490	1070	1200
26	2130	1750	1910	3380	2980	3160	1220	766	979	1220	959	1060
27	1760	1660	1690	3260	2610	2910	2040	762	1230	959	838	873
28	2160	1730	1870	2900	2110	2380	3300	985	1650	1400	801	906
29	2730	2130	2490	2410	1710	2090	2000	1050	1580	2190	1400	1870
30	2130	1460	1770	3490	2020	2510	2750	1530	2100	3050	1990	2570
31	---	---	---	3980	3490	3790	2050	724	1170	---	---	---
MONTH	2730	541	1030	5710	1120	2020	5580	724	2070	5800	638	2070

CARSON RIVER BASIN
10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.5	13.0	16.5	11.5	7.5	9.0	---	---	---	2.5	.0	.5
2	19.0	14.0	16.5	11.0	8.5	---	---	---	---	3.0	.0	.5
3	17.0	13.0	14.5	---	---	---	---	---	---	3.5	.0	.5
4	16.5	11.0	13.5	---	---	---	---	---	---	3.0	.0	.5
5	16.5	10.0	13.0	---	---	---	---	---	---	4.0	.0	1.0
6	16.5	9.5	13.0	---	---	---	---	---	---	4.5	.0	1.0
7	17.0	9.5	13.5	---	---	---	---	---	---	4.5	.0	1.5
8	17.5	10.5	14.0	---	---	---	---	---	---	4.5	.0	1.5
9	17.5	10.0	13.5	---	---	---	---	---	---	4.5	.0	1.5
10	16.5	10.0	13.0	---	---	---	---	---	---	5.0	.0	1.5
11	15.5	8.0	11.5	---	---	---	---	---	---	3.5	.0	1.0
12	14.5	8.5	11.5	---	---	---	---	---	---	5.0	.0	2.0
13	16.5	9.5	13.0	---	---	---	---	---	---	5.5	1.0	2.5
14	16.0	10.5	13.0	---	---	---	5.0	---	---	5.0	1.0	2.5
15	14.0	10.0	12.0	---	---	---	4.5	.0	1.0	6.5	2.5	4.0
16	13.0	7.0	10.0	---	---	---	4.5	.0	1.0	7.0	3.5	4.5
17	12.0	5.5	9.0	---	---	---	5.0	.0	1.0	7.0	4.0	5.0
18	11.5	5.5	8.5	---	---	---	4.0	.0	.5	6.5	3.5	4.5
19	13.0	5.5	9.5	---	---	---	.0	.0	.0	7.0	3.5	5.0
20	13.5	7.0	10.0	---	---	---	.5	.0	.0	6.0	3.5	4.5
21	13.5	7.5	10.5	---	---	---	.5	.0	.0	5.5	2.0	3.5
22	15.0	9.0	12.0	---	---	---	.0	.0	.0	7.5	2.5	4.5
23	15.0	8.5	11.5	---	---	---	.0	.0	.0	4.0	2.5	3.5
24	12.0	9.5	10.5	---	---	---	.0	.0	.0	4.0	1.5	2.5
25	10.0	8.0	9.0	---	---	---	.0	.0	.0	3.0	1.5	2.0
26	12.0	8.0	9.5	---	---	---	.0	.0	.0	4.5	1.0	2.0
27	13.5	7.5	10.5	---	---	---	.0	.0	.0	6.0	.0	2.0
28	14.0	9.0	11.5	---	---	---	.0	.0	.0	6.5	.0	2.5
29	11.5	8.0	9.5	---	---	---	.0	.0	.0	6.5	.0	2.5
30	11.5	5.5	8.5	---	---	---	.0	.0	.0	5.0	1.0	2.5
31	11.0	4.0	7.5	---	---	---	.5	.0	.0	6.0	1.5	3.5
MONTH	20.5	4.0	11.6	---	---	---	---	---	---	7.5	.0	2.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	8.0	2.0	4.0	11.5	7.5	9.5	9.5	5.0	7.0	23.0	9.0	15.0
2	7.5	1.5	3.5	11.0	7.0	9.0	11.5	5.0	8.0	16.0	11.5	13.0
3	9.0	1.5	4.5	10.5	7.5	9.0	8.5	4.0	6.0	13.5	10.0	12.0
4	8.0	3.5	5.5	9.5	7.0	8.0	9.0	2.5	6.0	16.0	9.5	12.5
5	10.0	4.0	6.0	8.5	5.0	7.0	8.5	6.5	7.5	17.5	10.5	14.0
6	7.0	4.5	5.5	8.5	5.0	7.0	7.5	4.5	6.0	19.5	13.0	16.0
7	9.5	4.5	6.5	9.0	5.5	7.0	12.0	5.0	8.5	21.0	14.5	17.5
8	7.5	5.0	6.0	7.5	5.0	6.5	9.0	4.5	7.5	19.5	14.5	17.0
9	5.5	2.0	4.5	8.0	5.0	6.0	10.5	3.0	6.5	18.0	12.0	15.0
10	6.5	.5	2.5	7.5	3.5	6.0	8.5	4.5	6.5	17.5	12.0	14.5
11	7.0	.0	2.5	9.5	5.0	7.0	12.0	6.0	9.0	20.0	13.5	16.5
12	6.0	.5	3.0	9.5	4.5	7.0	16.0	7.5	12.0	20.5	16.5	18.5
13	5.5	2.0	3.0	9.0	6.0	7.5	18.0	10.0	14.0	19.0	14.5	16.5
14	7.5	1.5	4.0	10.5	6.0	8.0	18.0	11.0	14.5	18.0	12.5	15.0
15	9.5	1.5	4.5	10.5	8.0	9.0	18.0	10.5	14.0	18.0	11.5	14.5
16	7.5	4.5	6.0	12.0	7.0	9.5	19.0	10.5	15.0	18.5	12.0	15.5
17	10.5	4.5	7.0	13.0	8.0	10.5	19.0	12.5	16.0	20.5	13.5	17.0
18	11.0	5.5	7.5	13.5	9.0	11.5	21.0	13.5	17.0	19.5	16.0	17.5
19	11.5	4.0	6.5	11.5	9.5	10.5	19.5	13.5	16.5	21.5	15.0	18.0
20	8.0	2.5	5.0	9.5	8.0	9.0	21.0	14.0	17.0	22.5	17.0	19.5
21	8.5	3.5	5.0	10.5	6.0	8.0	17.5	13.0	15.0	23.5	16.5	20.0
22	9.0	2.5	5.5	11.5	7.0	9.5	15.0	10.5	12.5	22.0	16.0	19.0
23	11.5	4.0	7.0	13.5	8.5	11.0	14.5	8.0	11.0	23.5	16.5	20.0
24	13.5	5.0	8.0	14.0	9.0	11.5	17.0	9.5	13.5	23.5	18.5	21.0
25	11.0	5.5	7.5	15.0	10.0	12.5	19.5	12.0	16.0	24.5	18.5	21.5
26	8.0	4.0	6.0	16.5	11.5	13.5	16.0	13.0	14.5	25.5	20.0	22.5
27	10.5	5.5	8.0	15.0	10.0	12.5	18.5	11.0	14.5	26.0	20.0	23.0
28	10.5	6.0	8.5	14.5	8.5	11.5	13.0	9.5	11.5	25.5	20.5	23.0
29	---	---	---	12.5	8.5	10.5	9.5	6.5	8.0	22.5	19.0	20.5
30	---	---	---	13.0	6.5	9.5	14.5	7.0	11.0	23.0	18.0	20.0
31	---	---	---	9.5	6.0	8.0	---	---	---	22.5	17.5	19.5
MONTH	13.5	.0	5.5	16.5	3.5	9.1	21.0	2.5	11.4	26.0	9.0	17.6

CARSON RIVER BASIN

10312277 PAIUTE DRAIN BELOW TJ DRAIN NEAR STILLWATER, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.5	18.0	20.0	28.5	22.5	25.0	29.0	20.5	24.5	20.5	15.5	18.0
2	19.0	16.0	17.5	26.5	22.0	24.0	29.0	19.5	24.0	23.0	16.5	19.0
3	16.0	14.0	14.5	25.5	20.0	22.5	30.0	20.0	24.5	22.5	15.5	18.5
4	15.5	13.0	14.0	24.0	18.0	21.0	29.5	20.0	24.0	22.0	14.0	18.0
5	19.0	14.0	16.0	24.5	18.5	22.0	27.5	19.5	23.0	23.5	14.0	18.5
6	21.0	17.0	18.5	26.5	21.0	24.0	21.5	18.5	20.5	23.0	16.0	19.5
7	21.0	16.5	18.5	27.0	22.5	24.5	26.0	17.0	21.0	23.5	17.5	20.0
8	21.0	16.0	18.5	25.5	19.0	22.5	26.0	18.0	21.5	23.5	17.0	20.0
9	21.5	17.0	19.0	26.0	20.5	23.5	25.0	17.5	21.5	23.5	18.0	20.5
10	22.5	17.5	20.0	26.5	21.5	24.0	23.5	18.0	20.5	25.0	17.5	20.5
11	24.0	18.5	21.0	27.5	21.5	24.5	24.5	16.0	20.0	25.0	17.0	20.0
12	25.0	20.0	22.5	27.5	22.5	25.5	26.5	19.0	22.5	23.0	16.0	19.0
13	26.0	21.0	23.5	27.5	23.5	25.5	27.0	20.0	23.0	26.5	15.5	20.5
14	27.0	22.0	24.5	26.0	22.0	24.0	26.0	19.5	22.0	26.5	17.0	21.0
15	26.0	23.0	24.5	27.0	19.5	23.0	26.5	17.0	21.5	26.0	15.0	20.0
16	26.0	21.5	24.0	26.0	19.0	22.5	27.5	18.0	22.5	26.0	14.5	20.0
17	26.0	22.0	24.0	25.0	19.5	22.5	28.5	17.5	23.0	27.5	15.5	21.0
18	25.5	22.5	24.0	26.0	20.0	23.0	27.0	18.5	22.5	23.5	17.0	19.5
19	25.5	21.5	23.5	26.5	20.5	23.5	29.0	17.5	23.0	24.5	16.0	19.5
20	26.0	22.5	24.5	26.5	20.5	23.5	28.0	18.0	23.0	24.5	16.5	19.5
21	26.0	22.5	24.5	26.0	19.0	22.5	28.5	20.0	23.5	25.0	16.5	20.0
22	26.0	22.5	24.0	26.0	19.0	23.0	30.0	19.5	24.0	19.0	16.5	17.5
23	26.5	22.0	24.0	26.5	19.5	23.0	28.0	21.0	23.5	24.0	16.5	19.5
24	26.5	21.5	24.5	26.0	19.5	22.5	30.0	21.0	24.5	23.0	17.0	20.0
25	24.0	19.0	22.0	27.0	18.5	22.5	29.0	20.5	24.0	23.5	16.5	20.0
26	25.0	19.5	22.5	27.5	19.0	23.5	29.5	19.5	23.0	21.0	14.5	17.5
27	25.0	19.5	22.5	28.5	20.0	24.0	29.5	19.5	23.0	18.5	12.0	15.0
28	26.0	20.0	23.0	29.0	20.5	25.0	27.5	18.5	23.0	18.5	10.5	14.0
29	26.5	21.0	24.0	28.0	21.0	24.5	28.0	19.0	23.0	19.5	9.5	14.5
30	28.0	22.5	25.5	29.0	20.0	24.0	24.0	17.5	20.5	19.5	12.0	16.0
31	---	---	---	29.5	20.5	25.0	21.5	16.5	18.5	---	---	---
MONTH	28.0	13.0	21.6	29.5	18.0	23.5	30.0	16.0	22.5	27.5	9.5	18.9

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figures 16.

Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Carson River Basin								
Indian Creek above Mouth near Gardnerville, NV (10309035)	Lat 38°52'45", long 119°42'04", in NW ¹ / ₄ NE ¹ / ₄ sec.26, T.12 N., R.20 E., Douglas County, Hydrologic Unit 16050201, 0.75 mi above confluence with East Fork Carson River, and 5.0 mi south of Gardnerville. Drainage area is 25.4 mi ² .	1994-98 ⁺ 1999	2-9-99	3.53	237	3-10-95	7.13	1,800
Buckeye Wash at East Valley Road near Minden, NV (10309075)	Lat 39°57'53", long 119°42'13", in SW ¹ / ₄ NE ¹ / ₄ sec.26, T.13 N., R.20 E., Douglas County, at culvert on East Valley Road 2.9 mi NE of Gardnerville. Hydrologic Unit 16050201. Drainage area is 73.8 mi ² .	1992, 1994-95, 1997-99	1999	--	0	7-14-92	--	E _{3,000}
Johnson Wash at Fremont Drive near Minden, NV (1030909087)	Lat 39°57'53", long 119°42'13", in SW ¹ / ₄ NE ¹ / ₄ sec.26, T.13 N., R.20 E., Douglas County, at culvert on East Valley Road 2.9 mi NE of Gardnerville. Hydrologic Unit 16050201. Drainage area is 73.8 mi ² .	1991-97, 1999	1999	--	0	7-22-94	--	E _{1,400}
Brunswick Canyon near New Empire, NV (10311450)	Lat 39°10'20", long 119°41'10", in NW ¹ / ₄ NE ¹ / ₄ sec.13, T.15 N., R.20 E., Carson City, Hydrologic Unit 16050202, 0.3 mile upstream from mouth, and 2.5 mi east of New Empire. Drainage area is 12.7 mi ² .	1966-78 1980-99	1-05-99	2.20	E _{0.4}	3-11-95	5.02	245
Sixmile Canyon Creek at Hwy 50 near Dayton, NV (10311725)	Lat 39°17'22", long 119°32'16", in SE ¹ / ₄ SW ¹ / ₄ sec.32, T.17 N., R.22 E., Lyon County, Hydrologic Unit 16050202, about 4.9 mi east of Dayton. Drainage area is 17.29 mi ² .	1986, 1995, 1998-99	2-8-99	9.81	E ₃₀	2-19-86	--	500

^E Estimated.

⁺ Operated as a continuous recording station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MISCELLANEOUS SITES

The following table contains discharge data for the sites that were measured during the water years.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Carson River Basin					
Cottonwood Slough at State Highway 88 near Minden, NV (1030909020)	Carson River	Lat 38°57'08", long 119°46'42", in NE ¹ / ₄ NW ¹ / ₄ sec.31, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at State Highway 88, 0.7 mi south of U.S. Highway 395, and 0.6 mi west of Minden.	1994-99	10/16/1998	3.5
Martin Slough at U.S. Highway 395 near Minden, NV (1030909042)	Carson River	Lat 38°58'01", long 119°46'42", in NE ¹ / ₄ NW ¹ / ₄ sec.30, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at U.S. Highway 395, 0.3 mi north of State Highway 88, and 1.1 mi northwest of Minden.	1994-99	10/16/1998	5.2
Martin Slough- Heyburn Ditch Return at U.S. Highway 395 near Minden, NV (1030909055)	Carson River	Lat 38°58'07", long 119°46'40", in NW ¹ / ₄ NE ¹ / ₄ sec.30, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at U.S. Highway 395, 0.5 mi north of State Highway 88, and 1.2 mi northwest of Minden.	1994-99	10/16/1998	19
St. Louis Straight Ditch at State Highway 88 near Minden, NV (1030909710)	Carson River	Lat 38°56'22", long 119°46'44", in NE ¹ / ₄ NW ¹ / ₄ sec.6, T.12 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at State Highway 88, 1.6 mi south of U.S. Highway 395, and 1.2 mi southwest of Minden.	1994-99	10/16/1998 10/23/1998	0 0
Home Slough at State Highway 88 near Minden, NV (10309110)	Carson River	Lat 38°56'36", long 119°46'43", in NE ¹ / ₄ SW ¹ / ₄ sec.31, T.13 N., R.20 E., Douglas County, Hydrologic Unit 16050201, at State Highway 88, 1.3 mi south of U.S. Highway 395, and 0.9 mi southwest of Minden.	1994-99	10/16/1998	2.1
Jobs Canyon Creek near Minden, NV (10310360)	West Fork Carson River	Lat 38°53'26", long 119°50'20", in SW ¹ / ₄ NW ¹ / ₄ sec.22, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 3.6 mi southwest of Centerville. Drainage area is 2.97 mi ² .	1976, 1981-83, 1989-99	01/15/1999 06/30/1999 09/08/1999 09/29/1999	3.0 5.0 2.7 3.1
Stutler Canyon Creek near Minden, NV (10310375)	West Fork Carson River	Lat 38°54'35", long 119°50'32", in NW ¹ / ₄ NW ¹ / ₄ sec.15, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 5.3 mi southwest of Minden.	1982-83, 1997-99	01/15/1999 06/30/1999 09/08/1999 09/29/1999	1.0 .49 .75 .74
Monument Creek near Minden, NV (10310380)	West Fork Carson River	Lat 38°55'03", long 119°50'44", in NE ¹ / ₄ SE ¹ / ₄ sec.9, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, above diversion structure and 5.0 mi southwest of Minden.	1982-83, 1997-99	01/15/1999 06/30/1999 09/08/1999 09/29/1999	4.2 4.1 4.0 4.4
Genoa Canyon Creek at Genoa, NV (10310410)	Carson River	Lat 39°00'02", long 119°51'00", in SE ¹ / ₄ SW ¹ / ₄ sec.9, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.5 mi southwest of Genoa. Drainage area is 2.24 mi ² .	1969, 1972, 1976-77, 1981-82, 1988-99	01/15/1999 06/30/1999 09/08/1999 09/29/1999	1.5 2.0 1.3 1.2

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)
Carson River Basin--Continued					
James Canyon Creek near Genoa, NV (10310425)	West Fork Carson River	Lat 39°03'07", long 119°50'25", in NW ¹ / ₄ NE ¹ / ₄ sec.27, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 3.3 mi north of Genoa.	1997-99	01/15/1999	1.1
				06/30/1999	4.7
				09/08/1999	1.8
				09/29/1999	1.6
Water Canyon near Genoa, NV (10310430)	Carson River	Lat 39°04'17", long 119°50'52", in SW ¹ / ₄ SE ¹ / ₄ sec.16, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 1.5 mi upstream from Foothill Road and about 4.5 mi north of Genoa.	1996-99	01/15/1999	2.1
				06/30/1999	4.9
				09/08/1999	2.4
				09/29/1999	2.6
Vicee Canyon Creek near Sagebrush Ranch near Carson City, NV (10311260)	Carson River	Lat 39°11'02", long 119°48'18", in NW ¹ / ₄ NW ¹ / ₄ sec.12, T.15 N., R.19 E., Carson City, Hydrologic Unit 16050201, 0.7 mi southwest of intersection of West Ormsby Boulevard and Combs Canyon Road.	1984-85	10/22/1998	.15
				11/16/1998	.47
			1989-97 ⁺	01/04/1999	.17
				1998-99	02/08/1999
			03/22/1999		.43
			05/03/1999		.96
			06/14/1999		.21
			08/05/1999	.03	
Sixmile Canyon near Dayton, NV (10311725)	Carson River	Lat 39°17'22", long 119°32'16", in SE ¹ / ₄ SW ¹ / ₄ sec.32, T.17 N., R.22 E., 4.8 miles northeast of Dayton.	1986, 1995, 1998-99	02/08/1999	30

⁺ Operated as a continuous recording station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

MISCELLANEOUS SITES

The following table contains discharge data for the sites that were measured during previous water years and have not yet been published.

Station name and number	Tributary to	Location and drainage area	Period of record (water years)	Measurements	
				Date	Discharge (ft ³ /s)
Carson River Basin					
Jobs Canyon Creek near Minden, NV (10310360)	West Fork Carson River	Lat 38°53'26", long 119°50'20", in SW ¹ / ₄ NW ¹ / ₄ sec.22, T.12 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 3.6 mi southwest of Centerville. Drainage area is 2.97 mi ² .	1976, 1981-83, 1989-99	01-02-1997	^e 35
Genoa Canyon Creek at Genoa, NV (10310410)	Carson River	Lat 39°00'02", long 119°51'00", in SE ¹ / ₄ SW ¹ / ₄ sec.9, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 0.5 mi southwest of Genoa. Drainage area is 2.24 mi ² .	1969, 1972, 1976-77 ⁺ , 1981-82, 1988-99	01-02-1997	^e 150
Water Canyon near Genoa, NV (10310430)	Carson River	Lat 39°04'17", long 119°50'52", in SW ¹ / ₄ SE ¹ / ₄ sec.16, T.14 N., R.19 E., Douglas County, Hydrologic Unit 16050201, 1.5 mi upstream from Foothill Road and about 4.5 mi north of Genoa.	1984-85 1989-97 ⁺ 1998-99	01-02-1997	^e 120

+ Operated as miscellaneous measurement site

^e Estimated

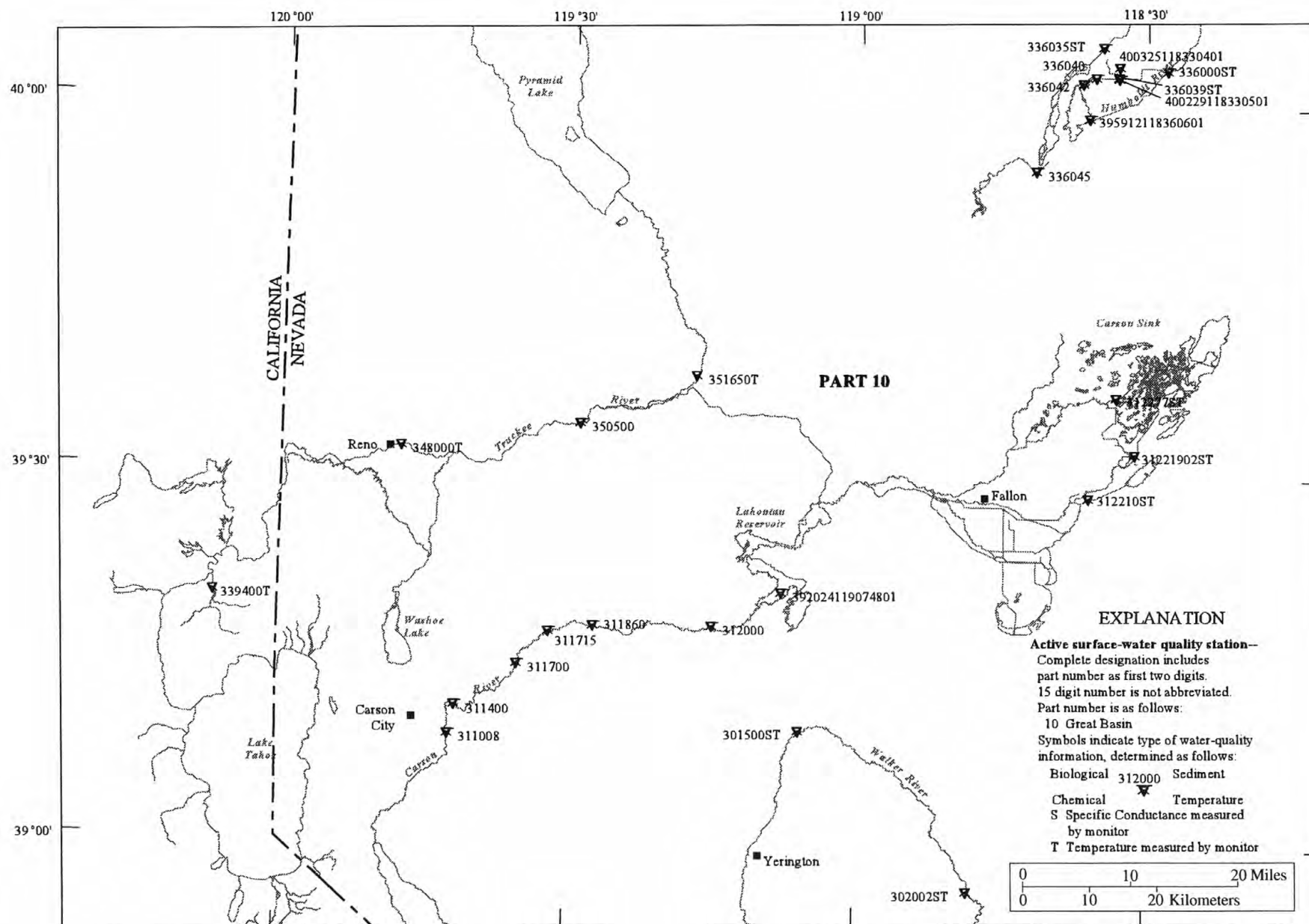


Figure 29. Surface-water quality stations, west-central Nevada.

QUALITY OF SURFACE WATER

CARSON RIVER BASIN

Water-quality measurements in the following table were made as part of the Carson River Mercury Superfund Monitoring Study to determine loads into and out of Lake Lahontan. All mercury and methylmercury analyses were performed by Frontier Geosciences, Inc. using methods described in Liang and Bloom (1993) and Bloom (1989). Samples were collected in 250-ml glass bottles, filtered through a 0.45- μ m pore-size capsule filter and chilled to 4° C. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data.." The following sites are shown in figure 29.

The following sites are shown in figure 29.											DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD ARD (00400)
STATION NUMBER	STATION NAME			DATE	TIME	SAMPLE TYPE	FEET PER SECOND (00061)	DUCT-ANCE (US/CM) (00095)	(STAND ARD UNITS) (00400)				
10311008	CARSON RIVER AT LLOYDS BRIDGE NEAR CARSON CITY, NV			10-20-98	1045	ENVIRONMENTAL	170	255	7.9				
				11-30-98	1120	ENVIRONMENTAL	274	255	8.1				
				02-01-99	1115	SOURCE BLANK	--	--	--				
				02-01-99	1125	EQUIPMENT BLANK	--	--	--				
				02-01-99	1245	ENVIRONMENTAL	355	278	7.9				
10311400	CARSON RIVER AT DEER RUN ROAD NEAR CARSON CITY, NV			10-20-98	1315	ENVIRONMENTAL	189	265	8.4				
				11-30-98	1320	ENVIRONMENTAL	296	264	8.2				
				02-01-99	1130	ENVIRONMENTAL	328	300	8.2				
10311700	CARSON RIVER AT DAYTON, NV			10-21-98	1015	ENVIRONMENTAL	181	287	7.9				
				12-01-98	1120	ENVIRONMENTAL	440	269	8.1				
				02-02-99	1130	ENVIRONMENTAL	322	298	7.9				
10311715	CARSON RIVER BELOW DAYTON, NV			10-21-98	1345	ENVIRONMENTAL	181	314	8.0				
				12-01-98	1355	ENVIRONMENTAL	445	283	8.1				
				02-04-99	1050	ENVIRONMENTAL	317	301	8.0				
				10-22-98	1430	ENVIRONMENTAL	181	332	7.7				
10311860	CARSON RIVER AT CHAVES RANCH NEAR CLIFTON, NV			12-02-98	1120	ENVIRONMENTAL	498	260	7.6				
				02-02-99	1230	ENVIRONMENTAL	322	340	8.1				
				10-22-98	1050	ENVIRONMENTAL	173	341	7.9				
				12-03-98	1100	ENVIRONMENTAL	534	268	7.9				
10312000	CARSON RIVER NEAR FORT CHURCHILL, NV			02-03-99	1100	ENVIRONMENTAL	350	330	8.1				
				392024119074801	10-23-98	1145	ENVIRONMENTAL	--	360	8.1			
				LAHONTAN RESERVOIR SAMPLE POINT NEAR CARSON RIVER MOUTH	12-07-98	1200	ENVIRONMENTAL	--	303	7.7			
				02-03-99	1200	ENVIRONMENTAL	--	333	7.8				
DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE OF (MM HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	MERCURY METHYL, WATER, UNFLTRD REC, (NG/L) (50284)	MERCURY METHYL, WATER, FLTRD REC, (NG/L) (50285)	MERCURY WATER, UNFLTRD (NG/L) (50286)	MERCURY WATER, FLTRD (NG/L) (50287)	SEDI-MENT, CHARGE, SUS-PENDE (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
10-20-98	--	7.2	651.	12.6	122	.192	.082	3.74	1.27	14.	6.4	88.	
11-30-98	--	6.4	640.	12.2	118	.316	.105	19.0	9.07	15.	11.	98.	
02-01-99	--	--	--	--	--	.023	--	0.19	--	--	--	--	
02-01-99	--	--	--	--	--	.016	--	53.8	--	--	--	--	
02-01-99	9.0	2.5	650.	12.5	108	.171	.054	17.0	4.93	49.	47.	89.	
10-20-98	--	9.9	649.	13.5	140	.151	.095	5.24	1.26	9.	4.6	97.	
11-30-98	--	7.0	640.	12.1	119	.340	.083	12.1	3.06	18.	16.	91.	
02-01-99	15.0	4.5	652.	10.7	97	.235	.063	40.7	3.27	26.	23.	78.	
10-21-98	--	8.1	640.	9.8	99	.537	.256	88.9	3.85	9.	4.4	93.	
12-01-98	--	6.5	650.	11.9	114	--	.320	328.	3.24	73.	87.	91.	
02-02-99	6.0	4.2	655.	12.3	110	.357	.148	88.7	4.78	23.	20.	98.	
10-21-98	--	11.5	653.	11.2	120	.990	.610	215	9.56	11.	5.4	98.	
12-01-98	--	8.0	655.	12.6	124	2.50	.440	1950	9.48	133.	160.	71.	
02-04-99	13.0	4.7	645.	11.4	105	.750	.271	139	3.21	35.	30.	88.	
10-22-98	--	12.6	657.	9.2	101	1.95	.661	1360	18.63	10.	4.9	63.	
12-02-98	--	6.4	655.	12.4	117	.526	2.70	2140	9.30	110.	148.	75.	
02-02-99	15.0	5.0	659.	11.4	103	.846	.321	232	5.73	32.	28.	79.	
10-22-98	--	11.1	660.	9.1	96	1.51	.447	968	38.5	15.	7.0	71.	
12-03-98	--	7.3	645.	11.5	113	2.35	.990	1690	17.6	87.	125.	71.	
02-03-99	11.0	6.0	655.	11.2	105	.917	.288	491	9.01	31.	29.	64.	
10-23-98	--	12.7	662.	7.9	86	.922	.287	1480	14.8	55.	--	98.	
12-07-98	--	2.3	661.	12.	101	.710	.280	743	18.3	--	--	--	
02-03-99	10.0	4.5	655.	12.6	114	.717	.385	800	13.8	--	--	--	

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 August 1983 to June 1997, hourly; July 1997 to July 1998, four time per hour; August 1998 to current year, hourly.

DATUM.--Elevation of land-surface datum is 3,962 ft. Measuring point: Edge of recorder shelf, 0.31 ft above land-surface datum.

REMARKS.--Mori Well.

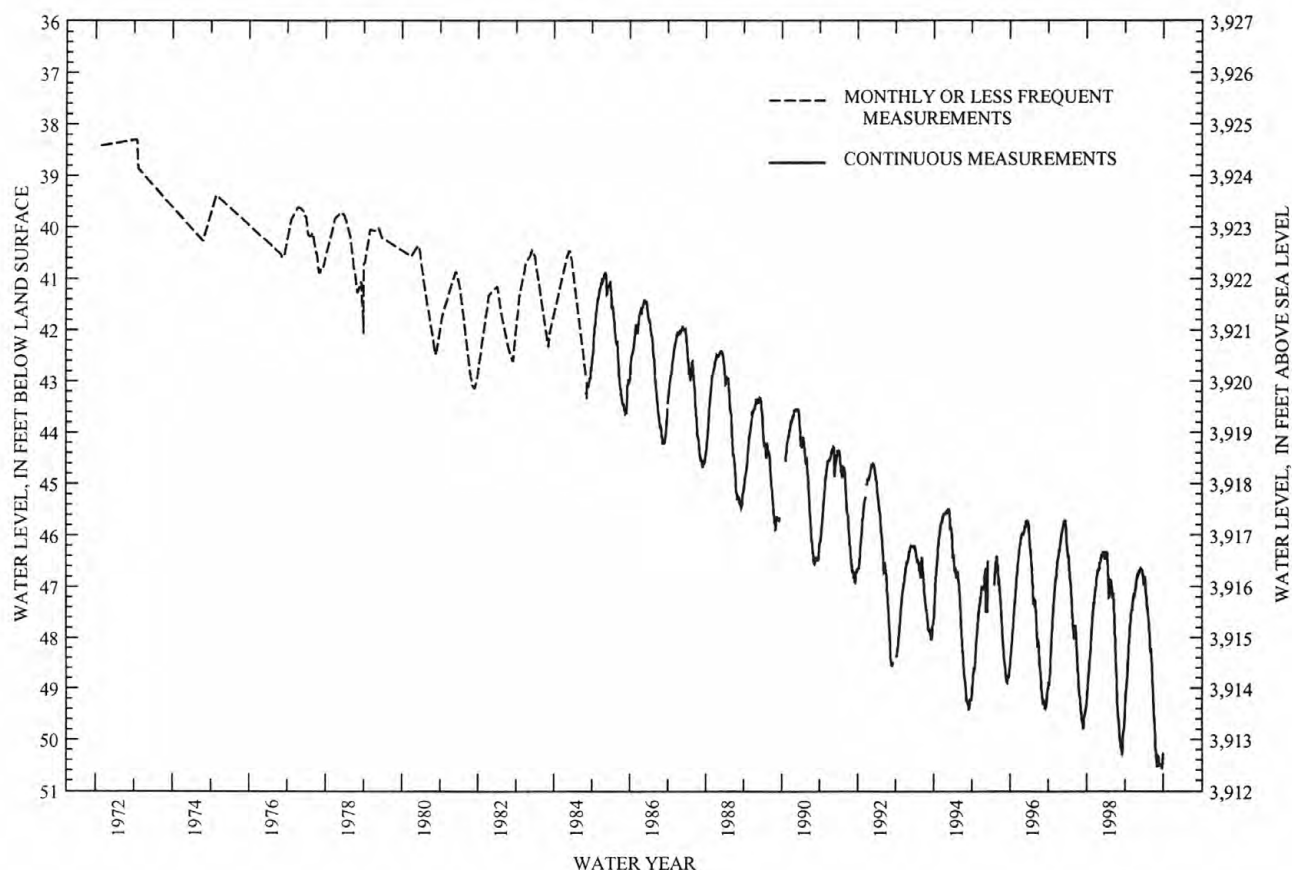
PERIOD OF RECORD.--1971, 1972, 1974; 1976 to August 1983, monthly; August 1983 to September 1986, hourly (unpublished and available in the files of the U. S. Geological Survey); September 1986 to June 1997, hourly; July 1997 to July 1998, four times per hour; August 1998 to current year, hourly.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.30 ft below land-surface datum, October 9, 1972; lowest recorded, 50.59 ft below land-surface datum, September 17, 18, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.23	48.23	47.44	47.11	46.76	46.69	46.87	47.47	48.25	49.57	50.53	50.53
10	49.10	48.04	47.44	47.04	46.75	---	46.83	47.58	48.37	49.77	50.47	50.50
15	48.97	47.87	47.34	46.96	46.70	---	47.02	47.66	48.61	49.96	50.34	50.50
20	48.85	47.76	47.19	46.86	46.68	46.76	47.13	47.84	48.93	50.20	50.44	50.54
25	48.70	47.66	47.18	46.82	46.65	46.83	47.23	48.01	49.10	50.36	50.48	50.39
EOM	48.43	47.50	47.15	46.74	46.66	46.96	47.43	48.28	49.36	50.46	50.53	50.26

WATER YEAR 1999 HIGH 46.65 February 25 LOW 50.58 September 18



GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 001, Churchill 005, Douglas.

Independent City code: 510, Carson City.

Water-use codes: H, domestic; I, irrigation; P, public supply; S, stock; U, unused.

Depths, perforated interval, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Elevation is that of LSD, with reference to sea level.

Water Levels: Levels above LSD are listed as negative values.

Water Level Status: F, site flowing; R, site recently pumped.

Water Level Method: G, pressure-gage; R, reported; S, steel tape; T, electric tape; Z, reported by Nevada Division of Water Resources.

Locations of following sites are shown in figure 21.

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
						Top	Bottom		Date	Feet	Status	Method
101 N18 E29 04CBBD1	392705118443001	1999	001	S	19.			3945.	03/16/1999	2.40		T
									04/19/1999	2.70		T
									06/17/1999	2.50		T
									08/11/1999	3.60		T
									09/14/1999	3.80		S
101 N19 E29 18DCBB1	393027118461501	1997-99	001	P	510.	344.	510.	3956.59	11/10/1998	45.0		T
									01/07/1999	44.0		T
									03/16/1999	43.60		T
									06/16/1999	44.10		T
101 N19 E29 28BBCA2	392914118442702	1999	001	U	75.	65.	75.	3964.	06/03/1999	49.		R
									06/10/1999	49.87		S
101 N19 E29 28BBBD1	392910118442801	1999	001	U	75.	65.	75.	3964.	06/02/1999	51.		R
									06/03/1999	51.03		S
									06/10/1999	51.13		S
101 N19 E29 28CCCC1	392831118443201	1995-99	001	I	26.	19.	26.	3950.25	03/16/1999	8.70		T
									04/19/1999	9.0		T
									06/15/1999	9.60		T
									08/11/1999	10.40		T
101 N19 E29 29BACB1	392907118453701	1980-99	001		95.	39.	95.	3974.20	10/08/1998	62.10		T
									01/07/1999	59.69		S
101 N19 E29 30CBAD1	392850118463401	1978-99	001	P	484.	404.	484.	3959.55	10/08/1998	48.21		S
									01/07/1999	47.11		S
101 N19 E29 30CBAD3	392850118463502	1995-99	001	U	12.	10.	12.	3959.90	11/10/1998	5.20		T
									12/02/1998	5.30		T
									01/07/1999	5.40		T
101 N19 E29 30CDBC1	392837118463201	1978-99	001	P	506.	496.	506.	3959.44	11/12/1998	44.99		S
									01/07/1999	43.81		S
									04/20/1999	46.05		S
									06/16/1999	46.72		S
									10/06/1998	47.55		S
101 N19 E29 31ABAC1	392826118460501	1998-99	001	P	392.	350.	390.	3960.40	01/07/1999	45.68		S
									03/25/1999	43.41		S
									04/20/1999	45.60		S
									06/16/1999	46.15		S
									11/22/1998	5.20		T
104 N15 E19 13ADDD1	390955119471601	1998-99	510	U	127.	60.	120.	4800.	10/05/1998	2.37		Z
									01/04/1999	2.53		Z
									04/09/1999	1.43		Z
									07/08/1999	2.84		Z
104 N15 E20 02CACC2	391125119423002	1993-99	510	U	39.	37.	39.	4639.	10/05/1998		F	
									01/04/1999		F	
									04/09/1999		F	
									07/08/1999		F	
104 N15 E20 04DBDD1	391126119441901	1991-99	510	U	89.	68.	88.	4682.	10/05/1998	13.96		Z
									01/07/1999	14.28		Z
									04/09/1999	13.50		Z
									07/09/1999	13.50		Z
104 N15 E20 04DBDD2	391126119441902	1991-99	510	U	33.	30.	32.	4682.	10/05/1998	14.22		Z
									01/07/1999	14.70		Z
									04/09/1999	13.97		Z
									07/09/1999	13.92		Z

GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
						Top	Bottom		Date	Feet	Status	Method
105 N12 E20 15DCAA1	385355119430701	1997-99	005	P	143.	121.	141.	4886.	03/11/1999	89.0		T
105 N13 E19 09DAAB1	390016119504101	1988-99	005	P	159.	79.	159.	4776.	03/11/1999	28.0		T
105 N13 E19 12BBAD1	390037119480701	1995-99	005	S	400.			4667.	03/11/1999	-12.70		G
105 N13 E19 24CADD1	385821119475001	1992-99	005	S	401.			4685.	03/11/1999	-13.60		G
105 N13 E19 33DADD1	385637119503701	1993-99	005	H	80.			4765.	03/11/1999	17.0		T
105 N13 E20 14AADA1	385944119414501	1994-99	005	U	301.			4890.	01/12/1999	102.86		S
									03/11/1999	103.20		T
									06/24/1999	103.90		T
									09/14/1999	104.52		S
									01/12/1999	84.44		S
105 N13 E20 23DDDA1	385815119413101	1993-99	005	I	392.	310.	392.	4885.	03/11/1999	84.90		T
									06/24/1999	85.20		T
									09/14/1999	85.82		S
									03/11/1999	61.88		S
									01/12/1999	34.98		S
105 N13 E21 28CCBC1	385724119382301	1995-99	005	S	95.			5160.	03/11/1999	61.88		S
105 N13 E21 32BDAD1	385657119385801	1994-99	005	I	608.			5141.	03/11/1999	33.70		T
									06/24/1999	34.10		T
									09/14/1999	35.00		S
									03/11/1999	9.78		S
105 N14 E19 15BBAB1	390501119502401	1986-99	005	S	240.	125.	290.	5138.	03/11/1999	9.78		S
105 N14 E19 22ABAD1	390407119494601	1996-99	005	U	44.			5051.	03/11/1999	7.02		S
105 N14 E20 07CBAD2	390525119465902	1995-99	005	U	236.			4835.	03/11/1999	114.30		T
105 N14 E20 33BCDA1	390208119444601	1993-99	005	I	218.	60.	240.	4683.	03/11/1999	1.86		S

EAGLE VALLEY GROUND WATER STUDY

Water levels at 29 wells in a cooperative study with Carson City Utilities Department. The purpose of the project is to determine the quantity of ground water that flows into Eagle Valley from the surrounding mountains.

WATER USE: U, unused.

WATER-LEVEL METHOD: S, steel-tape; T, electric tape.

The following sites are shown in figures 21.

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)		
					Date	(Feet)	Method
104 N14 E19 01AACB1	390641119472901	U	11.	4825.2	11/20/1998	4.3	T
					01/05/1999	4.1	T
					02/18/1999	3.5	T
					05/21/1999	3.5	T
104 N14 E19 01AACD1	390637119472301	U	312.	4831.8	10/28/1998	17.0	T
					11/20/1998	16.7	T
					01/05/1999	16.4	T
					02/12/1999	15.7	T
					05/21/1999	16.1	T
104 N14 E19 01AACD3	390637119472303	U	120.	4831.8	10/28/1998	16.2	T
					11/20/1998	15.9	T
					01/05/1999	15.6	T
					02/12/1999	15.0	T
					05/21/1999	15.1	T
104 N14 E19 01AADB1	390642119472101	U	401.	4822.8	10/28/1998	10.9	T
					11/20/1998	10.6	T
					01/05/1999	10.2	T
					02/12/1999	9.8	T
					05/21/1999	9.9	T
104 N14 E19 01AADB2	390642119472102	U	234.	4822.8	10/28/1998	11.8	T
					11/20/1998	11.6	T
					01/05/1999	11.3	T
					02/12/1999	11.0	T
					05/21/1999	10.8	T
104 N14 E19 01AADB3	390642119472103	U	165.	4822.8	10/28/1998	11.6	T
					11/20/1998	11.5	T
					01/05/1999	11.1	T
					02/12/1999	10.8	T
					05/21/1999	10.6	T
104 N14 E20 06BBDC1	390641119470801	U	14.	4807.1	11/20/1998	10.4	T
					01/05/1999	10.2	T
					02/18/1999	9.6	T
					05/21/1999	9.6	T
104 N15 E19 01CCCC1	391111119481901	U	117.	5207.5	10/28/1998	93.9	T
					01/05/1999	94.7	T
					02/12/1999	94.8	T
					05/21/1999	91.9	T
104 N15 E19 12ABCC3	391057119474002	U	210.	4958.0	10/28/1998	185.6	T
					01/05/1999	186.5	T
					02/12/1999	186.8	T
					05/21/1999	176.9	T
104 N15 E19 12ACAB1	391055119473301	U	273.	4927.0	10/28/1998	194.0	T
					01/05/1999	187.2	T
					02/12/1999	185.8	T
					05/21/1999	158.3	T
104 N15 E19 12BBAA1	391110119480701	U	107.	5147.4	10/28/1998	77.2	T
					01/05/1999	78.2	T
					02/12/1999	75.9	T
					05/21/1999	76.9	T
104 N15 E19 12BBCB1	391105119481101	U	163.	5181.5	10/28/1998	131.4	T
					01/05/1999	133.1	T
					02/12/1999	134.1	T
					05/21/1999	134.2	T
104 N15 E19 12BBCB2	391105119481102	U	210.	5181.5	10/28/1998	133.8	T
					01/05/1999	135.3	T
					02/12/1999	136.2	T
					05/21/1999	136.2	T

GROUND-WATER LEVELS

EAGLE VALLEY GROUND WATER STUDY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)		
					Date	(Feet)	Method
104 N15 E19 12CBA1	391036119481001	U	102.	5147.2	01/05/1999	100.0	T
					05/21/1999	100.0	T
104 N15 E19 12CCAA1	391030119480701	U	185.	5063.2	01/05/1999	130.6	T
					02/12/1999	131.2	T
					05/21/1999	131.6	T
104 N15 E19 12CCAA2	391030119480702	U	321.	5063.2	01/05/1999	203.4	T
					02/12/1999	204.3	T
					05/21/1999	205.7	T
104 N15 E19 13BCBC1	391002119481701	U	340.	4976.5	11/20/1998	60.3	T
					01/05/1999	60.0	T
					02/18/1999	56.0	T
					05/21/1999	54.1	T
104 N15 E19 13BCDC1	390955119481001	U	201.	4918.5	11/20/1998	21.9	T
					01/05/1999	21.8	T
					02/18/1999	16.4	T
					05/21/1999	14.7	T
104 N15 E19 13BCDC2	390955119481002	U	85.	4918.5	11/20/1998	13.5	T
					01/05/1999	13.0	T
					02/18/1999	5.2	T
					05/21/1999	5.3	T
104 N15 E19 13BDDb1	390958119475501	U	195.	4862.2	11/20/1998	21.9	T
					02/18/1999	19.6	T
					05/21/1999	20.0	T
104 N15 E19 13CAAB1	390949119475501	U	104.	4887.8	11/20/1998	20.1	T
					02/18/1999	16.9	T
					05/21/1999	17.0	T
104 N15 E19 13CAAB2	390949119475502	U	175.	4887.8	11/20/1998	17.5	T
					02/18/1999	14.4	T
					05/21/1999	13.8	T
104 N15 E19 13CADA1	390943119474801	U	108.	4889.1	10/28/1998	30.4	T
					01/05/1999	29.4	T
					02/18/1999	26.9	T
					05/21/1999	27.1	T
104 N15 E19 13CADA2	390943119474802	U	190.	4889.1	10/28/1998	33.8	T
					01/05/1999	32.9	T
					02/18/1999	30.5	T
					05/21/1999	30.6	T
104 N15 E20 02ABBB1	391201119421501	U	126.	4723.3	11/20/1998	39.0	T
					01/05/1999	39.6	T
					02/12/1999	39.9	T
					05/21/1999	40.2	T
104 N15 E20 19DDBC1	390843119462601	U	236.	4747.3	10/28/1998	59.1	T
					01/05/1999	58.4	T
					02/12/1999	58.0	T
					05/21/1999	56.5	T
104 N15 E20 19DDBC2	390843119462602	U	155.	4747.3	10/28/1998	70.5	T
					01/05/1999	69.5	T
					02/12/1999	69.0	T
					05/21/1999	68.56	T
104 N15 E20 19DDCB1	390839119462701	U	149.	4758.1	10/28/1998	80.8	T
					01/05/1999	79.9	T
					02/12/1999	79.5	T
					05/21/1999	78.8	T
104 N15 E20 19DDDB1	390841119461701	U	130.	4722.5	10/28/1998	45.99	S
					01/05/1999	45.72	S
					02/12/1999	45.31	S
					05/21/1999	44.61	S
104 N16 E20 33ACCC1	391231119442901	U	238.	4803.9	11/20/1998	108.4	T
					01/05/1999	108.1	T
					02/12/1999	108.0	T
					05/21/1999	107.6	T

GROUND-WATER LEVELS

EAGLE VALLEY GROUND WATER STUDY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)		
					Date	(Feet)	Method
104 N16 E20 33ACCC2	391231119442902	U	170.	4803.9	11/20/1998	106.42	T
					01/05/1999	106.2	T
					02/12/1999	106.1	R
					05/21/1999	105.7	T
104 N16 E20 33ACCC3	391231119442903	U	130.	4803.9	11/20/1998	108.37	T
					01/05/1999	106.1	T
					02/12/1999	106.0	T
					05/21/1999	105.6	T

GROUND-WATER LEVELS

DAYTON VALLEY

Water-level data were collected in the Dayton Valley Hydrographic Area as part of a cooperative study with the Carson Water Subconservancy District. The purpose of the study is to determine the hydrologic response to seasonal recharge and to continued development in the area.

WATER-USE: H, domestic; I, irrigation; N, industrial; P, public supply; S, stock; U, unused; Z, other.

WATER-LEVEL STATUS: X, water-level affected by stage in nearby surface-water site.

WATER-LEVEL METHOD: S, steel tape; T, electric tape; Z, reported by Nevada Division of Water Resources.

The following sites are shown in figure 21.

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
103 N15 E20 01AACD1	391129119404801	P	256.	4898.	11-06-1998	216.8		T
					12-11-1998	216.6		T
					01-13-1999	216.3		T
					02-17-1999	216.1		T
					03-23-1999	215.7		T
					05-07-1999	215.3		T
					06-24-1999	215.0		T
					08-03-1999	216.1		T
					09-15-1999	214.6		T
103 N15 E20 10DDCA1	391024119425801	U	30.	4610.6	11-05-1998	17.1		T
					12-10-1998	17.2		T
					01-13-1999	17.2		T
					02-17-1999	17.1		T
					03-23-1999	17.8		T
					05-07-1999	17.7		T
					06-24-1999	17.3		T
					08-03-1999	18.8		T
					09-15-1999	18.6		T
103 N15 E20 15DBBA1	390952119431801	H	140.	4648.2	11-05-1998	43.8		T
					12-10-1998	43.8		T
					01-13-1999	43.7		T
					02-17-1999	42.9		T
					03-23-1999	43.2		T
					05-07-1999	43.3		T
					06-24-1999	44.1		T
					08-03-1999	45.2		T
					09-15-1999	45.2		T
103 N15 E20 15DCCD1	390927119431601	Z	500.	4719.2	11-05-1998	102.7		T
					12-10-1998	102.8		T
					01-13-1999	102.9		T
					02-17-1999	102.6		T
					03-23-1999	102.4		T
					05-07-1999	102.7		T
					06-24-1999	103.2		T
					08-03-1999	103.7		T
					09-15-1999	103.8		T
103 N16 E21 12ADAB1	391610119335901	U	20.	4320.	11-06-1998	10.6	X	T
					12-11-1998	11.9	X	T
					01-14-1999	11.7	X	T
					02-17-1999	11.9		T
					03-23-1999	12.2	X	T
					05-07-1999	11.8		T
					06-24-1999	10.1		T
					08-03-1999	9.3		T
					09-15-1999	9.1		T
103 N16 E21 23ACDA1	391425119352501	H	75.	4360.	11-06-1998	20.03		S
					12-11-1998	18.88		S
					01-13-1999	18.65		S
					02-17-1999	17.62		S
					03-23-1999	20.95		S
					05-07-1999	18.36		S
					06-24-1999	19.84		S
					08-04-1999	21.63		S
					09-15-1999	19.98		S

GROUND-WATER LEVELS
DAYTON VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
103 N16 E21 23CCBA1	391401119360101	S	416.	4626.6	11-06-1998	275.5	T	
					12-11-1998	276.3	T	
					01-13-1999	276.3	T	
					02-17-1999	275.9	T	
					03-23-1999	275.8	T	
					05-07-1999	275.2	T	
					08-03-1999	274.9	T	
					09-15-1999	275.7	T	
103 N16 E21 24DDBC1	391354119343701	P	135.	4440.	11-06-1998	77.24	S	
					12-11-1998	73.02	S	
					01-13-1999	76.02	S	
					02-17-1999	69.94	S	
					03-23-1999	71.88	S	
					05-07-1999	73.36	S	
					08-03-1999	81.32	S	
					09-15-1999	81.76	S	
103 N16 E21 24DDBC2	391358119340801	N	162.	4432.0	11-06-1998	108.6	T	
					12-11-1998	108.8	T	
					01-13-1999	108.0	T	
					02-17-1999	105.4	T	
					03-23-1999	107.1	T	
					05-07-1999	108.4	T	
					06-24-1999	115.0	T	
					08-03-1999	116.9	T	
103 N16 E21 27DBAA1	391319119362301	U	478.	4409.8	09-15-1999	115.1	T	
					11-06-1998	22.31	S	
					12-11-1998	24.57	S	
					01-13-1999	26.42	S	
					02-17-1999	27.57	S	
					03-23-1999	27.61	S	
					05-07-1999	27.62	S	
					06-24-1999	25.50	S	
103 N16 E21 29BCCC1	391324119392501	N	222.	4835.	08-03-1999	23.60	S	
					09-15-1999	23.73	S	
					11-06-1998	65.2	T	
					12-11-1998	65.0	T	
					01-13-1999	64.7	T	
					02-17-1999	64.3	T	
					03-23-1999	64.0	T	
					05-07-1999	63.6	T	
103 N16 E21 29DBBA1	391322119385101	H		4768.6	06-24-1999	63.1	T	
					08-03-1999	63.0	T	
					09-15-1999	62.7	T	
					12-11-1998	35.7	T	
					01-13-1999	35.6	T	
					02-17-1999	35.4	T	
					03-23-1999	35.1	T	
					05-07-1999	34.9	T	
103 N16 E21 30CDBA1	391308119401201	U	113.	4952.	08-03-1999	35.1	T	
					09-15-1999	35.1	T	
					11-06-1998	46.97	S	
					12-11-1998	45.92	S	
					01-13-1999	46.01	S	
					02-17-1999	45.84	S	
					03-23-1999	45.74	S	
					05-07-1999	45.56	S	
					07-13-1999	45.50	S	
					08-03-1999	47.32	S	
					09-15-1999	47.83	S	

GROUND-WATER LEVELS

DAYTON VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
103 N16 E22 07DDCD1	391535119325701	I	129.	4357.	11-06-1998	53.59	S	
					12-11-1998	53.71	S	
					01-13-1999	53.84	S	
					02-17-1999	53.72	S	
					03-23-1999	55.32	S	
					05-07-1999	53.27	S	
					06-24-1999	56.60	S	
					08-04-1999	56.41	S	
					09-15-1999	53.80	S	
103 N16 E22 09BCBC2	391608119313601	I	600.	4345.3	11-06-1998	56.68	S	
					12-11-1998	56.73	S	
					01-13-1999	56.52	S	
					02-17-1999	56.11	S	
					03-23-1999	56.06	S	
					05-07-1999	56.07	S	
					06-24-1999	56.32	S	
					08-04-1999	57.33	S	
					09-15-1999	58.45	S	
103 N16 E22 09BDAD1	391608119310401	H	122.	4344.4	11-06-1998	58.5	T	
					12-11-1998	58.3	T	
					01-13-1999	58.3	T	
					02-17-1999	58.0	T	
					03-23-1999	57.9	T	
					05-07-1999	57.9	T	
					08-03-1999	58.7	T	
					09-15-1999	59.7	T	
103 N16 E22 18DDDD1	391429119325401	I	273.	4365.	11-06-1998	66.53	S	
					12-11-1998	65.16	S	
					01-13-1999	66.84	S	
					02-17-1999	65.06	S	
					03-23-1999	65.17	S	
					05-07-1999	68.94	S	
					08-03-1999	71.98	S	
					09-15-1999	68.83	S	
103 N17 E22 28BACA1	391853119311201	H	150.	4393.6	11-06-1998	106.9	T	
					12-11-1998	106.6	T	
					01-13-1999	106.5	T	
					02-17-1999	106.3	T	
					03-23-1999	106.1	T	
					05-07-1999	106.0	T	
					06-24-1999	106.2	T	
					08-04-1999	106.5	T	
					09-15-1999	107.0	T	
103 N17 E22 30DBCD1	391824119331001	H	230.	4442.9	11-06-1998	152.8	T	
					12-11-1998	152.7	T	
					01-13-1999	152.6	T	
					02-17-1999	152.2	T	
					03-23-1999	151.8	T	
					05-07-1999	151.7	T	
					08-04-1999	152.8	T	
					09-15-1999	153.8	T	
103 N17 E22 32CADA1	391733119321001	U	101.	4346.5	11-06-1998	54.94	S	
					12-11-1998	54.89	S	
					01-13-1999	54.83	S	
					02-17-1999	54.65	S	
					03-23-1999	54.25	S	
					05-07-1999	54.12	S	
					06-24-1999	54.18	S	
					08-04-1999	54.67	S	
					09-15-1999	55.30	S	

GROUND-WATER LEVELS
DAYTON VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
103 N17 E23 01DDBA1	392129119205301	U	276.	4455.	11-06-1998	235.7	T	
					12-11-1998	235.8	T	
					01-13-1999	236.0	T	
					02-17-1999	235.9	T	
					03-23-1999	235.9	T	
					05-07-1999	235.9	T	
					06-24-1999	235.9	T	
					08-04-1999	236.0	T	
					09-17-1999	236.1	T	
103 N17 E23 07DDDD1	392047119260501	U	386.	4324.0	11-06-1998	94.3	T	
					12-11-1998	93.8	T	
					01-13-1999	93.4	T	
					02-17-1999	93.0	T	
					03-23-1999	92.7	T	
					05-07-1999	92.8	T	
					06-24-1999	93.7	T	
					08-04-1999	94.8	T	
					09-17-1999	95.3	T	
103 N17 E23 09CCDB1	392050119244701	U	82.	4270.83	11-06-1998	45.3	T	
					12-11-1998	45.4	T	
					01-13-1999	45.4	T	
					02-17-1999	45.3	T	
					03-23-1999	45.3	T	
					05-07-1999	45.3	T	
					06-24-1999	45.4	T	
					08-04-1999	45.5	T	
					09-17-1999	45.7	T	
103 N17 E23 09DAAA1	392110119235001	U	84.	4281.70	11-06-1998	62.3	T	
					12-11-1998	61.8	T	
					01-13-1999	61.7	T	
					02-17-1999	61.4	T	
					03-23-1999	61.4	T	
					05-07-1999	61.8	T	
					06-24-1999	63.0	T	
					08-04-1999	63.9	T	
					09-17-1999	64.3	T	
104 N15 E20 02CADC1	391134119422501	U	338.	4639.2	11-05-1998	10.4	T	
					12-10-1998	10.5	T	
					01-13-1999	10.7	T	
					02-17-1999	10.2	T	
					03-23-1999	10.1	T	
					05-14-1999	10.2	T	
					06-24-1999	10.8	T	
					08-03-1999	11.2	T	
					09-15-1999	11.0	T	
104 N15 E20 02CBCA1	391128119424101	U	51.	4639.8	11-05-1998	4.9	T	
					12-10-1998	4.6	T	
					01-13-1999	3.8	T	
					02-17-1999	.4	T	
					03-23-1999	.4	T	
					05-14-1999	2.8	T	
					06-24-1999	4.3	T	
					08-03-1999	5.5	T	
					09-15-1999	5.8	T	
104 N15 E20 02CBCA2	391128119424102	U	25.	4640.2	11-05-1998	6.2	T	
					12-10-1998	5.6	T	
					01-13-1999	5.1	T	
					02-17-1999	.9	T	
					03-23-1999	1.3	T	
					05-14-1999	3.7	T	
					06-24-1999	5.2	T	
					08-03-1999	6.4	T	
					09-15-1999	6.8	T	

GROUND-WATER LEVELS

DAYTON VALLEY--Continued

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
104 N15 E20 11BABC1	391105119422801	U	305.	4602.	11-05-1998	27.05		S
					12-10-1998	26.56		S
					01-13-1999	26.29		S
					02-17-1999	25.31		S
					03-23-1999	25.44		S
					05-14-1999	26.00		S
					06-24-1999	30.00		S
					08-03-1999	34.19		S
					09-15-1999	31.80		S
104 N15 E20 15BDBA1	391004119433301	U	105.	4620.	10-05-1998	3.89		Z
					11-05-1998	3.6		T
					12-10-1998	4.0		T
					01-04-1999	4.14		Z
					01-13-1999	4.5		T
					02-17-1999	4.4		T
					03-23-1999	4.6		T
					04-09-1999	4.76		Z
					05-07-1999	5.1		T
					06-24-1999	4.8		T
					07-08-1999	5.88		Z
					08-03-1999	5.9		T
					09-15-1999	5.6		T

GROUND-WATER LEVELS

NEWLANDS SHALLOW AQUIFER MONITORING

Water-level data were collected in the Fallon area as part of a cooperative study with Churchill County. The purpose of the study is to provide data for future studies in the area and determine the hydrologic response to changes in seasonal recharge and to changes in water use.

WATER USE: H, domestic; I, irrigation; S, stock; U, unused.

WATER-LEVEL STATUS: D, dry; W, well destroyed.

WATER-LEVEL METHOD: S, steel tape; T, electric tape.

The following sites are shown in figure 21.

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N16 E29 01ABBB1	391706118403801	U	30.	3907.	09-14-1999		W	
101 N16 E30 09CDAA1	391532118371601	U	27.	3943.	01-28-1999	21.4		T
					04-06-1999	21.3		T
					06-17-1999	21.2		T
					09-14-1999	21.72		S
101 N17 E28 13DAA 1	392008118465501	U	17.	3918.04	11-09-1998	8.69		S
					12-01-1998	8.76		S
					01-06-1999	9.21		S
					02-11-1999	8.81		S
					03-26-1999	7.45		S
					04-20-1999	8.25		S
					06-17-1999	7.74		S
					07-13-1999	7.69		S
101 N17 E29 12BBBB1	392132118411001	U	50.	3910.27	01-28-1999	.89		S
					09-14-1999	1.84		S
101 N17 E29 12BBBB4	392132118411004	U	15.	3910.16	01-28-1999	.65		S
					09-14-1999	2.23		S
101 N17 E29 19DDCC1	391853118455801	U	23.	3908.	09-14-1999	3.20		S
101 N17 E30 20CDCC1	391857118383801	U	24.	3913.	01-28-1999	8.5		S
					09-14-1999	8.41		T
101 N18 E28 02BABB1	392735118484501	U	12.	3970.	01-27-1999	7.8		T
					03-16-1999	7.2		T
					06-15-1999	6.7		T
					09-14-1999	6.13		S
101 N18 E28 12ABAC1	392642118470901	U	15.	3960.	10-08-1998	7.1		T
					11-09-1998	7.8		T
					12-01-1998	7.9		T
					01-06-1999	8.5		T
					02-11-1999	8.7		T
					03-16-1999	8.5		T
					06-15-1999	7.1		T
101 N18 E29 21BCCB1	392439118443401	S	30.	3934.	10-08-1998	7.1		T
					11-09-1998	7.9		T
					12-01-1998	8.3		T
					01-06-1999	8.6		T
					02-11-1999	8.7		T
					03-26-1999	8.4		T
					04-20-1999	7.8		T
					06-17-1999	7.5		T
					07-13-1999	7.1		T
					09-13-1999	6.90		S

GROUND-WATER LEVELS
NEWLANDS SHALLOW AQUIFER MONITORING

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N18 E29 27CDAD1	392327118425401	U	13.	3920.	10-08-1998	7.5		T
					11-09-1998	7.3		T
					12-01-1998	7.4		T
					01-06-1999	7.5		T
					02-11-1999	7.4		T
					03-26-1999	7.4		T
					04-20-1999	7.4		T
					06-17-1999	7.0		T
					07-13-1999	7.0		T
					09-13-1999	7.38		S
101 N18 E30 07CDDC1	392558118393701	U	24.	3923.	01-18-1999	7.1		T
					04-06-1999	6.6		T
					06-17-1999	6.8		T
					09-14-1999	7.21		S
101 N18 E30 09CDCC1	392554118373001	U	111.	3931.	01-28-1999	5.5		T
					04-06-1999	5.0		T
					06-17-1999	5.5		T
					09-14-1999	5.59		S
101 N18 E30 30ABBA1	392407118392301	U	24.	3925.	01-28-1999	11.0		T
					04-06-1999	10.9		T
					06-17-1999	11.1		T
					09-14-1999	11.61		S
101 N18 E30 30DDDC1	392316118390001	U	30.	3926.	09-14-1999	9.03		S
101 N19 E27 08CCCB1	393108118590801	H	69.	4081.	09-15-1999	54.16		S
101 N19 E27 09CCCC1	393106118580301	U	21.	4019.	01-27-1999	7.9		T
					03-01-1999	7.8		T
					06-17-1999	8.3		T
					09-15-1999	9.44		S
101 N19 E27 11DCAC1	393120118545501	U	24.	4020.56	01-27-1999	18.2		T
					03-01-1999	18.9		T
					06-17-1999	18.4		T
					09-15-1999	19.27		S
101 N19 E27 13CCB 1	393023118544101	U	143.	4013.58	10-08-1998	25.7		T
					11-09-1998	24.5		T
					12-02-1998	24.2		T
					01-27-1999	24.2		T
					02-11-1999	24.5		T
					03-26-1999	24.5		T
					04-20-1999	24.5		T
					06-17-1999	25.0		T
					07-13-1999	25.1		T
					08-12-1999	25.1		T
					09-13-1999	25.34		S
101 N19 E27 13CCBB3	393023118544103	U	28.	4013.6	10-08-1998	9.1		T
					11-09-1998	9.5		T
					12-02-1998	9.8		T
					01-27-1999	10.5		T
					02-11-1999	10.9		T
					03-26-1999	11.5		T
					04-20-1999	12.0		T
					06-17-1999	9.4		T
					07-13-1999	8.7		T
					08-12-1999	8.5		T
					09-15-1999	9.08		S

GROUND-WATER LEVELS
NEWLANDS SHALLOW AQUIFER MONITORING

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N19 E27 15ADDA1	393043118555101	U	21.	4021.73	01-27-1999	16.8		T
					05-04-1999	16.4		T
					06-17-1999	16.5		T
101 N19 E27 22DBAB1	392948118561101	U	13.	4022.	01-27-1999	11.3		T
					03-01-1999	11.7		T
					09-15-1999	10.14		S
101 N19 E28 07BCBB1	393142118533201	U	26.	4015.22	09-14-1999	21.15		S
101 N19 E28 11ABB 1	393155118483001	U	97.	3982.11	01-26-1999	27.4		T
					05-04-1999	27.5		T
					06-16-1999	27.8		T
					09-15-1999	28.42		S
101 N19 E28 11ABB 2	393155118483002	U	35.	3982.11	01-26-1999	29.2		T
					03-16-1999	29.1		T
					05-04-1999	29.1		T
					06-16-1999	29.5		T
					09-13-1999	30.17		S
101 N19 E28 17DAAC1	393038118512201	U	14.	4001.52	10-08-1998	8.3		T
					11-09-1998	7.1		T
					01-06-1999	7.5		T
					04-20-1999	8.0		T
					05-07-1999	7.9		T
					06-17-1999	7.4		T
					07-13-1999	8.0		T
					09-14-1999	6.96		S
101 N19 E28 19CCCB1	392926118533001	U	18.	4000.	10-08-1998	6.8		T
					11-09-1998	6.7		T
					12-02-1998	6.9		T
					01-06-1999	7.2		T
					02-11-1999	7.4		T
					03-26-1999	7.7		T
					04-20-1999	7.2		T
					06-17-1999	7.0		T
					07-13-1999	6.5		T
					08-12-1999	6.2		T
101 N19 E28 23DCDB1	392925118482001	H	30.	3975.	09-13-1999	6.53		S
					10-08-1998	13.2		T
					11-09-1998	13.4		T
					01-06-1999	13.8		T
					03-16-1999	15.0		T
					06-15-1999	13.6		T
101 N19 E28 32BAAB1	392829118520001	U	13.	3996.	09-14-1999	13.35		S
					10-08-1998	7.8		T
					11-09-1998	8.1		T
					12-01-1998	8.4		T
					12-09-1998	8.6		T
					01-06-1999	9.1		T
					02-11-1999	9.6		T
					03-26-1999	7.7		T
					04-20-1999	7.2		T
					06-17-1999	7.2		T
					07-13-1999	7.3		T
					08-12-1999	7.5		T
					09-13-1999	7.60		S

GROUND-WATER LEVELS
NEWLANDS SHALLOW AQUIFER MONITORING

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N19 E28 34BCAA1	392817118495501	U	13.	3980.	01-27-1999	5.3		T
					03-02-1999	5.6		T
					03-16-1999	5.5		T
					06-15-1999	5.0		T
					09-14-1999	4.07		S
101 N19 E29 02BABB1	393252118415901	I	21.	3927.38	01-26-1999	9.4		T
					03-16-1999	9.8		T
					06-16-1999	8.3		T
					09-13-1999	8.17		S
101 N19 E29 14ACB 2	393049118413501	U	12.	3931.36	01-26-1999	9.0		T
					03-16-1999	9.3		T
					06-16-1999	8.6		T
					09-13-1999	9.05		S
101 N19 E29 23CCDC1	392924118420901	I	19.	3937.	01-26-1999	7.2		T
					03-16-1999	7.5		T
					06-16-1999	6.5		T
					09-13-1999	6.06		S
101 N19 E29 24ABDD1	393003118402001	U	12.	3920.	10-08-1998	4.4		T
					11-09-1998	4.8		T
					12-11-1998	4.7		T
					01-06-1999	4.8		T
					02-16-1999	4.8		T
					06-16-1999	4.8		T
					09-13-1999	4.71		S
101 N19 E29 32BCBB1	392816118453901	H	21.	3955.	01-27-1999	8.96		S
					02-11-1999	8.2		T
					03-16-1999	8.0		T
					06-15-1999	7.5		T
					09-14-1999	7.50		S
101 N19 E29 35DAA 1	392759118411601	U	10.	3935.59	01-26-1999	6.6		T
					03-16-1999	7.0		T
					06-16-1999	5.6		T
					09-13-1999	5.80		S
101 N19 E30 13ACAA1	393052118333501	U	12.	3900.	10-08-1998	3.3		T
					11-09-1998	3.9		T
					12-01-1998	4.5		T
					01-06-1999	4.9		T
					02-11-1999	5.2		T
					03-26-1999	5.6		T
					04-20-1999	3.8		T
					05-07-1999	4.3		T
					06-17-1999	3.6		T
					07-13-1999	3.2		T
					09-13-1999	3.45		S
101 N19 E30 23DBDD2	392938118344301	U	11.	3908.79	10-08-1998	4.0		T
					11-09-1998	3.8		T
					12-01-1998	4.3		T
					01-06-1999	4.6		T
					02-11-1999	4.7		T
					03-26-1999	4.0		T
					04-20-1999	4.0		T
					05-07-1999	4.0		T
					06-17-1999	4.2		T
					07-13-1999	4.1		T
					09-13-1999	2.27		S

GROUND-WATER LEVELS
NEWLANDS SHALLOW AQUIFER MONITORING

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N19 E30 34BAA 1	392828118361201	U	25.	3914.19	10-08-1998	8.46		S
					11-09-1998	8.54		S
					12-01-1998	8.59		S
					01-06-1999	8.59		S
					02-11-1999	8.66		S
					03-26-1999	8.55		S
					04-20-1999	8.48		S
					06-17-1999	8.35		S
					07-13-1999	8.38		S
					08-12-1999	8.50		S
					09-13-1999	8.62		S
101 N19 E30 34BAA 2	392828118361202	U	13.	3914.18	10-08-1998	8.45		S
					11-09-1998	8.53		S
					12-01-1998	8.56		S
					01-06-1999	8.57		S
					02-11-1999	8.63		S
					03-26-1999	8.52		S
					04-20-1999	8.43		S
					06-17-1999	8.34		S
					07-13-1999	8.40		S
					08-12-1999	8.46		S
					09-13-1999	8.59		S
101 N20 E28 21DDDC1	393442118501801	U	67.	3956.68	01-27-1999	4.0		T
					05-04-1999	3.6		T
					06-17-1999	3.6		T
					09-15-1999	4.17		S
101 N20 E28 21DDDC2	393442118501802	U	9.	3956.68	01-27-1999	5.0		T
					05-04-1999	4.7		T
					06-17-1999	4.6		T
					09-15-1999	5.32		S
101 N20 E28 22BCA 1	393515118495601	U	87.	3974.36	01-27-1999	30.5		T
					05-04-1999	30.3		T
					06-17-1999	30.3		T
					09-15-1999	30.89		S
101 N20 E28 22BCA 2	393515118495602	U	35.	3974.36	01-27-1999	31.3		T
					05-04-1999	31.1		T
					06-17-1999	31.1		T
					09-15-1999	31.38		S
101 N20 E28 24BDD 1	393506118473001	U	131.	3962.50	01-26-1999	28.9		T
					03-16-1999	28.7		T
					05-04-1999	28.6		T
					06-16-1999	29.1		T
					09-13-1999	29.26		S
101 N20 E28 24BDD 2	393506118473002				01-26-1999		D	
					05-04-1999		D	
					06-16-1999		D	
					09-15-1999		D	
101 N20 E28 32AAD 1	393335118512701	U	32.	3977.04	01-27-1999	9.64		S
					05-04-1999	8.00		S
					06-17-1999	8.27		S
					09-15-1999	8.54		S

GROUND-WATER LEVELS
NEWLANDS SHALLOW AQUIFER MONITORING

Local Well No	Site Identification	Water Use	Well Depth (Feet)	Elevation (Feet) Above Sea Level	Water Level (Below Land Surface)			
					Date	(Feet)	Status	Method
101 N20 E28 32AADA2	393335118512702	U	22.	3977.04	01-27-1999	8.55		S
					05-04-1999	7.68		S
					06-17-1999	7.80		S
					09-15-1999	8.30		S
101 N20 E28 32CAD 1	393309118515901	U	128.	3990.37	09-15-1999	19.15		S
101 N20 E29 22CBAC1	393458118431101	U	12.	3914.02	11-09-1998	8.3		T
					12-02-1998	8.2		T
					01-06-1999	8.0		T
					03-16-1999	7.7		T
					06-16-1999	6.4		T
					08-12-1999	5.1		T
					09-13-1999	8.34		S
101 N21 E28 24BBA 1	394046118472601	U	109.	3903.36	01-26-1999	8.1		T
					05-04-1999	8.1		T
					06-17-1999	7.9		T
					09-15-1999	8.43		S
101 N21 E28 24BBA 3	394046118472603	U	13.	3903.36	01-26-1999	9.3		T
					05-04-1999	9.2		T
					06-17-1999	9.3		T
					09-15-1999	9.33		S
101 N21 E28 25ADD 1	393854118463801	U	150.	3913.97	01-26-1999	13.8		T
					05-04-1999	13.8		T
					06-17-1999	13.4		T
					09-15-1999	14.20		S

QUALITY OF GROUND WATER
NEWLANDS SHALLOW AQUIFER MONITORING

Water-quality measurements in the following table were made in cooperation with Churchill County, Nevada to monitor changes in water-quality caused by changes in land use. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figures 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	LOCAL WELL NUMBER	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
392327118425401	101 N18 E29 27CDAD1	12-10-98	1200	3920	--	13	1250
		09-21-99	1245		7.3		1400
392829118520001	101 N19 E28 32BAAB1	12-09-98	1200	3996	8.4	13	225
		09-21-99	1015		3.5		240
393003118402001	101 N19 E29 24ABDD1	12-11-98	1140	3920	--	12	1490
		09-22-99	1130		4.4		1610
393052118333501	101 N19 E30 13ACAA1	12-15-98	1315	3900	3.4	12	1430
		09-23-99	1130		2.8		1680
393458118431101	101 N20 E29 22CBAC1	12-17-98	1330	3914	--	12	14790
		09-22-99	1330		8.0		13990

DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)
12-10-98	8.1	3.0	14.0	673	0.4	4	1.6	2.4	290	34
09-21-99	7.8	--	18.5	665	0.6	7	1.6	2.5	300	34
12-09-98	7.1	--	15.0	670	0.6	7	17	4.7	19	1
09-21-99	6.8	--	19.0	663	1.0	12	19	5.1	20	1
12-11-98	7.7	4.5	12.5	670	0.4	4	32	9.6	290	11
09-22-99	7.6	19.0	14.5	665	0.4	4	36	11	310	12
12-15-98	7.0	6.5	14.0	675	0.4	4	80	24	250	6
09-23-99	7.0	23.5	16.5	663	1.5	18	96	29	240	6
12-17-98	7.3	14.0	15.0	665	3.8	46	350	260	4200	41
09-22-99	7.4	25.5	22.0	--	--	--	280	220	3800	41

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)
12-10-98	7.7	397	--	330	99	191	1.5	26	816	825
09-21-99	8.6	449	--	370	70	148	2.0	27	814	786
12-09-98	3.3	89	1	73	23	6.3	.15	21	149	141
09-21-99	3.8	98	--	80	25	6.2	.25	23	154	152
12-11-98	15	580	1	480	250	66	.66	43	1030	994
09-22-99	16	590	--	480	260	64	.74	44	1080	1030
12-15-98	12	640	1	520	160	55	1.2	38	1000	936
09-23-99	10	690	--	570	210	78	1.1	44	1100	1060
12-17-98	48	940	--	770	5180	2000	1.4	73	11800	12560
09-22-99	51	1070	--	880	4770	1900	1.8	77	11230	11630

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS P) (00623)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
12-10-98	<.01	<.05	.04	.47	2.7	2.8	223	50	23
09-21-99	<.01	<.05	<.02	.39	.08	2.6	249	30	19
12-09-98	<.01	.21	<.02	<.1	.15	.16	12	<10	<3
09-21-99	<.01	.20	<.02	E.094	.17	.16	13	<10	<2
12-11-98	.03	.95	.02	.55	.17	.20	60	<10	46
09-22-99	.02	.40	<.02	.50	.19	.22	69	<10	93
12-15-98	<.01	<.05	.11	.96	.60	.46	62	780	600
09-23-99	<.01	<.05	.48	1.2	.73	.76	73	760	760
12-17-98	<.01	.05	.29	2.2	.38	.60	850	<200	2800
09-22-99	<.01	<.05	.21	1.1	.21	.65	856	<10	2200

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

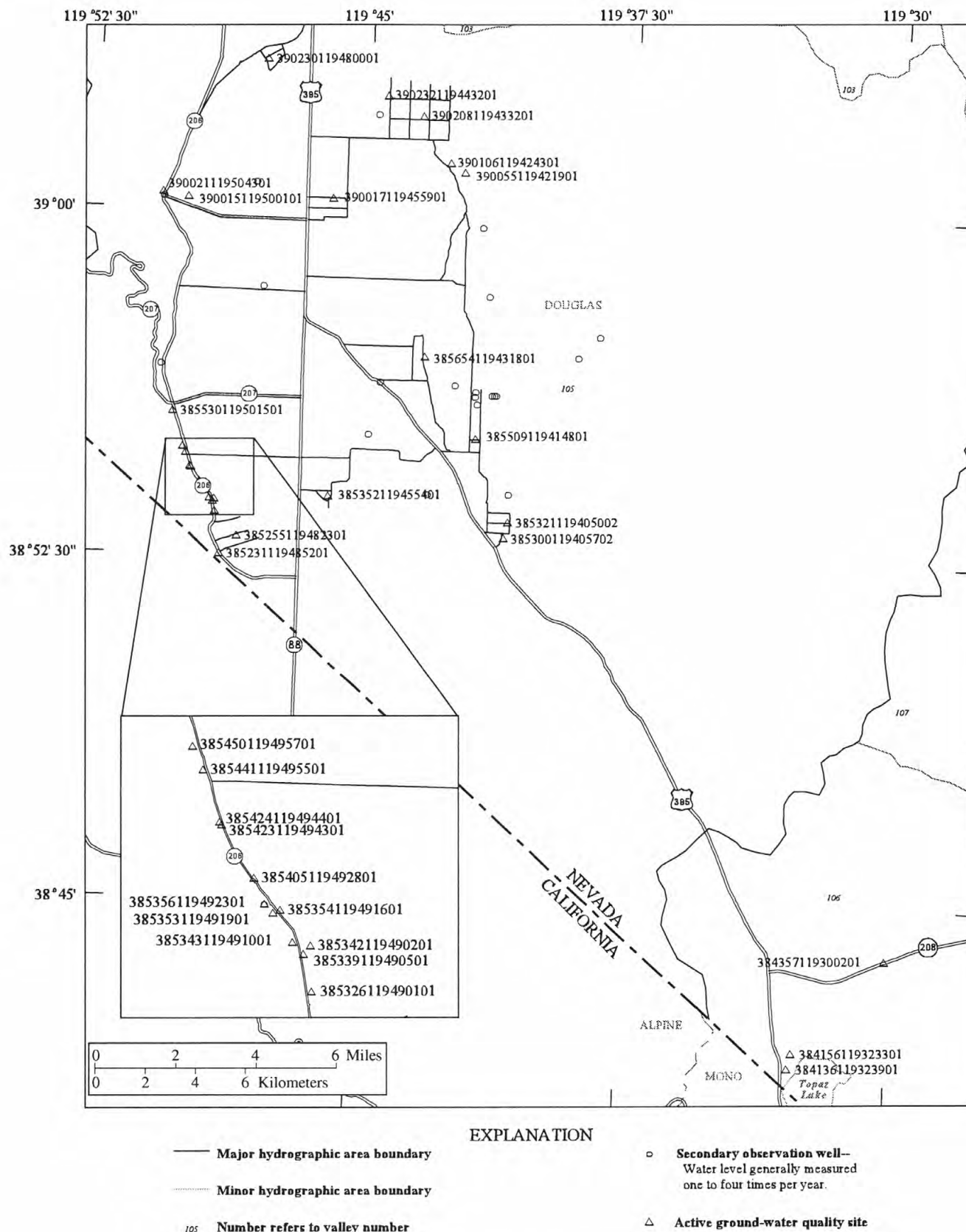


Figure 30 . Ground-water sites, Douglas County.

QUALITY OF GROUND WATER

DOUGLAS COUNTY

Water-quality measurements in the following table were made in cooperation with Douglas County, Nevada to establish background information to determine if changes in water quantity and quality occur. Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figures 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	LOCAL WELL NUMBER	DATE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)
390542119472001	104 N14 E19 12ADAB1	08-24-99	1030	78.8	155	4909	7.9	270
385530119501501	105 N12 E19 03CDCB1	09-07-99	1105	--	112	4790	--	112
385450119495701	105 N12 E19 10DCBB1	09-07-99	1215	41.5	--	4800	--	78
385441119495501	105 N12 E19 10DCDB1	09-07-99	1315	46.4	107	4800	--	85
385354119491601	105 N12 E19 14CCAC1	09-13-99	1310	--	--	4800	6.5	66
385353119491901	105 N12 E19 14CCAC2	09-13-99	1410	--	--	4810	6.1	78
385356119492301	105 N12 E19 14CCBA1	09-15-99	1405	69.2	--	4820	6.4	68
385424119494401	105 N12 E19 15ADBB1	09-09-99	1045	83.5	183	4810	7.2	77
385423119494301	105 N12 E19 15ADBB2	09-09-99	1130	--	--	4810	6.6	86
385405119492801	105 N12 E19 15DADA1	09-09-99	1220	--	--	4810	6.3	94
385342119490201	105 N12 E19 23BAAC1	09-13-99	1150	--	--	4770	6.4	173
385343119491001	105 N12 E19 23BABB1	09-13-99	1505	46.5	--	4800	6.5	98
385339119490501	105 N12 E19 23BACA1	09-13-99	1055	26.6	--	4780	6.1	158
385326119490101	105 N12 E19 23BDD1	08-26-99	1430	33.8	112	4760	8.2	83
385255119482301	105 N12 E19 23DD1	08-26-99	1245	--	141	4730	7.5	120
385231119485201	105 N12 E19 26ACCB1	09-13-99	0920	--	--	4770	9.2	173
385509119414801	105 N12 E20 11ADD 1	08-25-99	1435	68.4	125	4900	7.6	345
385352119455401	105 N12 E20 17CCDA1	08-25-99	1305	24.1	91	4763	6.8	183
385321119405002	105 N12 E20 24ADCC2	09-14-99	1400	100.5	145	4980	7.8	551
385300119405702	105 N12 E20 24DCDB2	07-01-99	1450	114.0	180	4987	7.4	757
390021119504301	105 N13 E19 09ADCA1	08-24-99	1310	--	180	4810	6.9	307
390015119500101	105 N13 E19 10DBB 1	09-16-99	1350	--	115	4680	7.3	226
390106119424301	105 N13 E20 02CBB 1	09-15-99	1105	--	176	4865	7.9	350
390055119421901	105 N13 E20 02CDAA1	07-01-99	1300	124.6	--	4900	7.9	373
		09-15-99	1210	118.8	--	4900	8.0	369
390017119455901	105 N13 E20 08CBAB1	08-25-99	1100	--	332	4690	8.1	192
385654119431801	105 N13 E20 34ACC 1	08-26-99	1130	--	80	4795	7.5	489
390457119491301	105 N14 E19 14BBD 1	08-24-99	1115	--	100	5040	8.4	130
390230119480001	105 N14 E19 25BA 1	06-24-99	1205	--	239	4680	7.1	605
		09-15-99	0940	--	239	4680	7.2	599
390446119451401	105 N14 E20 17ADCA1	06-24-99	1030	2.6	27	4638	6.8	4170
		09-16-99	1105	5.2	27	4638	7.0	4200
390232119443201	105 N14 E20 28CDC 1	06-22-99	1450	--	88	4700	7.5	623
		09-16-99	0950	--	88	4700	7.6	604
390208119433201	105 N14 E20 34BDBD1	06-22-99	1345	30.4	100	4753	7.3	461
		09-16-99	1235	32.5	100	4753	7.3	462
384357119300201	106 N10 E22 15ADBB1	06-22-99	1025	--	--	5115	7.5	651
		09-14-99	1240	--	--	5115	7.4	640
384156119323301	106 N10 E22 29CADA2	09-14-99	1130	--	183	5067	7.3	456
384136119323901	106 N10 E22 32BAAB2	06-22-99	1155	79.9	105	5075	7.0	354
		09-14-99	1030	93.2	105	5075	6.9	393

QUALITY OF GROUND WATER

DOUGLAS COUNTY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	DATE	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
390542119472001	08-24-99	15.5	21	3.8	1.1	1	27	8.3	.35
385530119501501	09-07-99	14.0	--	--	--	--	--	1.5	.91
385450119495701	09-07-99	11.0	--	--	--	--	--	.86	.22
385441119495501	09-07-99	12.0	--	--	--	--	--	1.4	.15
385354119491601	09-13-99	10.0	--	--	--	--	--	.97	.13
385353119491901	09-13-99	10.0	--	--	--	--	--	1.0	.17
385356119492301	09-15-99	11.0	--	--	--	--	--	.50	.17
385424119494401	09-09-99	13.0	--	--	--	--	--	.58	<.10
385423119494301	09-09-99	13.0	--	--	--	--	--	1.0	<.10
385405119492801	09-09-99	12.5	--	--	--	--	--	1.2	.10
385342119490201	09-13-99	12.0	--	--	--	--	--	8.2	<.10
385343119491001	09-13-99	15.5	--	--	--	--	--	3.2	.11
385339119490501	09-13-99	10.5	--	--	--	--	--	7.0	.10
385326119490101	08-26-99	17.0	--	--	--	--	--	1.0	.52
385255119482301	08-26-99	18.0	7.5	.66	1.5	2	16	1.5	.76
385231119485201	09-13-99	31.0	--	--	--	--	--	2.8	1.2
385509119414801	08-25-99	15.0	39	7.6	2.3	.7	18	10	.12
385352119455401	08-25-99	15.0	15	6.7	2.1	.5	8.8	2.3	<.10
385321119405002	09-14-99	17.0	71	13	2.6	.7	25	15	<.10
385300119405702	07-01-99	17.5	78	23	5.3	1	37	51	<.10
390021119504301	08-24-99	15.0	40	5.6	2.8	.5	14	1.2	.13
390015119500101	09-16-99	13.0	28	6.1	1.2	.5	11	2.4	<.10
390106119424301	09-15-99	20.5	10	3.3	4.0	4	60	10	1.5
390055119421901	07-01-99	21.0	15	2.5	2.5	4	63	12	2.6
	09-15-99	19.5	14	2.5	2.3	4	63	12	2.8
390017119455901	08-25-99	18.0	10	.90	3.2	2	27	5.2	.83
385654119431801	08-26-99	16.0	53	12	2.1	1	31	11	.17
390457119491301	08-24-99	--	13	.063	.73	1	14	1.2	<.10
390230119480001	06-24-99	16.0	29	6.1	3.0	4	87	38	2.9
	09-15-99	15.5	29	5.6	2.6	4	91	47	4.7
390446119451401	06-24-99	14.5	330	7.2	6.9	10	698	210	4.8
	09-16-99	15.0	380	22	8.4	8	618	170	7.7
390232119443201	06-22-99	18.0	50	7.4	4.5	3	74	21	1.7
	09-16-99	17.0	47	7.1	4.5	3	71	21	1.7
390208119433201	06-22-99	17.0	22	7.2	4.2	3	64	23	1.4
	09-16-99	16.0	22	7.3	4.0	3	63	23	1.4
384357119300201	06-22-99	18.0	93	17	1.2	.5	22	10	<.10
	09-14-99	19.0	91	17	1.2	.5	21	9.7	<.10
384156119323301	09-14-99	18.0	52	14	1.5	.7	21	4.4	.12
384136119323901	06-22-99	15.0	39	13	4.6	.4	12	8.0	.14
	09-14-99	15.0	44	15	5.4	.4	12	9.1	<.10

QUALITY OF GROUND WATER
DOUGLAS COUNTY

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	SULFATE	NITRO-	NITRO-	NITRO-	PHOS-	SOLIDS,	SOLIDS,	IRON,
			DIS-	GEN,	GEN,	GEN,	PHORUS	RESIDUE	SUM OF	
			SOLVED	AMMONIA	NO2+NO3	NITRITE	ORTHO,	AT 180	CONSTI-	DIS-
			(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	DEG. C	TUENTS,	(UG/L
			AS S04)	AS N)	AS N)	AS N)	AS P)	(MG/L)	(MG/L)	AS FE)
			(00945)	(00608)	(00631)	(00613)	(00671)	(70300)	(70301)	(01046)
390542119472001	08-24-99		8.7	.005	1.92	<.001	.010	171	145	<10
385530119501501	09-07-99		3.5	<.020	.247	<.010	.029	81	--	--
385450119495701	09-07-99		3.2	<.020	1.36	<.010	.042	62	--	--
385441119495501	09-07-99		2.4	<.020	1.00	<.010	.018	72	--	--
385354119491601	09-13-99		2.2	<.020	.329	<.010	<.010	49	--	--
385353119491901	09-13-99		2.1	<.020	.670	<.010	.016	63	--	--
385356119492301	09-15-99		2.1	<.020	.315	<.010	.014	66	--	--
385424119494401	09-09-99		4.5	<.020	.167	<.010	.038	62	--	--
385423119494301	09-09-99		2.9	<.020	.913	<.010	.032	75	--	--
385405119492801	09-09-99		4.1	<.020	1.34	<.010	<.010	74	--	--
385342119490201	09-13-99		6.1	<.020	8.30	<.010	<.010	115	--	--
385343119491001	09-13-99		3.8	<.020	1.61	<.010	<.010	68	--	--
385339119490501	09-13-99		4.6	<.020	7.65	<.010	<.010	109	--	--
385326119490101	08-26-99		5.1	<.020	.136	<.010	.035	55	--	--
385255119482301	08-26-99		9.9	.054	.009	.005	.035	81	66	240
385231119485201	09-13-99		25	<.020	.068	<.010	.017	114	--	--
385509119414801	08-25-99		24	.005	2.26	<.001	.072	212	198	<10
385352119455401	08-25-99		10	.006	3.08	.001	.107	138	99	<10
385321119405002	09-14-99		64	.006	3.47	<.001	.064	348	322	<10
385300119405702	07-01-99		42	<.020	19.9	.010	.078	492	453	13
390021119504301	08-24-99		9.5	.006	.132	<.001	.019	179	164	<10
390015119500101	09-16-99		2.6	<.002	1.81	.001	.078	149	125	17
390106119424301	09-15-99		37	<.002	1.69	<.001	.010	282	204	<10
390055119421901	07-01-99		23	.003	1.02	<.001	.008	294	210	16
	09-15-99		24	<.002	1.06	.001	.004	275	211	E8.9
390017119455901	08-25-99		18	.020	<.005	<.001	.033	156	107	E8.0
385654119431801	08-26-99		24	.009	2.01	.001	.140	298	270	<10
390457119491301	08-24-99		.95	.011	1.35	.002	.004	79	72	<10
390230119480001	06-24-99		60	.024	1.52	<.001	.129	374	338	24
	09-15-99		82	.029	1.12	.001	.145	382	350	E5.2
390446119451401	06-24-99		1800	.186	.009	.002	.001	3350	3200	12600
	09-16-99		2000	.264	<.005	.002	<.001	3590	3360	8500
390232119443201	06-22-99		71	.003	4.48	.001	.025	417	367	11
	09-16-99		72	<.002	4.50	.004	.026	420	362	<10
390208119433201	06-22-99		57	.003	3.03	.001	.035	335	264	<10
	09-16-99		61	<.002	3.31	<.001	.038	343	271	<10
384357119300201	06-22-99		87	.003	1.46	.001	.050	422	386	<10
	09-14-99		86	<.002	1.54	<.001	.054	405	388	<10
384156119323301	09-14-99		68	<.002	3.78	.001	.128	302	269	10
384136119323901	06-22-99		10	.002	2.89	.001	.102	245	192	14
	09-14-99		11	<.002	4.16	<.001	.102	257	220	16

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

MISCELLANEOUS PRECIPITATION SITES

DAYTON VALLEY

Precipitation data were collected in the Dayton Valley Hydrographic Area as part of a cooperative study with the Carson Water Subconservancy District. The purpose of the study is to refine existing maps showing the distribution of annual precipitation. The following sites are shown in figure 22..

Station Name and Number	Location and Drainage Area	Period	Precipitation (inches)
Basalite Knob 392037119312201	Lat 36°20'37", long 119°31'22", in SE ¹ / ₄ NW ¹ / ₄ sec. 16, T.17N., R.22E., Storey County, Hydrologic Unit 16050202, 8.0 mi northeast of Dayton, elevation 5,580 ft.	09/30/1998 to 05/18/1999 05/18/1999 to 10/21/1999	6.60 1.14
Brunswick Canyon 390726119371901	Lat 39°07'26", long 119°37'19", in NE ¹ / ₄ SE ¹ / ₄ sec.33, T.15N.,R.20E., Carson City, Hydrologic Unit 16050202, 8.2 mi southeast of Carson City, elevation 6,370 ft.	09/28/1998 to 05/17/1999 05/17/1999 to 10/20/1999	9.54 0.84
Brunswick Reservoir 391011119395201	Lat 39°10'11", long 119°39'52", in NW ¹ / ₄ NE ¹ / ₄ sec 18, T.15N., R.21E., Carson City, Hydrologic Unit 16050202, 5.4 mi east of Carson City, elevation 5,100 ft.	09/28/1998 to 05/17/1999 05/17/1999 to 10/20/1999	7.08 0.96
McClellan Peak 391532119420601	Lat 39°15'32", long 119°42'06", in NE ¹ / ₄ NW ¹ / ₄ sec 14, T.16N.,R.20E., Storey County, Hydrologic Unit 16050202, 3.2 mi northeast of Carson City, elevation 7,410 ft.	09/28/1998 to 05/17/1999 05/17/1999 to 10/20/1999	6.30 1.68
Churchill Butte 392024119173901	Lat 39°20'24", long 119°17'39", in SW ¹ / ₄ SW ¹ / ₄ sec 16, T.17N., R.24E., Lyon County, Hydrologic Unit 16050202, 4.5 mi southeast of Stagecoach, elevation 6,004 ft.	09/30/1998 to 05/18/1999 05/18/1999 to 10/21/1999	2.88 2.58

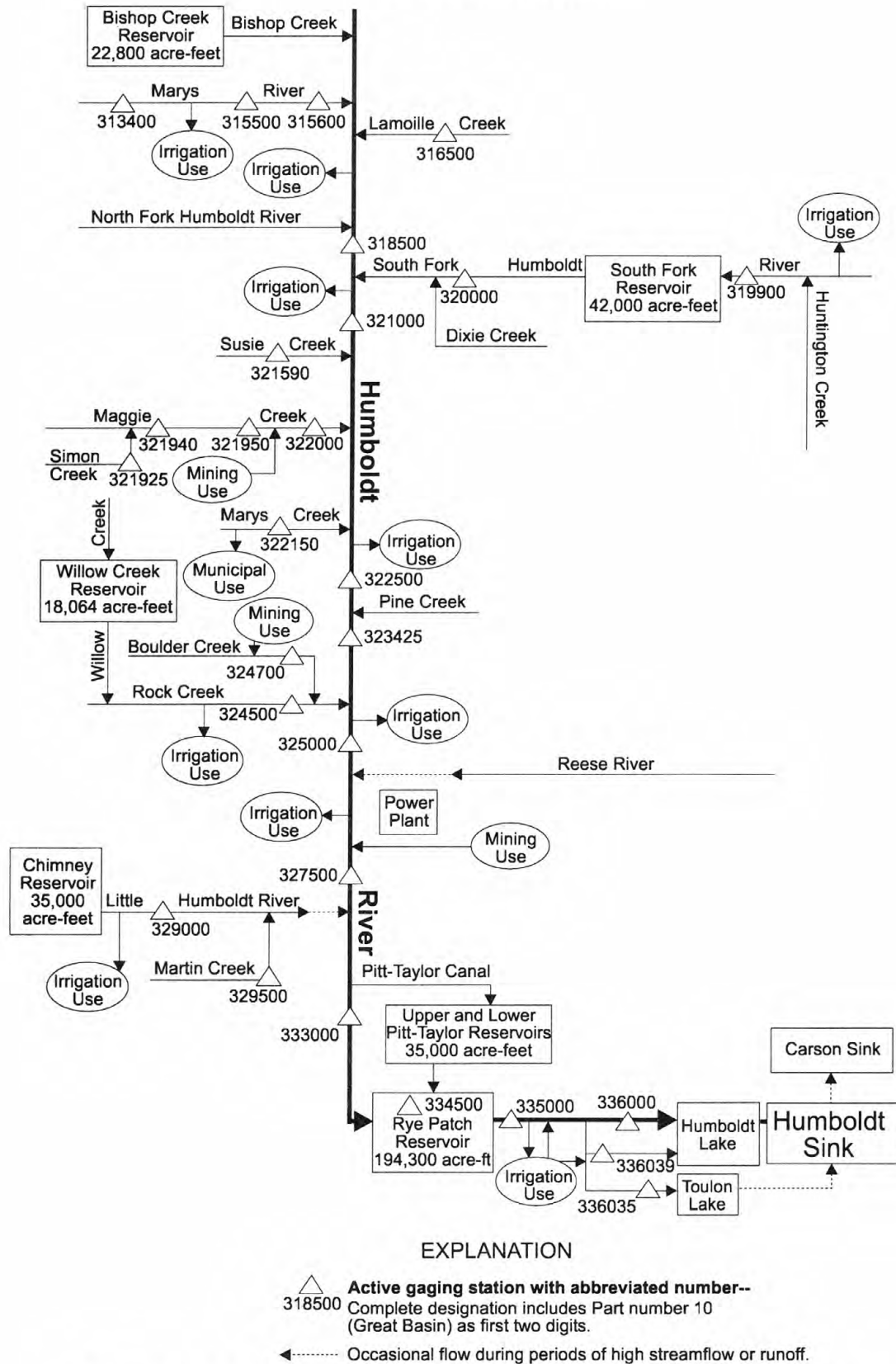


Figure 31. Schematic diagram of flow system and gaging stations in the Humboldt River basin.

HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV

LOCATION.--Lat 41°33'30", long 115°18'21", in SE 1/4 NE 1/4 sec.9, T.42 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 5 mi below Orange Bridge, and approximately 14 mi southeast of Charleston.

DRAINAGE AREA.--72 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,860 ft above sea level, from topographic map.

REMARKS.--Records fair except for October to March 15, September and estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 819 ft³/s, May 20, 1993, gage height, 4.57 ft; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
April 20	2045	233	3.45	May 30	0215	*452	*4.17

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	8.6	13	8.0	7.6	15	40	97	275	52	1.8	e.50
2	11	7.9	12	7.3	9.7	16	34	111	279	46	1.7	e.60
3	5.2	6.8	15	7.0	14	18	30	111	291	42	1.8	e.70
4	5.1	7.9	10	7.4	15	13	32	94	250	35	1.7	2.7
5	8.0	7.4	6.4	8.5	11	14	30	88	217	31	2.7	2.8
6	11	6.7	9.1	11	11	17	30	94	241	28	2.1	2.3
7	8.5	6.7	11	7.9	15	13	32	121	240	25	1.7	1.8
8	7.9	6.8	10	5.7	11	15	35	142	233	21	1.4	1.8
9	7.6	6.7	11	6.9	15	10	27	141	205	18	e1.5	1.9
10	5.9	5.8	12	7.9	5.0	13	31	128	190	15	e1.8	1.7
11	7.0	8.4	12	11	8.8	9.6	32	119	184	13	e2.2	1.5
12	7.7	5.3	11	7.8	12	11	35	124	182	12	e2.6	1.5
13	7.5	7.0	9.9	6.6	14	12	49	128	181	11	e2.1	1.7
14	8.5	10	9.2	9.5	12	14	57	119	208	8.4	e1.5	2.0
15	6.3	11	7.5	13	9.6	18	61	101	236	10	e1.3	2.1
16	5.0	9.9	8.1	13	12	20	77	92	240	8.8	e1.2	2.0
17	5.6	10	10	8.8	11	24	100	90	211	7.7	e1.1	1.9
18	6.8	8.0	7.7	11	11	37	135	107	188	6.4	e1.0	2.0
19	5.9	5.5	e5.6	10	8.2	60	170	122	172	7.1	e.90	2.6
20	6.4	6.9	e5.5	12	8.6	73	192	151	154	6.9	e1.0	2.4
21	7.9	16	e6.5	9.2	7.2	68	174	192	139	5.9	e1.1	2.9
22	6.9	14	e7.9	8.5	9.2	57	122	237	127	5.3	e1.2	3.5
23	11	16	e9.3	12	9.6	63	97	312	120	4.5	e1.1	3.3
24	10	12	e11	5.3	11	76	90	381	107	3.7	e.90	3.4
25	8.6	12	e15	9.6	9.2	97	111	382	96	3.8	e.80	2.9
26	9.8	12	e14	9.8	10	109	144	358	86	3.6	e.80	1.6
27	10	13	16	4.6	11	80	147	326	77	2.6	e.70	2.1
28	7.2	14	21	7.8	11	66	135	328	68	2.4	e.80	2.8
29	7.1	11	17	11	---	62	105	340	61	2.5	e.50	4.6
30	7.5	12	15	16	---	57	96	383	55	2.4	e.60	5.3
31	6.3	---	12	16	---	45	---	307	---	2.2	e.50	---
TOTAL	237.1	285.3	340.7	290.1	299.7	1202.6	2450	5826	5313	443.2	42.10	68.90
MEAN	7.65	9.51	11.0	9.36	10.7	38.8	81.7	188	177	14.3	1.36	2.30
MAX	11	16	21	16	15	109	192	383	291	52	2.7	5.3
MIN	5.0	5.3	5.5	4.6	5.0	9.6	27	88	55	2.2	.50	.50
AC-FT	470	566	676	575	594	2390	4860	11560	10540	879	84	137

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	3.70	7.13	8.00	11.9	18.2	64.4	111	210
MAX	7.65	11.0	12.7	28.6	51.3	139	229	345
(WY)	1999	1992	1996	1997	1996	1996	1993	1995
MIN	1.02	4.40	3.21	3.73	4.83	17.4	47.5	7.04
(WY)	1996	1996	1994	1994	1994	1994	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

	1998	1999	1992-1999
ANNUAL TOTAL	22088.2	16798.70	
ANNUAL MEAN	60.5	46.0	50.0
HIGHEST ANNUAL MEAN			73.0
LOWEST ANNUAL MEAN			15.8
HIGHEST DAILY MEAN	330	May 11	579
LOWEST DAILY MEAN	1.5	Sep 2	.00
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 28	.00
INSTANTANEOUS PEAK FLOW		452	819
INSTANTANEOUS PEAK STAGE		4.17	4.57
ANNUAL RUNOFF (AC-FT)	43810	33320	36210
10 PERCENT EXCEEDS	247	145	177
50 PERCENT EXCEEDS	10	11	9.1
90 PERCENT EXCEEDS	3.4	1.9	1.4

e Estimated

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.--

WATER TEMPERATURE: Maximum, 25.5°C, July 12; minimum, freezing point, many days during winter months.

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.0	9.5	12.5	6.5	3.0	4.5	4.0	1.5	2.5	.0	.0	.0
2	15.0	10.5	12.5	7.0	3.5	5.0	4.0	1.0	2.5	.0	.0	.0
3	11.5	8.0	9.5	6.0	1.0	3.5	4.5	1.5	3.0	.0	.0	.0
4	9.5	5.5	7.5	5.5	2.5	4.0	2.0	.0	.5	.0	.0	.0
5	11.0	3.5	7.5	5.5	2.0	4.0	.5	.0	.0	.0	.0	.0
6	13.0	5.0	8.5	4.0	.5	2.5	.0	.0	.0	.0	.0	.0
7	13.5	6.0	9.5	2.5	1.0	2.0	.0	.0	.0	.5	.0	.0
8	12.5	5.5	9.0	4.0	.0	1.5	.0	.0	.0	.0	.0	.0
9	11.5	5.0	8.5	3.5	.0	1.5	.0	.0	.0	.0	.0	.0
10	10.5	5.0	8.0	2.0	.0	1.0	.0	.0	.0	.5	.0	.0
11	10.5	3.5	7.0	4.0	.5	2.5	.0	.0	.0	.5	.0	.0
12	12.0	5.0	8.5	3.5	.0	2.0	.0	.0	.0	.5	.0	.0
13	11.5	6.5	9.0	4.0	.5	2.5	.0	.0	.0	.5	.0	.0
14	10.5	5.5	8.0	5.0	1.0	3.0	.5	.0	.0	.5	.0	.0
15	9.0	5.0	7.0	5.0	2.0	3.5	.5	.0	.0	.5	.0	.0
16	8.0	2.5	5.0	4.0	.5	2.5	.5	.0	.0	.5	.0	.5
17	8.0	1.5	5.0	4.0	1.5	3.0	.5	.0	.0	.0	.0	.0
18	9.0	3.0	6.0	3.5	.5	2.0	.0	.0	.0	.5	.0	.0
19	9.0	3.0	6.0	2.5	.0	1.0	.0	.0	.0	.5	.0	.0
20	9.5	3.0	6.0	2.0	.0	1.0	.0	.0	.0	1.0	.0	.5
21	9.0	3.5	6.5	5.0	1.5	3.0	.0	.0	.0	.5	.0	.0
22	9.0	6.5	7.5	5.5	3.0	4.0	.0	.0	.0	.5	.0	.0
23	10.0	5.0	7.5	5.5	2.0	4.0	.0	.0	.0	.5	.0	.0
24	8.0	4.5	6.5	4.5	1.5	3.0	.0	.0	.0	.5	.0	.0
25	7.5	6.5	7.0	4.5	1.0	3.0	.0	.0	.0	.5	.0	.0
26	9.5	4.5	7.0	4.0	.5	2.5	.0	.0	.0	.5	.0	.5
27	9.5	4.5	7.0	3.5	1.0	2.5	.0	.0	.0	.5	.0	.0
28	7.0	4.5	6.0	4.0	2.5	3.0	.0	.0	.0	.5	.0	.0
29	6.0	4.0	5.0	3.0	1.0	2.0	.0	.0	.0	.5	.0	.5
30	7.0	2.5	4.5	4.0	1.0	2.0	.0	.0	.0	.5	.5	.5
31	6.0	.5	3.5	---	---	---	.0	.0	.0	.5	.5	.5
MONTH	16.0	.5	7.4	7.0	.0	2.7	4.5	.0	.3	1.0	.0	.1

HUMBOLDT RIVER BASIN

10313400 MARYS RIVER BELOW ORANGE BRIDGE NEAR CHARLESTON, NV--Continued

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	.5	.5	.5	7.0	1.5	3.5	6.0	.0	2.5	6.0	3.0	4.5
2	.5	.5	.5	4.0	.5	2.0	7.0	.5	3.5	7.5	4.5	5.5
3	.5	.5	.5	6.5	.5	2.5	3.0	.0	1.5	7.0	2.0	4.5
4	.5	.5	.5	4.5	.0	1.5	7.0	.0	2.5	10.0	1.5	5.0
5	.5	.5	.5	2.0	.0	1.0	3.5	.5	2.0	11.5	1.5	6.0
6	1.0	.5	.5	4.5	.0	2.0	9.5	1.5	4.5	13.5	2.5	7.5
7	1.0	.5	.5	5.0	.0	2.0	7.5	1.5	4.0	13.0	4.0	8.0
8	1.0	.5	.5	4.0	.0	1.5	9.0	2.0	4.5	11.5	3.0	7.0
9	2.5	.5	1.0	3.0	.5	1.5	6.0	.5	3.0	9.5	2.0	5.5
10	.5	.5	.5	4.5	.0	2.0	8.0	.0	3.0	9.5	1.0	5.0
11	.5	.5	.5	5.5	.5	2.5	10.5	.5	5.0	12.0	1.5	6.5
12	.5	.5	.5	5.5	.0	2.5	12.0	1.5	6.5	10.0	4.5	7.0
13	.5	.5	.5	7.0	.5	3.0	12.0	2.5	6.5	10.0	3.5	6.5
14	1.5	.5	.5	8.0	.5	4.0	10.5	1.0	5.5	8.0	2.0	5.0
15	1.0	.5	.5	7.0	.5	3.5	11.0	.5	5.5	10.0	3.0	6.0
16	1.5	.5	.5	8.5	.5	3.5	11.5	.5	6.0	11.5	2.0	6.5
17	2.0	.5	1.0	8.0	.5	3.0	10.5	1.5	6.0	13.5	3.0	8.0
18	1.0	.5	.5	8.5	.5	3.0	11.0	2.5	6.5	13.0	4.5	8.5
19	2.0	.5	1.0	8.5	.0	3.0	9.5	3.0	6.0	11.5	4.5	8.0
20	1.0	.5	.5	5.5	.0	2.5	10.0	4.0	6.0	12.0	4.0	8.0
21	1.5	.5	.5	6.0	1.5	3.5	8.5	3.0	5.0	10.5	4.5	7.5
22	1.0	.5	.5	8.5	.0	4.0	7.5	1.5	4.5	14.0	4.0	8.5
23	3.5	.5	1.5	9.5	1.5	5.0	7.5	2.5	5.0	13.5	5.0	9.0
24	4.5	.5	2.5	9.5	.5	4.5	9.0	3.0	5.5	11.5	5.5	8.0
25	3.0	.5	1.5	9.5	1.0	5.0	12.0	3.0	7.0	11.5	4.5	7.5
26	3.0	.5	1.5	8.5	2.5	5.0	7.5	4.0	5.5	11.0	5.5	8.0
27	4.0	.5	2.0	6.5	1.0	3.5	11.0	2.5	6.5	12.0	4.5	8.0
28	5.0	.5	2.5	7.5	.0	3.5	7.0	3.0	5.0	11.5	5.5	8.0
29	---	---	---	7.5	.0	4.0	8.5	3.0	5.5	12.0	5.0	8.0
30	---	---	---	6.0	2.0	3.5	6.0	3.5	4.5	10.0	5.5	7.0
31	---	---	---	3.5	1.0	2.0	---	---	---	12.5	4.0	8.0
MONTH	5.0	.5	.9	9.5	.0	3.0	12.0	.0	4.8	14.0	1.0	7.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	12.5	5.0	8.5	21.0	10.5	15.5	23.5	14.0	18.5	15.0	10.0	12.5
2	8.0	6.0	7.0	21.0	10.5	16.0	22.0	14.5	18.0	15.5	9.5	12.5
3	8.0	4.0	6.0	21.0	10.5	16.0	22.0	16.5	19.0	16.5	10.0	12.5
4	11.0	3.5	7.0	20.5	11.0	15.5	23.0	14.0	17.5	19.5	8.5	13.0
5	10.0	6.0	8.0	21.5	9.5	15.5	21.5	13.5	17.5	20.0	10.0	14.0
6	11.0	6.0	8.0	23.0	11.0	17.0	21.5	13.5	17.0	20.5	10.5	14.5
7	13.0	5.0	8.5	23.0	14.5	18.5	19.5	13.5	16.5	21.0	10.0	14.5
8	11.0	5.5	7.5	23.0	10.5	16.5	23.5	12.5	17.5	22.0	9.0	14.5
9	12.5	3.5	8.0	24.0	11.0	17.0	24.0	13.0	18.5	19.5	11.0	14.5
10	13.0	5.0	9.0	22.5	11.5	17.0	17.5	13.5	15.0	19.0	11.0	14.5
11	14.0	5.0	9.0	25.0	12.0	18.5	18.5	12.0	15.0	21.0	10.0	14.5
12	14.5	5.5	10.0	25.5	12.5	19.0	22.0	12.5	17.0	21.0	8.5	14.0
13	13.5	6.5	10.0	25.0	14.0	19.5	22.0	12.5	17.0	19.0	9.5	13.5
14	15.0	7.0	11.0	22.0	16.0	18.5	22.5	12.5	17.0	21.5	10.5	15.0
15	15.0	7.0	11.5	23.5	12.5	18.0	23.0	12.5	17.0	21.0	10.0	14.5
16	14.0	7.5	10.5	23.0	12.0	17.5	24.0	12.5	17.5	19.5	10.5	14.5
17	15.5	7.5	11.0	22.5	13.0	18.0	24.5	12.5	18.0	17.5	10.5	14.0
18	16.0	7.5	11.5	22.0	12.5	17.0	22.0	13.0	17.0	19.0	10.5	14.0
19	15.5	7.5	11.5	23.5	12.5	18.0	24.5	15.0	19.5	19.5	10.5	14.5
20	17.0	7.5	12.0	23.5	12.5	18.0	23.5	15.0	19.0	18.5	10.0	13.5
21	14.0	8.5	11.5	23.5	12.0	18.0	23.5	14.5	18.5	19.0	11.0	14.0
22	17.0	8.0	12.5	24.5	12.5	18.5	25.0	15.0	19.5	20.5	11.0	14.5
23	18.0	8.0	13.0	24.5	12.5	18.5	23.0	16.5	19.5	18.5	12.0	14.5
24	16.0	8.5	12.5	23.0	13.5	18.0	24.5	16.0	19.5	19.0	11.0	14.0
25	17.5	9.5	13.0	24.0	12.0	18.0	24.0	14.5	19.0	19.0	10.5	13.5
26	15.5	7.0	11.5	24.5	13.5	19.0	24.5	14.5	19.0	15.0	7.5	10.5
27	17.0	7.5	12.5	25.0	15.0	20.0	20.0	16.0	17.5	14.5	5.5	9.0
28	18.5	8.0	13.0	22.5	15.5	19.0	21.5	13.5	17.0	14.0	5.0	8.5
29	20.0	9.5	14.5	21.0	15.5	18.5	24.0	13.5	18.0	14.5	5.5	9.0
30	21.0	10.5	15.5	21.0	15.0	18.0	22.5	13.5	17.0	15.0	7.0	10.5
31	---	---	---	21.0	14.0	17.5	21.0	10.0	14.5	---	---	---
MONTH	21.0	3.5	10.5	25.5	9.5	17.7	25.0	10.0	17.7	22.0	5.0	13.2
YEAR	25.5	.0	7.1									

HUMBOLDT RIVER BASIN

10315500 MARYS RIVER ABOVE HOT SPRINGS CREEK, NEAR DEETH, NV

LOCATION.--Lat 41°15'10", long 115°15'20", in NE 1/4 SE 1/4 sec.24, T.39 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 1 mi upstream from Hot Springs Creek, 7 mi north of Cross Ranch, and 13 mi north of Deeth.

DRAINAGE AREA.--415 mi².

PERIOD OF RECORD.--October 1943 to September 1980, October 1981 to current year. Prior to October 1950, published as "below Hot Springs Creek, near Deeth."

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above sea level, from river-profile map. Prior to November 3, 1950, at site 1.2 mi downstream at different datum. November 3, 1950, to September 30, 1967, water-stage recorder at datum 1.00 ft higher. October 1, 1967, to September 8, 1982, at site 200 ft downstream at datum 0.33 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Several diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,210 ft³/s, February 12, 1962, gage height, 7.63 ft, from rating curve extended above 1,000 ft³/s on basis of slope-area measurement of peak flow; no flow for part of each day August 27-30, September 2-5, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jun 01	0645	*399	*4.64	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	20	34	26	17	27	93	193	374	59	4.2	1.7
2	3.8	23	35	24	18	32	88	192	341	54	3.8	1.7
3	3.9	25	34	23	17	42	84	194	347	49	3.5	1.8
4	4.0	26	35	22	18	44	80	196	343	45	3.3	1.8
5	4.0	26	e26	22	19	40	76	187	329	41	3.2	1.7
6	4.2	27	e23	23	19	38	83	175	301	38	3.0	1.7
7	4.4	28	e20	24	22	34	82	173	294	35	2.8	1.6
8	4.6	29	e17	24	23	33	83	176	271	32	2.7	1.6
9	4.9	30	e15	23	25	31	87	186	250	29	2.6	1.6
10	5.6	30	e15	25	24	30	86	192	232	26	2.7	1.6
11	5.9	30	28	24	24	30	81	189	213	24	2.7	1.6
12	6.0	30	29	26	21	30	80	185	197	22	2.5	1.6
13	6.6	31	29	27	22	28	80	187	185	20	2.4	1.6
14	7.0	31	30	24	22	29	88	188	181	18	2.3	1.6
15	7.5	31	30	22	23	31	99	186	185	17	2.2	1.6
16	7.9	32	30	21	23	37	106	181	193	16	2.1	1.6
17	8.7	33	29	22	28	39	115	170	198	15	2.0	1.6
18	9.7	33	29	21	25	44	129	159	192	14	2.0	1.8
19	10	33	27	21	26	48	147	160	180	13	2.0	2.1
20	11	33	26	22	23	66	164	163	169	12	1.9	2.2
21	11	34	23	20	25	87	178	174	155	11	1.9	2.4
22	12	32	24	19	20	90	188	192	143	9.8	1.8	2.6
23	13	34	22	20	24	86	176	214	131	9.0	1.8	2.8
24	14	30	22	17	25	90	163	237	119	7.9	1.7	2.9
25	17	29	22	17	25	100	157	271	109	7.2	1.7	2.6
26	18	29	24	18	24	121	157	311	99	6.7	1.7	2.2
27	19	30	24	17	23	138	173	334	91	6.1	1.7	1.9
28	19	30	24	17	25	133	180	347	81	5.5	1.7	1.6
29	20	31	25	17	---	114	188	354	73	4.9	1.6	1.3
30	13	32	25	16	---	102	191	350	66	4.8	1.6	1.4
31	17	---	27	16	---	97	---	364	---	4.5	1.6	---
TOTAL	296.3	892	803	660	630	1891	3682	6780	6042	656.4	72.7	55.8
MEAN	9.56	29.7	25.9	21.3	22.5	61.0	123	219	201	21.2	2.35	1.86
MAX	20	34	35	27	28	138	191	364	374	59	4.2	2.9
MIN	3.6	20	15	16	17	27	76	159	66	4.5	1.6	1.3
AC-FT	588	1770	1590	1310	1250	3750	7300	13450	11980	1300	144	111

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	MEAN	6.04	11.8	15.5	20.0	37.4	78.0	174	252	161	27.5	4.46	2.81
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	2.03	3.32	5.78	7.05	16.8	40.0	43.2	3.50	1.11	.49	.38	
(WY)	1956	1993	1995	1955	1993	1977	1955	1992	1992	1961	1948	1955	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1944 - 1999
ANNUAL TOTAL	29710.3	22461.2	
ANNUAL MEAN	81.4	61.5	65.9
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			16.1
HIGHEST DAILY MEAN	430	May 29	2690
LOWEST DAILY MEAN	1.6	Sep 15	.20
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 15	.20
INSTANTANEOUS PEAK FLOW			4210
INSTANTANEOUS PEAK STAGE		4.64	7.63
ANNUAL RUNOFF (AC-FT)	58930	44550	47770
10 PERCENT EXCEEDS	300	187	207
50 PERCENT EXCEEDS	25	25	18
90 PERCENT EXCEEDS	3.0	2.0	1.7

e Estimated

HUMBOLDT RIVER BASIN

10315600 MARYS RIVER BELOW TWIN BUTTES NEAR DEETH, NV

LOCATION.--Lat 41°09'16", long 115°16'13", in SW 1/4 NW 1/4 sec.25, T.38 N., R.59 E., Elko County, Hydrologic Unit 16040101, on right bank, 6 mi north of Deeth.

DRAINAGE AREA.--516 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 5,410 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 592 ft³/s, March 18, 1993, gage height, 7.62 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 386 ft³/s, June 1, gage height, 6.63 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	13	25	32	e21	33	87	169	380	73	.32	.00
2	.30	15	25	27	e22	34	84	168	375	67	.24	.00
3	.30	15	25	26	e23	45	81	166	368	62	.13	.00
4	.89	16	27	22	e20	51	78	171	361	58	.08	.00
5	.90	17	e23	24	e23	51	74	165	353	55	.07	.00
6	.82	16	e21	23	e25	48	78	155	331	52	.04	.00
7	.95	17	e19	24	e24	44	78	148	294	49	.00	.00
8	1.4	18	e17	22	e29	42	77	147	274	44	.00	.00
9	2.4	16	e16	21	e26	42	78	151	255	37	.00	.00
10	3.0	16	e15	23	e24	39	78	159	229	34	.00	.00
11	3.6	16	e17	21	e24	37	75	161	203	30	.00	.00
12	3.8	16	18	22	e25	37	73	159	184	28	.00	.00
13	3.8	16	19	22	e26	37	71	158	169	25	.00	.00
14	3.9	16	21	22	e28	36	72	158	161	24	.00	.00
15	4.2	16	20	30	e27	37	79	158	159	21	.00	.00
16	4.7	16	19	27	e28	41	86	156	163	18	.00	.00
17	4.7	18	18	25	e30	48	91	150	168	16	.00	.00
18	5.1	18	18	29	e29	51	99	140	169	15	.00	.00
19	5.6	18	14	35	e28	56	110	135	161	13	.00	.00
20	5.8	20	13	37	e28	63	125	136	153	11	.00	.00
21	5.9	19	10	34	e27	81	137	141	141	9.2	.00	.00
22	6.1	21	e11	31	e28	90	149	153	130	7.9	.00	.00
23	6.4	19	e18	33	27	91	149	171	120	6.5	.00	.00
24	7.1	23	e27	31	31	90	139	191	112	5.2	.00	.00
25	.11	24	34	27	31	95	132	222	105	4.3	.00	.00
26	12	22	39	e27	31	106	129	275	97	3.8	.00	.00
27	11	22	38	e21	28	120	136	320	90	3.2	.00	.00
28	12	23	35	e21	29	129	145	347	86	1.9	.00	.00
29	13	23	36	e21	---	119	153	353	79	1.1	.00	.00
30	13	26	33	e22	---	102	169	355	78	.62	.00	.00
31	13	---	33	e21	---	90	---	363	---	.52	.00	---
TOTAL	166.90	551	704	803	742	1985	3112	6001	5948	776.24	0.88	0.00
MEAN	5.38	18.4	22.7	25.9	26.5	64.0	104	194	198	25.0	.028	.000
MAX	13	26	39	37	31	129	169	363	380	73	.32	.00
MIN	.24	13	10	21	20	33	71	135	78	.52	.00	.00
AC-FT	331	1090	1400	1590	1470	3940	6170	11900	11800	1540	1.7	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	1.67	7.61	10.4	15.0	24.2	88.6	136	223	163
MAX	5.38	18.4	22.7	39.2	36.3	171	228	342	303
(WY)	1999	1999	1999	1997	1996	1993	1993	1998	1998
MIN	.000	.50	1.81	4.19	5.25	32.5	41.4	36.3	1.90
(WY)	1992	1995	1993	1993	1993	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

	1998 CALENDAR YEAR	1999 WATER YEAR	1992 - 1999
ANNUAL TOTAL	30337.13	20790.02	
ANNUAL MEAN	83.1	57.0	58.1
HIGHEST ANNUAL MEAN			85.9
LOWEST ANNUAL MEAN			12.1
HIGHEST DAILY MEAN	431 May 17	380 Jun 1	481 May 19 1996
LOWEST DAILY MEAN	.00 Aug 19	.00 Aug 7	.00 Oct 1 1991
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 19	.00 Aug 7	.00 Oct 1 1991
INSTANTANEOUS PEAK FLOW		386 Jun 1	592 Mar 18 1993
INSTANTANEOUS PEAK STAGE		6.63 Jun 1	7.62 Mar 18 1993
ANNUAL RUNOFF (AC-FT)	60170	41240	42100
10 PERCENT EXCEEDS	308	159	207
50 PERCENT EXCEEDS	25	25	13
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated

HUMBOLDT RIVER BASIN

10315600 MARYS RIVER BELOW TWIN BUTTES NEAR DEETH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1992 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: June 1992 to current year.

INSTRUMENTATION.--Water temperature recorder since June 1992, hourly.

REMARKS.--Available record may not represent actual stream temperature during the period February 4 to August 7, due to temporary probe installation in stilling well rather than stream channel. Records represent water temperature at probe within 0.5°C. Interruptions in record due to periods of no flow (see Water-Discharge Records).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 28.0°C, July 13, 1996; minimum recorded, freezing point on many days during winter months of most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 19.5°C, July 30-August 6; minimum recorded, 1.0°C, February 5-9.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	2.5	6.0	10.0	14.0	16.5	19.0	---
2	---	---	---	---	---	2.5	6.0	10.0	14.5	16.5	19.5	---
3	---	---	---	---	---	2.5	6.5	10.0	14.0	17.0	19.5	---
4	---	---	---	---	---	2.5	6.5	10.0	13.0	17.0	19.5	---
5	---	---	---	---	1.0	2.5	7.0	9.5	13.5	17.0	19.5	---
6	---	---	---	---	1.0	2.5	7.0	9.5	14.0	17.0	19.5	---
7	---	---	---	---	1.0	2.5	7.0	9.5	14.0	17.0	---	---
8	---	---	---	---	1.0	2.5	7.5	9.5	14.5	17.0	---	---
9	---	---	---	---	1.5	2.5	7.5	10.0	14.5	17.5	---	---
10	---	---	---	---	1.5	2.5	7.5	10.0	14.0	17.5	---	---
11	---	---	---	---	1.5	2.5	8.0	10.0	14.0	17.5	---	---
12	---	---	---	---	1.5	2.5	8.0	10.0	14.0	17.5	---	---
13	---	---	---	---	1.5	2.5	8.0	10.0	14.0	17.5	---	---
14	---	---	---	---	1.5	3.0	8.5	10.5	14.0	18.0	---	---
15	---	---	---	---	1.5	3.0	8.5	10.5	14.0	18.0	---	---
16	---	---	---	---	1.5	3.0	8.5	10.5	14.5	18.0	---	---
17	---	---	---	---	2.0	3.0	8.5	10.5	14.5	18.0	---	---
18	---	---	---	---	2.0	3.0	8.5	10.5	15.0	18.5	---	---
19	---	---	---	---	2.0	3.0	8.5	10.5	15.0	18.5	---	---
20	---	---	---	---	2.0	3.5	9.0	10.5	15.5	18.5	---	---
21	---	---	---	---	2.0	3.5	9.0	10.5	15.5	18.5	---	---
22	---	---	---	---	2.0	3.5	9.5	11.0	15.5	18.5	---	---
23	---	---	---	---	2.0	4.0	9.5	11.0	16.0	18.5	---	---
24	---	---	---	---	2.0	4.0	9.5	11.5	16.0	18.5	---	---
25	---	---	---	---	2.0	4.5	9.5	11.5	16.0	18.5	---	---
26	---	---	---	---	2.0	4.5	9.5	12.0	16.0	19.0	---	---
27	---	---	---	---	2.0	5.0	10.0	12.5	16.5	19.0	---	---
28	---	---	---	---	2.0	5.0	10.0	13.0	16.5	19.0	---	---
29	---	---	---	---	---	5.5	10.0	14.5	16.5	19.0	---	---
30	---	---	---	---	---	5.5	10.0	15.5	16.5	19.0	---	---
31	---	---	---	---	---	6.0	---	13.5	---	19.0	---	---

HUMBOLDT RIVER BASIN

10316500 LAMOILLE CREEK NEAR LAMOILLE, NV

LOCATION.--Lat 40°41'27", long 115°28'34" (revised), in NE 1/4 NE 1/4 sec.6, T.32 N., R.58 E., Elko County, Hydrologic Unit 16040101, in Humboldt National Forest, at mouth of canyon, on right bank, 100 ft upstream from McDermott ditch diversion, and 3 mi south of Lamoille.

DRAINAGE AREA.--24.9 mi².

PERIOD OF RECORD.--May 1915 to May 1923, October 1943 to current year.

REVISED RECORDS.--WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,240 ft above sea level, from topographic map. Prior to September 30, 1943, nonrecording gages at various sites nearby at different datums. October 1, 1943 to January 16, 1975, water-stage recorder at site 600 ft downstream at datum 4.28 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft³/s, June 3, 1986, gage height, 6.08 ft, maximum gage height, 6.11 ft, June 3, 1995; minimum daily, 1.5 ft³/s, January 12, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 310 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 27	1830	*644	*4.90	Jun 15	2000	628	4.85

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.9	8.2	6.1	6.0	6.0	e15	51	410	341	43	8.3
2	11	9.0	7.9	6.6	8.3	5.7	e16	54	381	314	40	8.1
3	11	8.5	7.9	7.2	5.3	5.8	e17	55	313	291	38	7.9
4	11	8.4	e7.0	13	5.4	5.7	e17	51	274	258	38	7.5
5	10	8.5	e6.2	5.9	5.2	e5.7	e19	52	261	231	36	7.0
6	10	8.2	e5.2	5.6	5.1	e5.0	e20	54	283	228	33	6.4
7	10	8.6	e5.9	5.5	5.5	e5.0	e25	59	282	244	30	6.4
8	9.8	8.6	e6.7	5.5	5.4	e5.2	e29	66	281	216	27	6.2
9	9.5	8.5	e6.8	6.0	e5.3	e7.5	e26	70	280	194	25	5.8
10	9.3	10	e5.2	5.5	e5.2	e5.1	e22	67	293	176	26	5.7
11	9.2	8.3	e6.1	e5.0	e5.0	e9.0	e17	67	319	162	26	5.5
12	8.8	8.0	7.8	5.4	e5.0	e6.2	e14	73	351	153	23	5.3
13	8.4	8.0	7.4	5.3	e5.0	e5.5	e14	79	401	151	21	5.1
14	8.4	8.0	7.1	5.2	e5.0	e9.5	e15	76	477	148	19	5.1
15	8.6	8.2	7.0	5.5	4.9	e7.5	17	75	524	138	18	4.9
16	8.4	8.1	6.9	5.4	4.9	e6.0	18	72	516	124	17	5.1
17	8.3	8.1	6.9	5.4	5.2	e5.0	20	75	491	115	15	5.0
18	8.1	7.9	e7.0	5.8	5.0	e5.5	25	82	488	108	14	5.0
19	8.1	8.3	e6.2	5.3	5.1	e7.0	34	94	454	101	14	5.1
20	8.0	11	e5.3	6.0	e5.1	e8.0	42	110	445	95	14	5.1
21	8.0	7.7	e4.2	3.9	5.2	e10	44	141	413	88	15	4.8
22	8.6	8.3	e2.8	e6.0	e7.3	e12	41	192	398	81	13	4.6
23	8.5	7.9	e3.3	e5.3	5.6	e13	40	259	398	76	12	4.5
24	8.3	8.0	e3.9	e5.2	5.7	e16	39	342	372	73	11	4.3
25	9.6	7.8	e4.2	e5.1	5.6	e18	40	435	348	68	10	4.3
26	10	7.7	5.3	e5.2	e5.6	e19	48	491	309	63	9.7	4.4
27	9.9	7.7	5.3	e5.6	5.6	e17	53	537	295	60	9.5	4.6
28	9.7	7.9	5.5	e5.5	5.7	e15	55	559	293	57	9.4	4.7
29	9.8	8.1	6.0	e5.5	---	e14	53	526	305	53	8.9	4.6
30	9.3	8.2	6.0	e5.8	---	e15	52	472	336	50	8.3	4.5
31	8.8	---	6.3	8.4	---	e15	---	420	---	46	8.3	---
TOTAL	288.4	250.4	187.5	182.7	153.2	289.9	887	5756	10991	4503	632.1	165.8
MEAN	9.30	8.35	6.05	5.89	5.47	9.35	29.6	186	366	145	20.4	5.53
MAX	12	11	8.2	13	8.3	19	55	559	524	341	43	8.3
MIN	8.0	7.7	2.8	3.9	4.9	5.0	14	51	261	46	8.3	4.3
AC-FT	572	497	372	362	304	575	1760	11420	21800	8930	1250	329

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1999, BY WATER YEAR (WY)

MEAN	7.66	6.54	5.62	5.25	5.43	8.02	26.3	142	219	87.9	17.9	8.26
MAX	49.1	29.4	17.5	12.9	12.4	20.0	71.4	303	396	203	65.1	42.4
(WY)	1983	1983	1983	1997	1971	1989	1989	1997	1997	1975	1984	1982
MIN	2.70	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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1915 - 1999
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ANNUAL TOTAL	24053.5		24287.0			
ANNUAL MEAN	65.9		66.5		45.4	
HIGHEST ANNUAL MEAN					77.7	1997
LOWEST ANNUAL MEAN					20.5	1959
HIGHEST DAILY MEAN	425	Jun 30	559	May 28	693	May 30 1983
LOWEST DAILY MEAN	2.8	Dec 22	2.8	Dec 22	1.5	Jan 12 1963
ANNUAL SEVEN-DAY MINIMUM	4.1	Dec 20	4.1	Dec 20	2.0	Jan 1 1917
INSTANTANEOUS PEAK FLOW			644	May 27	838	Jun 3 1986
INSTANTANEOUS PEAK STAGE			4.90	May 27	6.11	Jun 3 1995
ANNUAL RUNOFF (AC-FT)	47710		48170		32870	
10 PERCENT EXCEEDS	271		282		157	
50 PERCENT EXCEEDS	9.6		9.0		8.5	
90 PERCENT EXCEEDS	4.8		5.1		3.7	

e Estimated

HUMBOLDT RIVER BASIN

10318500 HUMBOLDT RIVER NEAR ELKO, NV

LOCATION.--Lat 40°56'10", long 115°37'25", in SE 1/4 NE 1/4 sec.11, T.35 N., R.56 E., Elko County, Hydrologic Unit 16040101, on right bank, 1 mi southwest of Ryndon, 1.5 mi upstream from Jackson Creek, 5 mi downstream from confluence of North Fork Humboldt River, and 10 mi northeast of Elko.

DRAINAGE AREA.--2,779 mi², revised.

PERIOD OF RECORD.--June 1895 to October 1902, October 1944 to current year.

REVISED RECORDS.--WSP 1714: Drainage area. WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,142.32 ft above sea level. June 1895 to October 1902, nonrecording gage at site 11 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of 95,800 acres above station. No flow some years during summer months. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s, February 19, 1986, gage height, 7.64 ft; maximum gage height 12.30 ft, February 13, 1962; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,840 ft³/s, June 4, gage height, 7.13 ft; minimum daily, 1.2 ft³/s, September 3.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	97	170	150	e161	250	289	718	2230	e840	22	1.6
2	56	100	171	188	163	322	283	825	1960	e730	19	1.3
3	55	105	172	178	145	319	291	728	2190	e620	17	1.2
4	57	104	184	171	152	329	293	823	2670	e530	15	1.4
5	56	101	135	153	158	328	282	869	2540	e450	12	1.3
6	61	99	e115	152	172	265	312	779	2340	e380	11	1.3
7	67	105	e103	135	196	247	350	714	2160	e290	8.7	1.3
8	57	121	e90	158	233	244	372	597	2040	e220	8.0	1.4
9	51	124	e79	170	263	237	387	524	1690	193	7.4	1.3
10	47	109	e76	165	253	228	e385	522	1540	181	16	1.4
11	47	108	e85	154	e185	220	e400	523	1390	165	28	1.5
12	47	106	e95	122	e160	224	e390	557	1300	154	28	1.6
13	47	106	e103	128	e170	222	e370	540	1260	156	27	1.8
14	42	112	e113	157	e185	232	e370	522	1290	152	24	1.8
15	41	122	e124	141	e195	240	e380	521	1320	141	23	1.8
16	47	126	e133	156	209	260	e365	513	1460	131	22	2.0
17	51	133	e129	167	230	257	e360	542	1570	121	20	2.3
18	49	132	e123	168	310	274	e355	493	1640	109	18	2.0
19	51	125	e115	e159	303	285	e352	450	1730	101	16	2.5
20	55	116	e110	e165	256	312	e359	444	1750	95	14	2.8
21	54	125	e106	e168	244	337	e390	416	1720	82	10	3.1
22	57	127	e112	e185	232	344	e430	440	1640	74	9.6	3.0
23	62	151	e110	e190	214	332	e500	443	1520	69	11	3.3
24	71	157	e117	e187	209	324	e580	508	1410	61	9.9	3.4
25	92	141	e122	e182	242	318	e575	742	1300	53	9.5	3.5
26	111	141	149	e179	261	314	e490	1070	1290	46	11	3.5
27	113	149	152	e176	220	307	e395	1300	1310	39	5.9	3.5
28	106	155	152	e174	213	303	435	1400	1200	33	4.8	3.8
29	99	166	150	e172	---	300	466	1730	1010	29	4.0	4.4
30	98	177	153	e171	---	295	557	2070	865	27	2.8	4.8
31	97	---	147	e180	---	293	---	2260	---	25	1.9	---
TOTAL	2002	3740	3895	5101	5934	8762	11763	24583	49335	6297	436.5	69.9
MEAN	64.6	125	126	165	212	283	392	793	1644	203	14.1	2.33
MAX	113	177	184	190	310	344	580	2260	2670	840	28	4.8
MIN	41	97	76	122	145	220	282	416	865	25	1.9	1.2
AC-FT	3970	7420	7730	10120	11770	17380	23330	48760	97860	12490	866	139

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1999, BY WATER YEAR (WY)

	MEAN	26.7	52.3	65.7	98.8	200	373	532	683	820	206	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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1895 - 1999

ANNUAL TOTAL	143905	121918.4	
ANNUAL MEAN	394	334	258
HIGHEST ANNUAL MEAN			1101
LOWEST ANNUAL MEAN			35.6
HIGHEST DAILY MEAN	2220	Jun 5	6530
LOWEST DAILY MEAN	12	Sep 6	.00
ANNUAL SEVEN-DAY MINIMUM	12	Sep 4	.00
INSTANTANEOUS PEAK FLOW			2840
INSTANTANEOUS PEAK STAGE		7.13	12.30
ANNUAL RUNOFF (AC-FT)	285400	241800	186600
10 PERCENT EXCEEDS	1230	867	748
50 PERCENT EXCEEDS	159	160	74
90 PERCENT EXCEEDS	43	7.8	2.2

e Estimated

HUMBOLDT RIVER BASIN

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. See schematic diagram of Humboldt River Basin.

REVISED RECORD.--NV-92-1:1991.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s, June 3, 1995, gage height, 5.82 ft; minimum daily, 2.2 ft³/s, September 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s, May 28, gage height, 3.83 ft; minimum daily, 5.9 ft³/s, September 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	54	43	e25	e62	67	102	202	985	447	32	8.8
2	30	48	41	e26	e66	67	104	193	1030	417	32	10
3	30	47	37	e26	73	65	108	206	1130	370	33	11
4	31	47	37	e27	73	64	106	227	996	319	28	11
5	31	45	30	e27	83	58	110	222	841	276	29	12
6	30	44	28	e28	92	58	123	211	866	248	31	11
7	30	48	e31	e28	105	62	150	210	790	240	31	9.0
8	28	56	e31	e28	120	62	166	219	720	229	24	7.2
9	27	54	e31	e28	127	67	179	225	687	209	19	7.1
10	27	51	e31	e28	111	62	172	223	677	199	18	6.5
11	27	53	30	e29	99	73	164	221	695	177	25	6.6
12	27	54	31	e34	88	71	159	212	746	158	22	6.4
13	27	51	31	e39	85	73	180	214	817	152	19	5.9
14	27	51	35	e45	82	79	199	211	964	152	16	6.9
15	28	50	34	51	79	77	201	208	1140	148	15	7.5
16	30	47	33	60	88	70	203	203	1200	132	16	7.4
17	30	40	e33	62	114	67	207	188	1120	124	18	7.3
18	31	40	e28	67	116	67	216	192	1050	117	18	7.1
19	30	38	e24	75	106	70	222	203	967	105	19	7.3
20	30	35	e23	93	88	77	217	232	859	93	15	8.6
21	30	37	e21	100	85	85	225	268	827	80	14	8.4
22	31	37	e20	93	73	92	218	339	746	77	13	8.1
23	32	36	e24	103	73	92	206	523	738	71	12	8.2
24	32	35	e15	73	71	97	184	853	670	58	12	7.7
25	44	34	e15	64	72	102	174	957	624	49	11	7.6
26	53	35	e18	62	65	112	175	1080	545	38	11	7.1
27	47	36	e22	63	66	113	179	1230	476	34	11	8.0
28	42	39	e27	e54	66	107	182	1420	438	31	11	9.3
29	47	40	e26	e43	---	102	187	1420	418	31	9.7	10
30	57	44	e25	e35	---	98	196	1320	436	33	8.5	9.9
31	56	---	e25	e59	---	99	---	1090	---	36	7.7	---
TOTAL	1053	1326	880	1575	2428	2455	5214	14722	24198	4850	580.9	248.9
MEAN	34.0	44.2	28.4	50.8	86.7	79.2	174	475	807	156	18.7	8.30
MAX	57	56	43	103	127	113	225	1420	1200	447	33	12
MIN	27	34	15	25	62	58	102	188	418	31	7.7	5.9
AC-FT	2090	2630	1750	3120	4820	4870	10340	29200	48000	9620	1150	494

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	12.7	19.6	17.8	31.3	53.7	107	156	405	513	146	18.4	8.55
MAX	34.0	44.2	31.1	73.2	148	189	266	689	1096	453	48.0	19.3
(WY)	1999	1999	1997	1997	1996	1996	1996	1998	1998	1998	1995	1998
MIN	6.43	10.7	9.26	10.0	18.6	21.5	29.2	119	43.1	8.54	3.38	2.78
(WY)	1991	1991	1990	1990	1994	1991	1991	1991	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1989 - 1999

	1998	1999	1989-1999
ANNUAL TOTAL	89034	59530.8	
ANNUAL MEAN	244	163	127
HIGHEST ANNUAL MEAN			239
LOWEST ANNUAL MEAN			36.1
HIGHEST DAILY MEAN	1490	1420	2010
LOWEST DAILY MEAN	12	5.9	2.2
ANNUAL SEVEN-DAY MINIMUM	13	6.7	2.5
INSTANTANEOUS PEAK FLOW		1540	2710
INSTANTANEOUS PEAK STAGE		3.83	5.82
ANNUAL RUNOFF (AC-FT)	176600	118100	92110
10 PERCENT EXCEEDS	858	459	355
50 PERCENT EXCEEDS	65	60	31
90 PERCENT EXCEEDS	19	12	7.1

e Estimated

HUMBOLDT RIVER BASIN

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV

LOCATION.--Lat 40°41'06", long 115°48'45", in NW 1/4 SW 1/4 sec.5, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank, 1.5 mi upstream from Dixie Creek, and 10.5 mi south of Elko.

DRAINAGE AREA.--1,150 mi², approximately.

PERIOD OF RECORD.--October 1948 to September 1982, July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation above station. Flow regulated by South Fork Reservoir, approximately 2.0 mi upstream, since December, 1987. Records not adjusted for storage. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,100 ft³/s, January 12, 1979, gage height, 6.80 ft; maximum discharge after dam, 1,600 ft³/s, May 6, 1995, gage height, 5.14 ft; minimum daily prior to dam, 0.10 ft³/s, September 9, 1959; minimum daily after dam, 1.7 ft³/s, September 15, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 968 ft³/s, June 4, gage height, 4.41 ft; minimum daily, 8.8 ft³/s, August 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	21	49	43	75	78	92	167	810	247	9.0	9.4
2	24	21	48	43	75	78	92	167	952	270	9.1	9.7
3	33	20	50	43	75	78	92	168	954	358	9.6	10
4	32	20	50	43	76	78	92	193	960	345	9.7	10
5	32	20	48	43	77	78	93	222	933	336	9.6	10
6	29	20	49	45	78	78	95	222	906	274	9.3	10
7	29	21	48	46	78	78	95	222	843	199	9.3	10
8	29	21	48	46	78	78	95	221	529	167	9.3	11
9	29	21	47	46	78	78	97	221	331	124	9.4	11
10	29	32	46	46	77	78	99	221	340	122	9.7	11
11	28	49	47	47	75	78	100	221	365	122	9.3	11
12	29	48	46	44	74	78	100	221	395	121	9.3	12
13	29	47	46	40	75	78	103	222	396	121	9.5	12
14	28	47	47	40	75	78	103	222	506	122	9.5	12
15	28	47	48	42	76	78	100	222	651	109	9.5	11
16	28	47	48	45	77	78	97	222	720	86	9.5	11
17	28	47	48	45	78	78	97	222	826	93	9.4	11
18	25	47	48	45	84	78	97	222	867	92	9.3	11
19	25	47	48	62	92	78	96	221	864	62	9.4	11
20	24	47	46	78	92	78	96	222	856	67	9.3	11
21	25	47	47	78	92	78	121	222	639	67	9.5	12
22	25	49	47	77	92	78	170	222	455	68	9.5	12
23	24	48	46	77	92	78	225	222	459	69	9.4	12
24	24	49	46	76	92	78	278	494	470	69	9.2	12
25	26	49	46	76	92	82	278	811	465	69	9.1	12
26	24	49	48	76	87	92	278	914	461	69	9.3	13
27	24	49	48	77	78	92	266	903	456	46	9.3	13
28	23	49	49	75	78	92	203	921	446	22	9.4	14
29	23	49	49	73	---	92	165	945	280	17	9.3	14
30	23	49	49	74	---	92	165	945	297	12	8.8	14
31	22	---	49	75	---	92	---	948	---	9.1	9.1	---
TOTAL	822	1177	1479	1766	2268	2506	4080	11788	18432	3954.1	289.9	343.1
MEAN	26.5	39.2	47.7	57.0	81.0	80.8	136	380	614	128	9.35	11.4
MAX	33	49	50	78	92	92	278	948	960	358	9.7	14
MIN	21	20	46	40	74	78	92	167	280	9.1	8.8	9.4
AC-FT	1630	2330	2930	3500	4500	4970	8090	23380	36560	7840	575	681

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

	MEAN	13.5	15.6	20.7	30.6	49.9	116	150	363	495	150	29.9	12.9
MAX	26.5	39.2	47.7	102	138	244	311	661	1068	518	103	26.8	
(WY)	1999	1999	1999	1997	1996	1996	1996	1998	1998	1998	1997	1997	
MIN	4.55	7.67	8.45	10.9	18.5	24.4	36.8	105	27.8	8.60	5.97	3.12	
(WY)	1991	1993	1991	1991	1994	1991	1991	1991	1992	1992	1992	1988	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1988 - 1999

ANNUAL TOTAL	87202	48905.1	
ANNUAL MEAN	239	134	121
HIGHEST ANNUAL MEAN			235
LOWEST ANNUAL MEAN			36.1
HIGHEST DAILY MEAN	1270	Jun 17	1500
LOWEST DAILY MEAN	12	Jan 7	1.7
ANNUAL SEVEN-DAY MINIMUM	13	Jan 2	2.6
INSTANTANEOUS PEAK FLOW			1600
INSTANTANEOUS PEAK STAGE			5.14
ANNUAL RUNOFF (AC-FT)	173000	97000	87560
10 PERCENT EXCEEDS	888	342	325
50 PERCENT EXCEEDS	50	69	29
90 PERCENT EXCEEDS	17	10	8.2

HUMBOLDT RIVER BASIN

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK, NEAR ELKO, NV--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1982, BY WATER YEAR (WY)

MEAN	15.2	24.1	29.0	44.7	61.4	88.0	157	360	466	130	19.6	11.4
MAX	41.3	46.4	75.3	177	238	180	633	845	1054	507	77.3	66.6
(WY)	1977	1971	1951	1979	1962	1972	1952	1952	1975	1975	1965	1982
MIN	3.83	5.82	10.2	9.00	11.0	27.5	29.9	55.7	65.2	5.75	.76	1.20
(WY)	1955	1955	1955	1955	1955	1963	1959	1959	1966	1966	1959	1954

SUMMARY STATISTICS

WATER YEARS 1949 - 1982

ANNUAL MEAN	117	
HIGHEST ANNUAL MEAN	227	1975
LOWEST ANNUAL MEAN	27.9	1959
HIGHEST DAILY MEAN	2400	Feb 11 1962
LOWEST DAILY MEAN	.10	Sep 9 1959
ANNUAL SEVEN-DAY MINIMUM	.19	Sep 5 1959
INSTANTANEOUS PEAK FLOW	3100	Jan 12 1979
INSTANTANEOUS PEAK STAGE	6.80	Jan 12 1979
ANNUAL RUNOFF (AC-FT)	84800	
10 PERCENT EXCEEDS	345	
50 PERCENT EXCEEDS	37	
90 PERCENT EXCEEDS	7.7	

HUMBOLDT RIVER BASIN

10321000 HUMBOLDT RIVER NEAR CARLIN, NV

LOCATION.--Lat 40°43'40", long 116°00'30", in SE 1/4 SE 1/4 sec.21, T.33 N., R.53 E., Elko County, Hydrologic Unit 16040101, on right bank, 1.0 mi downstream from Tonka Creek, 5 mi upstream from Susie Creek, 5.5 mi east of Carlin, 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 fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,250 ft³/s, May 17, 1984, gage height, 10.04 ft, maximum gage height, 10.21 ft, February 14, 1962; minimum daily, 0.20 ft³/s, August 13, 1959.

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. See schematic diagram of Humboldt River Basin.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft³/s, June 6, gage height, 6.49 ft; minimum daily, 14 ft³/s, September 16, 22-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	113	177	e160	e190	320	394	701	2020	759	63	24
2	74	111	178	146	197	352	399	770	2190	744	58	25
3	81	112	179	145	211	412	393	876	2230	753	55	24
4	89	116	186	148	229	410	396	926	2210	735	52	22
5	88	117	176	159	239	417	400	999	2410	687	50	23
6	87	116	e165	145	247	418	411	1030	2570	632	48	22
7	87	117	e161	165	249	373	435	971	2470	489	46	22
8	93	120	e159	151	265	347	472	912	2160	460	44	21
9	90	123	e159	145	312	340	515	849	1870	374	39	17
10	87	126	e157	148	332	332	528	805	1710	349	36	18
11	85	141	e155	148	283	326	501	776	1510	349	36	18
12	84	152	e156	156	238	318	493	741	1440	326	35	17
13	83	150	e154	157	253	316	507	732	1380	312	35	17
14	83	150	e145	141	265	315	511	707	1360	309	31	16
15	82	150	e140	158	280	320	487	715	1490	302	28	15
16	85	152	e140	174	297	326	476	714	1480	269	27	14
17	84	153	e136	184	314	335	452	706	1630	255	30	15
18	85	154	e130	190	336	333	445	714	1710	247	30	15
19	84	155	e130	200	405	340	455	681	1780	230	38	15
20	84	153	e129	246	394	352	461	647	1790	193	35	16
21	85	151	e129	280	361	382	465	633	1730	190	34	15
22	88	155	e130	259	340	406	554	614	1470	181	33	14
23	86	152	e130	250	327	416	620	604	1410	169	31	14
24	87	162	e130	229	322	404	757	683	1340	163	31	14
25	97	167	e129	214	326	401	776	1060	1290	157	30	14
26	102	168	e121	e200	352	414	770	1280	1240	151	28	14
27	107	168	e130	e190	355	420	706	1390	1180	143	28	15
28	116	169	e138	e173	324	424	653	1540	1100	108	29	15
29	117	174	e154	166	---	422	588	1690	972	90	27	16
30	115	178	e175	e173	---	409	624	1790	811	77	25	17
31	113	---	e175	e180	---	403	---	1930	---	70	24	---
TOTAL	2806	4325	4653	5580	8243	11503	15644	29186	49953	10273	1136	524
MEAN	90.5	144	150	180	294	371	521	941	1665	331	36.6	17.5
MAX	117	178	186	280	405	424	776	1930	2570	759	63	25
MIN	74	111	121	141	190	315	393	604	811	70	24	14
AC-FT	5570	8580	9230	11070	16350	22820	31030	57890	99080	20380	2250	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	MEAN	45.2	76.1	98.5	142	272	523	729	1011	1283	364	54.7	26.8
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1944 - 1999
ANNUAL TOTAL	238609	143826	
ANNUAL MEAN	654	394	385
HIGHEST ANNUAL MEAN			1730
LOWEST ANNUAL MEAN			63.6
HIGHEST DAILY MEAN	3270	2570	8090
LOWEST DAILY MEAN	48	14	.20
ANNUAL SEVEN-DAY MINIMUM	50	14	.30
INSTANTANEOUS PEAK FLOW		2660	8250
INSTANTANEOUS PEAK STAGE		6.49	10.21
ANNUAL RUNOFF (AC-FT)	473300	285300	278700
10 PERCENT EXCEEDS	2110	1010	1100
50 PERCENT EXCEEDS	243	184	119
90 PERCENT EXCEEDS	66	28	14

e Estimated

HUMBOLDT RIVER BASIN
10321590 SUSIE CREEK AT CARLIN, NV

LOCATION.--Lat 40°43'34", long 116°04'37", in SE 1/4 SW 1/4 sec.24, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, on left bank, approximately 200 ft above westbound Interstate 80 bridge, and 1 mi north of Carlin.

DRAINAGE AREA.--194 mi².

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,910 ft above sea level, from topographic map.

REMARKS.--Records poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561 ft³/s, March 16, 1997, gage height, 6.56 ft; no flow many days, most years.

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, 115 ft³/s, February 17, gage height, 3.28 ft, no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	3.5	e3.5	e4.0	e9.0	e48	e8.1	18	5.3	.24	.00	.00
2	3.7	4.0	e3.4	e3.8	14	e32	e8.3	20	7.5	.13	.00	.00
3	2.8	3.3	e3.4	e3.7	15	e31	e8.8	e37	10	.07	.00	.00
4	3.0	3.2	e3.5	e3.6	8.5	e37	e6.7	e45	9.4	.01	.00	.00
5	3.1	3.2	e3.9	e3.8	7.1	e18	e9.3	e38	7.6	.00	.00	.00
6	2.7	3.2	e3.6	e4.2	7.7	e12	e10	e32	8.7	.00	.00	.00
7	2.5	3.5	e3.8	e4.3	9.5	e12	e10	e24	9.1	.00	.00	.00
8	2.5	3.8	e4.0	e3.7	25	e9.6	e11	e21	7.2	.00	.00	.00
9	2.6	3.3	e4.5	e3.6	18	e9.9	e9.6	e19	6.3	.00	.00	.00
10	2.7	3.2	e4.1	e3.5	30	e8.8	e9.1	e18	5.4	.00	.00	.00
11	2.9	3.8	e3.9	e4.2	13	e9.3	e9.3	20	5.1	.00	.00	.00
12	2.8	3.6	e3.6	e4.3	e13	e8.3	e7.6	19	4.4	.00	.00	.00
13	2.7	3.4	e3.4	e4.3	e12	e8.1	e6.9	e16	4.1	.00	.00	.00
14	2.6	3.3	e3.6	e4.4	e12	e9.6	e6.9	e16	3.8	.00	.00	.00
15	3.0	3.4	e4.1	e4.4	e12	e12	e6.7	e15	3.2	.00	.00	.00
16	3.5	3.3	e3.7	e5.1	12	e12	e6.9	e15	2.9	.00	.00	.00
17	3.5	3.4	e3.1	e5.1	38	e18	e6.9	e15	2.6	.00	.00	.00
18	3.5	3.5	e2.8	e5.1	e27	e21	e6.9	12	2.3	.00	.00	.00
19	4.1	3.0	e2.4	e5.3	e17	e27	e6.9	10	2.1	.00	.00	.00
20	4.0	3.5	e2.2	e6.1	e7.4	e24	8.3	9.3	1.9	.00	.00	.00
21	3.8	2.9	e1.9	e7.0	e7.8	e22	8.8	9.1	1.6	.00	.00	.00
22	4.9	3.4	e1.8	e5.7	e6.9	e15	e7.8	8.2	1.4	.00	.00	.00
23	4.6	3.3	e1.7	e5.6	e6.3	e13	9.1	7.7	.98	.00	.00	.00
24	4.3	e3.4	e1.8	e4.5	e6.7	e12	8.6	7.6	.90	.00	.00	.00
25	8.1	e3.5	e2.1	e4.4	e28	e13	e8.3	7.7	.78	.00	.00	.00
26	7.1	e3.3	e2.5	e4.3	e14	14	8.6	7.6	.75	.00	.00	.00
27	5.1	e3.2	e3.1	e4.3	e8.3	e12	8.1	6.8	.95	.00	.00	.00
28	4.3	e3.2	e3.6	e4.3	e12	e9.3	e7.4	6.7	.80	.00	.00	.00
29	4.5	e3.4	e3.8	e4.3	---	e8.6	9.4	6.7	.58	.00	.00	.00
30	4.0	e3.6	e3.9	e4.6	---	e8.3	10	6.3	.42	.00	.00	.00
31	3.3	---	e4.1	e5.2	---	e8.1	---	5.8	---	.00	.00	---
TOTAL	117.5	101.6	100.8	140.7	397.2	502.9	250.3	499.5	118.06	0.45	0.00	0.00
MEAN	3.79	3.39	3.25	4.54	14.2	16.2	8.34	16.1	3.94	.015	.000	.000
MAX	8.1	4.0	4.5	7.0	38	48	11	45	10	.24	.00	.00
MIN	2.5	2.9	1.7	3.5	6.3	8.1	6.7	5.8	.42	.00	.00	.00
AC-FT	233	202	200	279	788	998	496	991	234	.9	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	1.46	2.37	4.11	10.4	9.81	51.3	22.4	13.4
MAX	3.79	4.25	14.5	52.8	19.6	148	55.5	33.0
(WY)	1999	1998	1997	1996	1995	1994	1993	1992
MIN	.000	1.23	.22	.18	.18	5.97	3.01	.34
(WY)	1995	1995	1993	1993	1993	1994	1994	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

	1998	1999	1992-1999
ANNUAL TOTAL	3911.05	2229.01	
ANNUAL MEAN	10.7	6.11	10.2
HIGHEST ANNUAL MEAN			22.1
LOWEST ANNUAL MEAN			1.80
HIGHEST DAILY MEAN	65 May 17	48 Mar 1	424 Mar 17 1997
LOWEST DAILY MEAN	.00 Aug 6	.00 Jul 5	.00 May 23 1992
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 6	.00 Jul 5	.00 May 23 1992
INSTANTANEOUS PEAK FLOW		115 Feb 17	561 Mar 16 1997
INSTANTANEOUS PEAK STAGE		3.28 Feb 17	6.56 Mar 16 1997
ANNUAL RUNOFF (AC-FT)	7760	4420	7420
10 PERCENT EXCEEDS	33	14	23
50 PERCENT EXCEEDS	4.0	3.8	2.2
90 PERCENT EXCEEDS	.22	.00	.00

e Estimated

HUMBOLDT RIVER BASIN

10321925 SIMON CREEK NEAR HIGHWAY 766 NEAR CARLIN, NV

LOCATION.--Lat 40°50'35", long 116°13'24", in NW 1/4 NE 1/4 sec.22, T.34 S., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, above culvert on Highway 766, 11.1 mi northwest of Carlin.

DRAINAGE AREA--46.0 mi².

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water-stage recorder. Elevation at gage is 5,150 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, January 2, 1997, gage height, 5.55 ft; backwater from debris in culvert; maximum gage height, 6.41 ft. January 17, 1998, ice jam; minimum daily, 0.22 ft³/s, August 23, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7.3 ft³/s, February 7, gage height, 2.30 ft, maximum gage height 3.14 ft, February 17, backwater from ice jam; minimum daily, 0.24 ft³/s, August 2, September 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.78	.79	.89	.97	1.1	1.3	1.3	.85	.74	.25	.31
2	.96	.75	.76	.82	1.0	1.0	1.4	1.4	1.4	.70	.24	.31
3	.94	.74	.75	.81	1.1	1.1	1.4	2.8	1.2	.69	.25	.37
4	1.0	.72	.75	.80	1.1	1.1	1.3	2.5	1.1	.67	.26	.35
5	1.1	.74	.65	.80	1.1	1.1	1.4	1.3	1.1	.68	.30	.32
6	1.1	.77	.70	.79	1.1	1.1	1.4	1.3	1.4	.67	.31	.32
7	1.1	.79	.75	.78	2.3	1.1	1.4	1.3	1.1	.63	.34	.32
8	1.3	.79	.78	.79	1.6	1.1	1.4	1.2	1.0	.60	.35	.30
9	1.3	.74	.77	.82	1.3	1.2	1.4	1.2	1.0	.62	.34	.31
10	1.5	.74	.69	.81	1.1	1.2	1.5	1.2	1.0	.65	.34	.30
11	1.4	.79	.62	.68	1.0	1.1	1.5	1.2	1.0	.61	.36	.33
12	1.4	.80	.61	.72	1.1	1.1	1.5	1.2	.97	.69	.36	.34
13	.95	.79	.60	.76	1.1	1.1	1.5	1.1	.95	.64	.34	.32
14	1.1	.78	.64	.80	1.2	1.2	1.3	1.2	.92	.69	.33	.32
15	1.1	.82	.64	.92	1.1	1.3	1.2	1.3	.90	.65	.33	.29
16	1.0	.80	.65	1.3	1.2	1.2	1.2	1.3	.85	.61	.35	.30
17	.99	.80	.77	.96	1.3	1.2	1.1	1.3	.84	.52	.37	.31
18	.97	.75	.77	.98	1.4	1.2	1.1	1.2	.81	.49	.36	.31
19	.90	.71	.76	1.2	1.2	1.3	1.2	1.2	.80	.48	.37	.30
20	.87	.73	.72	1.7	1.1	1.3	1.1	1.2	.78	.42	.35	.30
21	.76	.82	.67	1.6	1.1	1.3	1.0	1.2	.78	.40	.37	.28
22	.77	.84	.60	.98	1.1	1.3	1.0	1.1	.78	.34	.38	.26
23	.83	.76	.56	.92	1.3	1.3	.99	1.0	.74	.30	.34	.28
24	.79	.78	.49	.91	1.4	1.5	1.1	1.0	.72	.29	.33	.26
25	.95	.73	.54	.89	1.3	1.6	1.1	1.0	.69	.30	.34	.26
26	.82	.70	.78	.90	1.1	1.6	1.0	.97	.72	.26	.33	.26
27	.75	.75	.83	.91	1.1	1.4	1.0	.97	.73	.26	.30	.25
28	.79	.80	.94	.89	1.1	1.3	1.0	.94	.74	.28	.33	.26
29	.78	.88	.86	.91	---	1.3	1.1	.92	.74	.29	.31	.24
30	.79	.86	.83	.90	---	1.3	1.5	.91	.75	.27	.29	.24
31	.72	---	.90	.96	---	1.4	---	.87	---	.27	.30	---
TOTAL	30.83	23.25	22.17	28.90	33.87	38.4	37.39	38.58	27.36	15.71	10.12	8.92
MEAN	.99	.77	.72	.93	1.21	1.24	1.25	1.24	.91	.51	.33	.30
MAX	1.5	.88	.94	1.7	2.3	1.6	1.5	2.8	1.4	.74	.38	.37
MIN	.72	.70	.49	.68	.97	1.0	.99	.87	.69	.26	.24	.24
AC-FT	61	46	44	57	67	76	74	77	54	31	20	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	.76	.69	1.16	2.54	2.01	4.30	2.49	2.30	1.28	.59	.42	.49
MAX	.99	.77	2.00	3.47	2.73	9.20	3.89	4.24	1.73	.90	.61	.82
(WY)	1999	1999	1997	1998	1997	1997	1998	1998	1998	1998	1998	1998
MIN	.53	.60	.72	.93	1.21	1.24	1.25	1.24	.91	.37	.31	.30
(WY)	1998	1998	1999	1999	1999	1999	1999	1999	1999	1997	1997	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1997 - 1999
ANNUAL TOTAL	690.21	315.50	
ANNUAL MEAN	1.89	.86	1.35
HIGHEST ANNUAL MEAN			1.84
LOWEST ANNUAL MEAN			.86
HIGHEST DAILY MEAN	23 Jan 17	2.8 May 3	38 Mar 8 1997
LOWEST DAILY MEAN	.47 Aug 29	.24 Aug 2	.22 Aug 23 1997
ANNUAL SEVEN-DAY MINIMUM	.48 Aug 27	.25 Sep 24	.23 Aug 18 1997
INSTANTANEOUS PEAK FLOW		7.3 Feb 7	7.3 Feb 7 1999
INSTANTANEOUS PEAK STAGE		2.30 Feb 7	2.30 Feb 7 1999
ANNUAL RUNOFF (AC-FT)	1370	626	980
10 PERCENT EXCEEDS	4.1	1.3	3.2
50 PERCENT EXCEEDS	1.2	.83	1.0
90 PERCENT EXCEEDS	.63	.31	.34

e Estimated

HUMBOLDT RIVER BASIN

10321940 MAGGIE CREEK ABOVE MAGGIE CREEK CANYON NEAR CARLIN, NV

LOCATION.--Lat 40°49'30", long 116°13'21", in SE 1/4 NE 1/4 sec.22, T.34 S., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, approximately 10.0 mi northwest of Carlin.

DRAINAGE AREA--332 mi².

PERIOD OF RECORD.--January 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,125 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 559 ft³/s March 22, 1997, gage height, 5.02 ft; minimum daily, 2.5 ft³/s August 31, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 96 ft³/s, May 9-11, gage height, 3.36 ft; minimum daily, 2.5 ft³/s, August 31.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	9.0	e9.7	11	13	20	27	64	56	8.1	4.1	2.8
2	6.9	8.9	9.4	10	13	20	27	62	69	7.9	3.9	3.1
3	6.9	8.8	9.4	9.8	13	21	27	77	83	7.1	3.9	3.0
4	7.2	8.7	9.5	9.9	14	22	26	83	73	6.9	3.9	2.9
5	7.2	8.8	9.6	10	14	22	27	76	62	6.8	3.9	2.9
6	7.2	8.9	8.7	11	14	21	27	77	66	6.7	3.9	2.8
7	7.2	9.1	9.8	11	16	22	27	84	65	6.6	3.9	3.0
8	7.2	9.1	9.4	10	19	21	27	88	54	6.6	3.9	3.1
9	7.2	9.0	8.7	10	18	21	28	93	47	6.5	3.7	3.1
10	7.2	e9.1	8.0	10	18	21	27	94	44	6.3	3.7	3.1
11	7.5	e9.1	9.0	11	25	20	25	93	38	6.2	3.9	3.2
12	7.5	9.1	9.5	11	16	20	25	90	35	5.9	3.8	3.2
13	7.5	9.1	9.3	11	15	19	25	92	32	5.8	3.5	3.2
14	7.6	e9.1	9.6	11	16	19	24	90	29	5.8	3.3	3.3
15	7.7	e9.1	9.4	11	15	19	25	88	26	5.7	3.3	3.4
16	7.7	9.1	9.3	12	16	20	26	85	24	5.3	3.3	3.4
17	7.6	9.2	9.3	12	50	21	27	78	22	5.1	3.3	e3.3
18	7.7	9.2	9.3	12	29	22	29	72	20	5.1	3.0	e3.4
19	7.7	9.1	9.1	13	23	24	32	70	19	5.0	3.2	e3.6
20	7.7	e9.2	8.1	15	19	26	36	70	18	5.1	3.0	e3.7
21	7.8	9.3	e7.0	16	19	29	40	72	16	5.0	3.0	e3.8
22	8.3	9.5	e7.5	14	18	28	42	73	15	4.8	3.0	e3.9
23	8.1	e9.4	e7.2	14	19	27	41	72	14	4.8	2.9	e3.8
24	8.2	9.5	e8.3	13	20	26	40	74	13	4.6	2.8	e3.6
25	8.9	e9.1	9.3	13	22	26	38	81	12	4.5	2.8	e3.8
26	8.6	9.4	10	13	19	27	38	79	12	4.4	2.7	e4.6
27	8.4	9.4	10	13	19	28	40	74	11	4.3	2.7	e6.1
28	8.5	9.6	11	e13	19	29	42	69	10	4.4	2.9	e6.9
29	8.5	9.9	11	e13	---	28	44	69	9.7	4.5	2.8	e7.7
30	8.5	e9.8	10	e13	---	28	55	66	8.9	4.3	2.6	e8.4
31	8.4	---	11	14	---	28	---	61	---	4.2	2.5	---
TOTAL	239.7	275.6	286.4	370.7	531	725	964	2416	1003.6	174.3	103.1	116.1
MEAN	7.73	9.19	9.24	12.0	19.0	23.4	32.1	77.9	33.5	5.62	3.33	3.87
MAX	8.9	9.9	11	16	50	29	55	94	83	8.1	4.1	8.4
MIN	6.9	8.7	7.0	9.8	13	19	24	61	8.9	4.2	2.5	2.8
AC-FT	475	547	568	735	1050	1440	1910	4790	1990	346	204	230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	1997	1998	1999	1997	1998	1999	1997	1998	1999	1997	1998	1999
MEAN	7.67	8.93	8.56	18.5	24.8	97.8	106	135	51.9	9.37	5.05	5.17
MAX	7.73	9.19	9.24	25.1	36.1	214	159	223	89.2	14.2	6.51	5.84
(WY)	1999	1999	1999	1998	1997	1997	1998	1998	1998	1998	1998	1998
MIN	7.61	8.67	7.88	12.0	19.0	23.4	32.1	77.9	33.0	5.62	3.33	3.87
(WY)	1998	1998	1998	1999	1999	1999	1999	1999	1997	1999	1999	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1997 - 1999
ANNUAL TOTAL	18052.5	7205.5	
ANNUAL MEAN	49.5	19.7	34.5
HIGHEST ANNUAL MEAN			49.3
LOWEST ANNUAL MEAN			19.7
HIGHEST DAILY MEAN	313	May 17	505
LOWEST DAILY MEAN	4.8	Sep 3	2.5
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 30	2.7
INSTANTANEOUS PEAK FLOW		96	559
INSTANTANEOUS PEAK STAGE		3.36	5.02
ANNUAL RUNOFF (AC-FT)	35810	14290	25010
10 PERCENT EXCEEDS	163	61	131
50 PERCENT EXCEEDS	15	10	13
90 PERCENT EXCEEDS	6.3	3.5	5.1

e Estimated

HUMBOLDT RIVER BASIN

10321950 MAGGIE CREEK AT MAGGIE CREEK CANYON NEAR CARLIN, NV

LOCATION.--Lat 40°48'12", long 116°11'57", in NE 1/4 SE 1/4 sec.26, T.34 N., R.51 E., Eureka County, Hydrologic Unit 16040101, on right bank, approximately 8.0 mi northwest of Carlin.

DRAINAGE AREA.--334 mi².

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 fair except for estimated daily discharges, which are poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 591 ft³/s, March 27, 1993, gage height, 4.58 ft, maximum gage height, 4.67 ft, March 22, 1997; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 108 ft³/s, May 10, 11, gage height, 3.29 ft; minimum daily, 1.3 ft³/s, August 23, September 1, 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	7.4	9.7	9.7	e12	e18	23	64	37	8.5	3.1	1.3
2	5.3	7.7	9.7	e9.5	e11	e18	23	63	47	8.5	3.1	1.4
3	5.4	7.5	9.7	e9.0	e11	e18	21	79	66	7.8	3.0	1.4
4	5.5	7.8	9.7	e8.5	e11	e19	22	94	58	6.8	3.0	1.4
5	5.5	8.0	7.2	8.3	e12	e19	21	89	48	6.5	2.9	1.3
6	5.4	8.3	9.2	9.1	e12	e19	22	86	54	6.6	2.9	1.4
7	5.5	8.0	8.4	9.3	e14	e19	22	92	50	6.4	2.8	1.6
8	5.7	8.0	e10	e8.4	e16	e19	22	99	38	6.0	2.1	1.6
9	5.8	7.8	5.8	e8.3	e16	e18	23	105	33	5.9	2.0	1.7
10	5.6	7.5	8.4	e8.2	e15	18	23	108	31	5.9	1.9	1.8
11	5.7	7.8	14	e8.2	e14	17	21	107	29	5.6	1.7	1.8
12	5.9	7.8	11	e8.4	e14	16	20	102	27	5.5	1.6	1.7
13	5.7	7.7	16	8.6	e13	15	20	102	24	5.3	1.6	1.6
14	5.9	7.9	11	e9.0	e14	14	19	102	22	5.3	1.4	1.5
15	6.1	7.8	12	9.7	e14	14	20	102	20	5.1	1.4	1.6
16	6.3	7.5	11	11	e14	15	22	99	19	4.6	1.4	1.7
17	6.3	7.5	11	11	e34	15	23	89	18	4.4	1.4	1.8
18	6.3	8.2	e12	11	e24	16	24	78	17	4.4	1.5	1.9
19	6.4	8.6	e8.5	12	e20	17	25	75	16	4.4	1.4	2.3
20	7.0	8.2	6.1	14	e18	20	30	73	16	4.5	1.4	2.5
21	6.9	9.0	6.9	16	e17	26	37	74	15	4.4	1.4	2.7
22	7.1	9.6	8.7	18	e17	28	41	74	14	4.3	1.4	2.9
23	7.1	9.7	7.3	18	e16	27	40	72	14	4.1	1.3	3.0
24	7.2	9.7	9.8	14	e17	24	38	71	14	4.0	1.4	3.1
25	8.5	9.7	12	e14	e18	21	35	76	13	3.8	1.4	3.9
26	8.0	9.7	15	13	e18	21	31	77	12	3.7	1.4	3.9
27	7.9	9.7	14	e13	e17	24	34	66	12	3.6	1.5	4.8
28	7.7	9.3	14	12	e18	24	36	59	11	3.4	1.5	5.5
29	7.9	10	12	e12	---	23	41	56	10	3.7	1.5	5.8
30	7.4	11	10	e12	---	23	52	52	9.2	3.5	1.5	6.4
31	7.1	---	10	e12	---	23	---	45	---	3.3	1.4	---
TOTAL	199.7	254.4	320.1	345.2	447	608	831	2530	794.2	159.8	57.3	75.3
MEAN	6.44	8.48	10.3	11.1	16.0	19.6	27.7	81.6	26.5	5.15	1.85	2.51
MAX	8.5	11	16	18	34	28	52	108	66	8.5	3.1	6.4
MIN	5.3	7.4	5.8	8.2	11	14	19	45	9.2	3.3	1.3	1.3
AC-FT	396	505	635	685	887	1210	1650	5020	1580	317	114	149

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	3.72	5.08	5.93	11.9	13.7	65.8	69.2	65.4	21.7	3.40	1.43	1.88
MAX	8.09	9.16	10.3	44.6	32.0	200	171	180	76.0	11.2	3.81	4.48
(WY)	1990	1990	1999	1997	1997	1997	1996	1998	1998	1998	1998	1998
MIN	.000	.036	.21	.35	.63	8.01	7.04	2.47	.41	.003	.000	.000
(WY)	1993	1995	1995	1993	1993	1994	1991	1992	1992	1994	1991	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1989 - 1999
ANNUAL TOTAL	15547.2	6622.0	
ANNUAL MEAN	42.6	18.1	22.5
HIGHEST ANNUAL MEAN			48.5
LOWEST ANNUAL MEAN			3.18
HIGHEST DAILY MEAN	257	May 17	520
LOWEST DAILY MEAN	3.1	Sep 2	.00
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 29	.00
INSTANTANEOUS PEAK FLOW			591
INSTANTANEOUS PEAK STAGE			4.67
ANNUAL RUNOFF (AC-FT)	30840	13130	16270
10 PERCENT EXCEEDS	140	47	63
50 PERCENT EXCEEDS	14	10	6.9
90 PERCENT EXCEEDS	4.4	1.8	.00

e Estimated

HUMBOLDT RIVER BASIN

10322000 MAGGIE CREEK AT CARLIN, NV

LOCATION.--Lat 40°42'59", long 116°05'32", in NW 1/4 SE 1/4 sec.26, T.33 N., R.52 E., Elko county, Hydrologic Unit 16040101, on right bank, approximately 0.5 mi above confluence with the Humboldt River, and 0.5 mi east of Carlin.

DRAINAGE AREA.--396 mi².

PERIOD OF RECORD.--July 1913 to December 1921, April to May 1922, April 1923 to September 1924, April 1992 to current year.

REVISED RECORDS.--WDR NV-93-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,900 ft above sea level, from topographic map. Prior to April 1992, at several sites in immediate vicinity at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flows influenced by mine de-watering into creek 6.0 mi upstream since April 1994. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 800 ft³/s, May 7, 1922, gage height, 4.3 ft, (site and datum then in use); maximum gage height, 5.88 ft, March 27, 1993, (present datum); no flow some days during summer months, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge 2,440 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, 82 ft³/s, May 16, gage height, 2.44 ft; minimum daily, 2.1 ft³/s, several days in August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	27	29	26	29	31	35	45	52	20	3.5	3.2
2	24	26	29	25	27	31	35	50	52	19	3.4	4.0
3	12	26	28	24	31	32	34	58	66	19	3.3	3.7
4	20	26	26	24	30	34	34	66	62	17	3.2	2.3
5	21	26	24	24	30	34	37	63	54	17	3.0	2.3
6	19	26	25	24	31	34	41	62	55	17	3.0	2.3
7	20	24	24	25	34	35	38	62	58	16	2.8	2.3
8	19	26	24	26	39	32	41	70	50	15	2.8	2.3
9	21	25	22	24	40	31	42	75	45	14	2.8	2.3
10	20	25	20	25	36	31	41	78	39	14	2.8	2.3
11	18	26	23	25	28	30	39	77	35	15	2.8	2.1
12	17	26	25	26	29	30	39	72	31	16	2.7	2.1
13	11	26	24	25	30	29	38	72	28	15	2.6	2.1
14	15	26	25	23	31	29	38	72	28	7.8	2.5	2.1
15	25	26	24	26	30	29	40	71	36	6.2	2.5	2.1
16	24	27	24	25	31	29	36	72	33	5.8	2.5	2.1
17	18	27	25	26	52	30	31	67	31	5.2	2.3	2.4
18	23	27	25	26	51	31	32	63	30	5.0	2.3	2.1
19	27	28	23	27	40	31	33	61	29	5.0	2.3	2.2
20	26	27	21	29	36	34	33	60	28	4.8	2.3	2.1
21	27	27	e20	30	36	37	37	60	29	4.7	2.3	2.1
22	25	27	e22	29	34	38	39	61	27	4.6	2.3	2.1
23	25	27	e20	31	34	37	40	60	25	4.4	2.3	2.6
24	25	28	e21	31	35	36	36	63	25	4.4	2.2	3.0
25	26	28	22	29	38	37	32	70	23	4.2	2.1	3.0
26	26	27	23	26	34	36	31	71	24	4.2	2.3	3.4
27	25	28	24	25	29	37	32	68	23	3.9	2.1	3.2
28	25	28	25	22	30	38	31	65	22	3.9	2.1	3.2
29	25	28	25	24	---	44	32	64	21	3.7	2.1	3.2
30	27	28	26	27	---	50	36	63	20	3.7	2.1	3.3
31	27	---	27	30	---	28	---	57	---	3.6	2.1	---
TOTAL	687	799	745	809	955	1045	1083	2018	1081	299.1	79.4	77.5
MEAN	22.2	26.6	24.0	26.1	34.1	33.7	36.1	65.1	36.0	9.65	2.56	2.58
MAX	27	28	29	31	52	50	42	78	66	20	3.5	4.0
MIN	11	24	20	22	27	28	31	45	20	3.6	2.1	2.1
AC-FT	1360	1580	1480	1600	1890	2070	2150	4000	2140	593	157	154

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

	MEAN	8.52	11.2	11.0	17.8	26.2	77.9	101	93.2	27.3	6.87	4.88	4.79
MAX	30.1	39.4	42.6	82.6	72.5	225	223	422	84.7	32.6	24.1	18.9	
(WY)	1998	1997	1997	1997	1997	1997	1922	1922	1998	1998	1996	1998	
MIN	.000	.000	.000	.000	.099	1.96	8.71	.12	.068	.006	.000	.000	
(WY)	1993	1993	1993	1924	1993	1994	1994	1992	1992	1992	1919	1919	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1913 - 1999
ANNUAL TOTAL	23327	9678.0	
ANNUAL MEAN	63.9	26.5	31.6
HIGHEST ANNUAL MEAN			76.4
LOWEST ANNUAL MEAN			4.06
HIGHEST DAILY MEAN	260	May 17	750
LOWEST DAILY MEAN	10	Sep 2	.00
ANNUAL SEVEN-DAY MINIMUM	11	Aug 27	.00
INSTANTANEOUS PEAK FLOW		82	800
INSTANTANEOUS PEAK STAGE		2.44	5.88
ANNUAL RUNOFF (AC-FT)	46270	19200	22870
10 PERCENT EXCEEDS	168	52	90
50 PERCENT EXCEEDS	42	26	7.0
90 PERCENT EXCEEDS	16	2.5	.10

e Estimated

HUMBOLDT RIVER BASIN
10322150 MARYS CREEK AT CARLIN, NV

LOCATION.--Lat 40°42'38", long 116°07'30", in SE 1/4 SE 1/4 sec.28, T.33 N., R.52 E., Elko County, Hydrologic Unit 16040101, on left bank, 0.7 mi above confluence with Humboldt River, and 1.1 mi southeast of Carlin.

DRAINAGE AREA.--45.4 mi².

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.

REMARKS.--Records poor. Discharge affected by intermittent pumping for Carlin water system. See schematic diagram of Humboldt River Basin

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 530 ft³/s, March 17, 1993, gage height, 8.15 ft; minimum daily, 0.60 ft³/s, August 27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s, May 5, 26, maximum gage height, 3.84 ft, May 26; minimum daily, 2.5 ft³/s, June 27, July 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	5.6	4.7	6.8	4.7	6.5	4.9	7.6	12	2.7	4.0	6.1
2	6.3	5.1	4.7	6.6	4.4	5.7	e4.5	6.5	14	3.5	3.2	5.4
3	6.5	5.5	5.0	6.2	4.6	6.0	e4.5	12	16	3.6	4.8	5.9
4	6.4	5.5	4.8	6.0	4.3	5.2	4.5	15	15	4.5	4.6	5.8
5	6.4	5.7	4.9	6.3	4.6	4.6	4.6	18	14	3.6	5.0	5.6
6	7.2	5.8	5.2	6.2	4.6	4.9	4.2	17	9.5	3.5	3.6	4.8
7	8.4	6.1	5.5	6.4	4.3	5.3	3.8	12	9.2	3.3	4.1	4.8
8	8.9	6.2	5.5	6.9	4.5	5.9	5.5	11	9.3	3.6	4.5	5.1
9	9.0	6.2	5.4	6.3	4.3	5.8	5.3	9.1	11	3.6	4.0	5.5
10	8.4	6.3	5.5	6.0	4.0	5.7	5.6	8.1	9.2	3.9	4.4	5.5
11	7.7	6.8	5.6	6.4	3.9	6.0	5.2	9.1	7.5	4.2	4.0	5.8
12	8.0	6.6	5.6	6.9	4.1	6.1	5.0	e8.0	5.9	3.2	4.4	6.0
13	7.2	6.6	5.7	7.0	4.2	6.9	4.5	5.9	6.8	3.3	3.0	6.2
14	7.0	6.9	6.0	7.1	3.9	6.9	4.0	3.5	6.5	3.5	4.3	6.1
15	7.2	6.9	5.8	7.2	3.8	6.4	7.2	5.2	5.5	3.1	4.6	4.9
16	7.0	6.8	6.7	6.9	3.8	5.9	5.4	5.6	8.3	3.5	5.0	5.2
17	6.4	6.9	7.1	6.6	7.5	5.2	5.9	9.9	8.6	2.9	5.6	5.4
18	5.3	7.4	7.3	6.5	5.0	4.9	6.6	8.6	9.3	3.1	5.3	4.5
19	5.0	8.1	8.1	6.4	5.6	4.3	7.0	9.0	7.2	2.8	4.9	4.9
20	5.0	8.8	7.3	6.4	5.7	4.3	7.4	6.9	8.0	2.5	4.5	4.8
21	4.5	8.5	6.5	6.3	6.6	3.9	7.9	7.3	6.1	2.8	4.9	5.0
22	4.4	6.8	6.9	6.3	6.5	3.9	8.4	6.9	4.1	3.1	5.1	4.8
23	3.9	8.2	7.1	6.1	6.3	3.6	8.9	5.9	4.5	3.4	4.7	4.8
24	3.8	8.1	7.2	6.0	6.8	3.7	6.3	6.9	3.5	5.3	4.0	5.1
25	3.9	7.1	7.4	7.0	8.0	4.1	3.7	5.7	4.1	4.3	3.5	5.4
26	3.8	6.8	7.3	6.9	8.0	4.4	4.3	6.4	2.6	4.0	4.4	4.7
27	3.8	6.4	7.9	5.5	8.1	4.6	4.5	5.3	2.5	3.9	5.2	4.6
28	3.9	6.1	8.1	5.4	7.3	5.1	9.3	6.4	2.9	4.2	5.7	4.8
29	3.9	5.7	6.9	5.7	---	e4.7	12	8.4	3.0	4.2	5.3	4.4
30	4.2	4.3	6.8	5.3	---	e4.7	7.6	8.8	2.5	4.0	4.7	4.5
31	5.1	---	7.7	5.1	---	e4.5	---	10	---	4.3	5.8	---
TOTAL	185.1	197.8	196.2	196.7	149.4	159.7	178.5	266.0	228.6	111.4	141.1	156.4
MEAN	5.97	6.59	6.33	6.35	5.34	5.15	5.95	8.58	7.62	3.59	4.55	5.21
MAX	9.0	8.8	8.1	7.2	8.1	6.9	12	18	16	5.3	5.8	6.2
MIN	3.8	4.3	4.7	5.1	3.8	3.6	3.7	3.5	2.5	2.5	3.0	4.4
AC-FT	367	392	389	390	296	317	354	528	453	221	280	310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	4.31	5.45	4.19	5.67	5.91	13.2	7.34	6.23	4.07	3.21
MAX	6.39	8.90	6.84	14.8	16.6	43.9	19.6	17.6	7.62	4.17
(WY)	1998	1998	1996	1997	1996	1993	1998	1998	1999	1999
MIN	2.13	3.47	2.21	2.85	1.78	3.16	2.64	1.90	1.36	1.60
(WY)	1993	1992	1997	1993	1993	1994	1992	1992	1991	1991

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1990 - 1999

ANNUAL TOTAL	3430.7	2166.9	
ANNUAL MEAN	9.40	5.94	5.81
HIGHEST ANNUAL MEAN			9.54
LOWEST ANNUAL MEAN			2.75
HIGHEST DAILY MEAN	39 Jan 17	18 May 5	400 Mar 17 1993
LOWEST DAILY MEAN	3.3 Aug 26	2.5 Jun 27	.60 Aug 27 1991
ANNUAL SEVEN-DAY MINIMUM	3.6 Aug 6	2.8 Jun 26	.78 Jun 15 1991
INSTANTANEOUS PEAK FLOW		29 May 25	530 Mar 17 1993
INSTANTANEOUS PEAK STAGE		3.84 May 26	8.15 Mar 17 1993
ANNUAL RUNOFF (AC-FT)	6800	4300	4210
10 PERCENT EXCEEDS	22	8.3	8.6
50 PERCENT EXCEEDS	6.2	5.6	4.0
90 PERCENT EXCEEDS	4.0	3.8	2.3

e Estimated

HUMBOLDT RIVER BASIN
10322500 HUMBOLDT RIVER AT PALISADE, NV

LOCATION.--Lat 40°36'27" (revised), long 116°12'03" (revised), 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.--6,060 mi², revised.

PERIOD OF RECORD.--October 1902 to September 1906, and July 1911 to current year.

REVISED RECORDS.--WSP 1514, 1903-4, 1912, 1914. WDR NV-99-1: Drainage Area.

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 fair except for estimated daily discharges, which are poor. Diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft³/s, May 18, 1984, gage height, 10.08 ft; minimum daily, 2.0 ft³/s, August 25-28, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 17 ft, present datum, about February 28, 1910, from photographs and written statements of resident witnesses; discharge, about 17,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,960 ft³/s, June 6, gage height, 6.17 ft; minimum daily, 34 ft³/s, September 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	166	242	220	e239	402	454	714	2320	851	e70	41
2	121	163	242	202	259	427	456	778	2460	780	e65	44
3	102	160	244	188	272	467	453	919	2650	743	e62	45
4	120	162	247	176	289	490	451	1020	2560	785	e60	45
5	126	166	e232	194	298	475	458	1060	2670	731	e58	45
6	122	165	e220	205	308	488	478	1130	2910	687	e56	43
7	126	168	208	206	314	428	489	1080	2880	557	e53	41
8	125	168	220	199	335	417	514	1020	2600	499	e52	41
9	130	170	226	186	373	403	557	959	2120	439	e47	40
10	126	174	227	188	410	396	587	914	1910	384	e45	37
11	123	182	227	198	399	384	566	874	1670	385	e45	38
12	121	200	229	205	395	375	539	845	1570	364	e44	37
13	105	202	240	209	364	367	542	815	1510	350	47	37
14	109	201	239	192	330	369	556	799	1470	331	45	38
15	127	201	229	196	339	370	541	796	1610	324	42	37
16	133	203	224	223	351	378	529	793	1640	300	40	37
17	135	205	226	238	407	390	503	784	1790	277	41	37
18	136	206	224	244	466	393	491	775	1910	271	49	38
19	136	206	e219	255	459	402	496	747	2000	258	47	38
20	135	207	e220	292	478	418	499	715	2030	216	48	38
21	136	206	e220	334	441	440	502	698	2040	205	46	38
22	137	209	e216	326	415	468	552	678	1730	199	45	36
23	136	207	e215	318	397	476	617	665	1620	186	44	36
24	136	212	e214	299	388	473	749	666	1540	178	44	35
25	147	222	214	275	407	466	776	1020	1460	172	44	34
26	154	225	213	e240	408	466	778	1330	1390	e165	43	35
27	154	225	193	e233	424	476	727	1460	1320	e158	43	35
28	163	227	203	e232	394	480	686	1630	1220	e122	44	35
29	170	235	213	e232	---	482	617	1870	1110	e102	43	37
30	169	242	213	e231	---	489	642	2000	854	e88	41	38
31	165	---	229	e230	---	454	---	2140	---	e78	40	---
TOTAL	4151	5885	6928	7166	10359	13409	16805	31694	56564	11185	1493	1156
MEAN	134	196	223	231	370	433	560	1022	1885	361	48.2	38.5
MAX	170	242	247	334	478	490	778	2140	2910	851	70	45
MIN	102	160	193	176	239	367	451	665	854	78	40	34
AC-FT	8230	11670	13740	14210	20550	26600	33330	62870	112200	22190	2960	2290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1999, BY WATER YEAR (WY)

	MEAN	59.6	89.4	107	148	289	596	865	1024	1215	353	61.7	37.2
MAX	369	411	720	616	1779	2949	4222	5719	4635	1960	571	199	
(WY)	1983	1984	1984	1997	1986	1983	1984	1984	1984	1984	1984	1984	
MIN	10.3	10.3	10.0	10.0	30.1	104	29.9	11.3	6.27	5.71	3.68	6.53	
(WY)	1932	1932	1932	1932	1932	1934	1934	1934	1931	1931	1931	1931	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1903 - 1999

ANNUAL TOTAL	272656	166795	
ANNUAL MEAN	747	457	403
HIGHEST ANNUAL MEAN			1846
LOWEST ANNUAL MEAN			34.8
HIGHEST DAILY MEAN	3280	Jun 12	7820
LOWEST DAILY MEAN	79	Aug 24	2.0
ANNUAL SEVEN-DAY MINIMUM	82	Sep 4	2.4
INSTANTANEOUS PEAK FLOW			7870
INSTANTANEOUS PEAK STAGE			10.08
ANNUAL RUNOFF (AC-FT)	540800	330800	291900
10 PERCENT EXCEEDS	2340	1090	1190
50 PERCENT EXCEEDS	318	240	123
90 PERCENT EXCEEDS	106	44	24

e Estimated

HUMBOLDT RIVER BASIN

10323425 HUMBOLDT RIVER AT OLD U.S. HIGHWAY 40 BRIDGE, AT DUNPHY, NV

LOCATION.--Lat 40°42'20", long 116°31'48", in SE 1/4 SE 1/4 sec.26, T.33 N., R.48 E., Eureka County, Hydrologic Unit 16040105, on right downstream bridge abutment, at Dunphy.

DRAINAGE AREA.--7,470 mi².

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 fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,140 ft³/s, June 9, 1995, gage height, 8.57 ft; minimum daily, 1.6 ft³/s, August 13, 1992.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood February 12, 1962, maximum discharge 7,620 ft³/s, computed by slope-area and culvert computations of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,850 ft³/s, June 7, gage height, 6.89 ft; minimum daily, 22 ft³/s, September 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	184	262	261	312	404	455	691	2070	867	107	35
2	125	183	260	245	301	420	456	757	2220	792	95	35
3	123	177	260	227	283	440	458	836	2480	768	80	36
4	105	173	267	198	298	476	455	960	2520	788	71	36
5	121	175	263	186	314	476	456	1000	2530	754	66	36
6	127	180	251	215	342	475	476	1060	2710	718	61	36
7	125	183	228	220	374	477	487	1110	2780	666	58	36
8	128	183	210	217	370	441	505	1070	2650	562	55	35
9	129	182	209	218	e364	420	535	1010	2270	523	52	36
10	128	184	154	203	e359	412	561	951	1950	451	46	22
11	127	190	155	207	e366	401	571	914	1710	419	42	30
12	124	201	218	209	376	393	551	874	1530	410	40	33
13	119	220	243	219	370	384	539	834	1440	393	39	35
14	106	223	252	219	374	384	552	821	1400	378	31	37
15	108	224	255	206	380	382	554	808	1430	367	27	38
16	123	222	235	223	408	384	543	809	1520	358	26	39
17	133	211	234	248	433	389	533	810	1560	331	24	38
18	137	221	234	263	499	401	514	800	1690	322	36	36
19	141	224	228	272	497	400	514	788	1800	314	45	34
20	141	220	199	294	488	410	525	756	1890	302	48	35
21	138	222	93	338	476	424	519	727	1900	261	41	34
22	142	224	128	359	448	447	536	710	1760	255	42	33
23	141	227	e208	351	427	465	602	692	1550	248	40	33
24	140	223	e190	344	416	474	649	687	1470	212	40	31
25	147	230	e190	323	403	468	734	781	1380	200	33	30
26	161	237	e190	308	416	462	739	1100	1310	200	37	27
27	174	241	e190	321	421	465	730	1290	1260	174	36	26
28	171	243	e204	306	422	469	688	1390	1180	171	36	27
29	181	247	e218	258	---	474	671	1590	1100	159	37	26
30	192	258	e240	221	---	482	649	1790	953	136	37	27
31	188	---	254	264	---	471	---	1900	---	120	34	---
TOTAL	4259	6312	6722	7943	10937	13470	16757	30316	54013	12619	1462	992
MEAN	137	210	217	256	391	435	559	978	1800	407	47.2	33.1
MAX	192	258	267	359	499	482	739	1900	2780	867	107	39
MIN	105	173	93	186	283	382	455	687	953	120	24	22
AC-FT	8450	12520	13330	15750	21690	26720	33240	60130	107100	25030	2900	1970

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

	MEAN	48.2	88.0	115	211	292	657	721	1005	1378	465	74.9	27.7
	MAX	137	210	253	667	564	1433	1369	1939	2581	1300	216	72.9
	(WY)	1999	1999	1997	1997	1997	1997	1996	1998	1995	1995	1998	1998
	MIN	8.51	21.7	33.7	38.7	45.1	161	148	159	37.5	7.87	2.93	2.49
	(WY)	1992	1993	1993	1993	1993	1994	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1991 - 1999

	ANNUAL TOTAL	269321	165802	
	ANNUAL MEAN	738	454	454
	HIGHEST ANNUAL MEAN			728
	LOWEST ANNUAL MEAN			79.8
	HIGHEST DAILY MEAN	2820	Jun 9	5040
	LOWEST DAILY MEAN	50	Sep 4	1.6
	ANNUAL SEVEN-DAY MINIMUM	57	Sep 1	2.1
	INSTANTANEOUS PEAK FLOW			2850
	INSTANTANEOUS PEAK STAGE			6.89
	ANNUAL RUNOFF (AC-FT)	534200	328900	329100
	10 PERCENT EXCEEDS	2140	1080	1390
	50 PERCENT EXCEEDS	352	263	157
	90 PERCENT EXCEEDS	92	37	11

e Estimated

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°49'30" (revised), long 116°35'00" (revised), in SW 1/4 NE 1/4 sec.17, T.34 N., R.48 E., Eureka County, Hydrologic Unit 16040106, at mouth of canyon on left bank, and 22 mi northeast of Battle Mountain.

DRAINAGE AREA.--864 mi², revised.

PERIOD OF RECORD.--March 1918 to September 1925 (fragmentary October 1923 to April 1925), March 1927 to May 1929 (fragmentary), October 1945 to current year.

REVISED RECORDS.--WSP 1214: 1950 (M); WSP 1714: 1959; WDR NV-76-1: 1971 (P), 1974 (P); WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,670 ft above 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 in valleys upstream. Station is above all diversions in Boulder Flat. Flow can be affected by Willow Creek Reservoir in Squaw Valley, 30 mi upstream, usable capacity, 18,000 acre-ft. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s, February 11, 1962, gage height, 6.89 ft; maximum gage height, 6.91 ft, January 3, 1997; no flow at times during summer months in some years

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge at 75 ft³/s and maximum (*):

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Feb 18	1700	104	3.06	Mar 22	0430	111	3.09
Mar 02	2100	118	3.12	May 04	2045	*263	*3.54

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	8.8	7.7	10	11	47	38	81	73	7.5	1.6	1.7
2	4.1	12	7.3	13	15	94	36	117	67	5.1	1.5	1.8
3	4.5	24	7.1	16	10	78	34	136	74	3.7	1.5	1.9
4	4.9	25	7.0	10	9.6	71	29	226	76	2.5	1.5	2.2
5	5.0	26	7.7	8.4	10	57	28	212	83	2.4	1.6	2.2
6	5.0	27	6.4	8.3	10	37	29	166	78	2.0	1.7	2.1
7	5.0	29	7.0	9.4	11	35	29	181	67	e1.9	1.7	2.1
8	5.1	30	6.9	e9.4	17	32	28	159	59	e1.8	1.7	2.1
9	5.2	29	11	12	31	31	28	131	52	e1.6	1.7	2.0
10	5.2	29	9.8	11	34	29	28	106	39	e1.5	1.7	2.0
11	5.2	30	8.1	10	33	25	29	107	40	e1.4	1.8	2.8
12	5.4	22	6.8	7.2	e29	26	26	108	39	1.2	2.0	44
13	5.5	12	6.8	7.6	e25	23	23	105	36	1.0	1.9	55
14	5.5	9.4	7.1	9.8	e22	22	24	102	33	.97	1.8	59
15	5.5	7.9	10	7.5	20	25	47	103	29	.88	1.6	59
16	5.6	7.2	9.2	8.1	19	38	55	104	26	.77	1.5	60
17	5.6	7.0	8.9	8.7	22	36	42	94	23	.63	1.5	61
18	5.5	6.7	e8.1	8.7	65	45	37	84	20	.58	1.6	61
19	5.5	6.4	e7.6	8.2	50	50	35	76	16	.54	1.8	60
20	5.6	6.2	e6.4	11	42	64	39	69	12	.51	1.6	51
21	5.7	6.0	e5.4	22	32	77	46	67	9.8	1.3	1.6	50
22	5.8	6.7	e4.7	18	27	94	55	67	8.4	1.9	1.6	28
23	6.0	6.7	3.9	22	22	65	50	69	7.8	1.6	1.5	15
24	6.4	6.8	4.4	22	19	59	44	72	8.1	1.4	1.6	11
25	6.8	6.3	6.6	26	26	51	43	88	7.9	1.4	1.6	7.3
26	7.2	6.3	7.3	14	38	59	38	96	9.3	1.4	1.7	5.6
27	7.5	6.0	9.0	e13	28	66	37	93	9.8	1.4	1.6	4.9
28	8.0	6.1	9.3	13	27	63	37	88	9.5	1.5	1.7	4.5
29	8.2	6.7	7.8	14	---	49	36	79	8.9	1.6	2.0	4.3
30	8.4	7.8	8.4	13	---	43	50	85	8.2	1.5	1.9	4.2
31	8.6	---	7.7	11	---	40	---	81	---	1.6	1.7	---
TOTAL	180.9	420.0	231.4	382.3	704.6	1531	1100	3352	1029.7	55.08	51.8	667.7
MEAN	5.84	14.0	7.46	12.3	25.2	49.4	36.7	108	34.3	1.78	1.67	22.3
MAX	8.6	30	11	26	65	94	55	226	83	7.5	2.0	61
MIN	3.4	6.0	3.9	7.2	9.6	22	23	67	7.8	.51	1.5	1.7
AC-FT	359	833	459	758	1400	3040	2180	6650	2040	109	103	1320

e Estimated

HUMBOLDT RIVER BASIN

10324500 ROCK CREEK NEAR BATTLE MOUNTAIN, NV--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1999, BY WATER YEAR (WY)

MEAN	3.28	4.35	8.47	20.4	55.1	111	148	96.2	31.9	4.28	1.36	2.10
MAX	48.1	19.5	104	269	385	630	1178	725	174	35.6	15.5	24.6
(WY)	1998	1997	1984	1997	1986	1984	1952	1984	1998	1984	1984	1997
MIN	.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

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1918 - 1999

ANNUAL TOTAL	29159.3			9706.48				41.0		
ANNUAL MEAN	79.9			26.6						
HIGHEST ANNUAL MEAN								235		1984
LOWEST ANNUAL MEAN								2.27		1994
HIGHEST DAILY MEAN	992	May 17		226	May 4			3510	Feb 10	1962
LOWEST DAILY MEAN	1.2	Sep 20		.51	Jul 20			.00	Jul 6	1918
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 19		.70	Jul 14			.00	Jul 14	1918
INSTANTANEOUS PEAK FLOW				263	May 4			4800	Feb 11	1962
INSTANTANEOUS PEAK STAGE				3.54	May 4			6.91	Jan 3	1997
ANNUAL RUNOFF (AC-FT)	57840			19250				29700		
10 PERCENT EXCEEDS	214			71				103		
50 PERCENT EXCEEDS	15			10				4.3		
90 PERCENT EXCEEDS	3.4			1.6				.00		

HUMBOLDT RIVER BASIN
10324700 BOULDER CREEK NEAR DUNPHY, NV

LOCATION.--Lat 40°57'04", long 116°26'39", in NE 1/4 SE 1/4 sec.33, T.36 N., R.49 E., Eureka County, Hydrologic Unit 16040105, on left bank, approximately 20 mi north of Dunphy.

DRAINAGE AREA.--76.7 mi².

PERIOD OF RECORD.--February 1991 to June 1993. Seasonal (January-June) record since June 1993.

GAGE.--Water-stage recorder. Elevation of gage is 5,010 ft above sea level, from topographic map.

REMARKS.--Records poor. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 440 ft³/s, January 2, 1997, gage height, 4.40 ft; no flow many days, most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during January to June, 4.9 ft³/s, February 16, gage height, 1.82 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	.00	.18	.00	.32	.23	---	---	---
2	---	---	---	.00	.00	.16	.00	.27	1.2	---	---	---
3	---	---	---	.00	.00	.14	.00	.71	.73	---	---	---
4	---	---	---	.00	.00	.04	.00	.86	.62	---	---	---
5	---	---	---	.00	.00	.02	.00	.50	.22	---	---	---
6	---	---	---	.00	.00	.00	.00	.73	.33	---	---	---
7	---	---	---	.00	.00	.00	.00	1.2	.22	---	---	---
8	---	---	---	.00	.00	.00	.00	2.5	.19	---	---	---
9	---	---	---	.00	.00	.00	.00	3.9	.19	---	---	---
10	---	---	---	.00	.00	.00	.00	4.3	.15	---	---	---
11	---	---	---	.00	.00	.00	.00	4.2	.10	---	---	---
12	---	---	---	.00	.00	.00	.00	4.4	.05	---	---	---
13	---	---	---	.00	.00	.00	.00	4.2	.00	---	---	---
14	---	---	---	.00	.00	.00	.00	4.0	.00	---	---	---
15	---	---	---	.00	.00	.00	.00	4.3	.00	---	---	---
16	---	---	---	.00	.71	.00	.05	3.4	.00	---	---	---
17	---	---	---	.00	.79	.00	.10	2.6	.00	---	---	---
18	---	---	---	.00	.10	.00	.13	2.2	.00	---	---	---
19	---	---	---	.00	.02	.00	.16	2.0	.00	---	---	---
20	---	---	---	.00	.00	.00	.23	1.9	.00	---	---	---
21	---	---	---	.00	.00	.00	.29	1.9	.00	---	---	---
22	---	---	---	.00	.00	.00	.23	1.8	e.00	---	---	---
23	---	---	---	.00	.00	.00	.19	1.8	e.00	---	---	---
24	---	---	---	.00	.53	.00	.15	2.2	e.00	---	---	---
25	---	---	---	.00	.09	.00	.13	2.5	e.00	---	---	---
26	---	---	---	.00	.09	.02	.16	1.7	e.00	---	---	---
27	---	---	---	.00	.03	.03	.18	1.2	e.00	---	---	---
28	---	---	---	.00	.08	.00	.20	.94	e.00	---	---	---
29	---	---	---	.00	---	.00	.19	.74	e.00	---	---	---
30	---	---	---	.00	---	.00	.35	.46	e.00	---	---	---
31	---	---	---	.00	---	.00	---	.29	---	---	---	---
TOTAL	---	---	---	0.00	2.44	0.59	2.74	64.02	4.23	---	---	---
MEAN	---	---	---	.000	.087	.019	.091	2.07	.14	---	---	---
MAX	---	---	---	.00	.79	.18	.35	4.4	1.2	---	---	---
MIN	---	---	---	.00	.00	.00	.00	.27	.00	---	---	---
AC-FT	---	---	---	.00	4.8	1.2	5.4	127	8.4	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

MEAN	.000	.000	.000	5.20	7.81	15.1	13.9	18.6	1.99	.000	.000	.007
MAX	.000	.000	.000	38.5	44.8	57.6	40.2	80.7	14.4	.000	.000	.014
(WY)	1992	1992	1992	1997	1996	1993	1998	1998	1998	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

WATER YEARS 1991 - 1999

ANNUAL MEAN	.085	
HIGHEST ANNUAL MEAN	.085	1992
LOWEST ANNUAL MEAN	.085	1992
HIGHEST DAILY MEAN	350	Jan 2 1997
LOWEST DAILY MEAN	.00	Feb 1 1991
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 1 1991
INSTANTANEOUS PEAK FLOW	440	Jan 2 1997
INSTANTANEOUS PEAK STAGE	4.40	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	62	
10 PERCENT EXCEEDS	29	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

e Estimated

HUMBOLDT RIVER BASIN

10325000 HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV

LOCATION.--Lat 40°40'04" (revised), long 116°55'49" (revised), 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.--8,860 mi², revised.

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.

REVISED RECORD.--WSP 1564: 1897-98, 1923; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4489.04 ft above sea level, from levels by the U.S. Geological Survey. Prior to March 1, 1921, nonrecording gage 1.3 mi upstream and March 1, 1921, to April 19, 1924, nonrecording gage 0.8 mi upstream, both at different datums. October 1945 to September 10, 1972, water-stage recorder at site 1.0 mi upstream at datum 4.79 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Records prior to 1969 (except the maximum for the period of record) do not always include flow in secondary channels or ditches at medium-high stages, much of which was used for irrigation. Many diversions above station for irrigation. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,800 ft³/s, May 3, 1952, maximum gage height, 10.62 ft, June 12, 1995; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,690 ft³/s, June 9, gage height, 9.31 ft; minimum daily, 30 ft³/s, September 20-23, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	271	333	359	421	450	505	660	1840	1180	87	36
2	126	273	335	367	448	442	496	697	2070	1090	80	36
3	113	271	339	373	429	465	498	763	2220	1000	73	35
4	108	270	347	341	432	494	497	867	2290	954	68	34
5	102	269	350	324	407	538	492	967	2440	957	64	35
6	116	269	350	334	337	537	498	1040	2480	919	62	35
7	129	276	337	367	342	557	512	1140	2530	874	60	35
8	117	276	321	363	356	528	515	1160	2640	792	58	35
9	117	275	e309	354	367	487	535	1150	2610	713	57	35
10	163	275	e304	347	393	464	562	1120	2480	653	56	34
11	196	283	e301	352	420	456	581	1080	2210	580	54	33
12	e218	287	299	353	407	437	574	1050	1980	544	52	31
13	e217	293	338	312	356	429	555	1010	1810	487	50	31
14	e211	295	369	361	351	416	550	975	1700	431	49	31
15	e202	298	366	354	363	415	561	959	1630	382	47	31
16	e210	295	369	351	370	412	554	947	1630	357	45	31
17	e227	285	358	375	390	416	547	917	1650	333	43	31
18	e226	287	359	388	422	423	540	904	1700	302	42	31
19	e225	298	360	400	497	430	529	873	1780	288	47	31
20	e226	297	e340	e403	476	433	528	834	1850	271	49	30
21	e225	300	e330	e408	520	450	526	809	1920	251	50	30
22	e226	300	e322	421	494	472	524	792	1960	219	47	30
23	e225	301	e314	451	471	508	546	771	1890	207	45	30
24	e226	299	e315	486	454	528	595	754	1780	191	42	31
25	e227	294	e313	470	440	533	660	738	1680	164	39	31
26	e229	306	e312	443	442	517	707	836	1610	151	37	31
27	e240	312	e310	442	448	508	715	969	1550	140	37	31
28	e245	320	e311	445	460	513	697	1130	1490	124	38	30
29	e247	323	328	412	---	517	669	1330	1410	117	37	31
30	269	328	337	379	---	523	648	1520	1340	107	36	31
31	269	---	374	381	---	536	---	1680	---	96	35	---
TOTAL	6001	8726	10350	11916	11713	14834	16916	30442	58170	14874	1586	967
MEAN	194	291	334	384	418	479	564	982	1939	480	51.2	32.2
MAX	269	328	374	486	520	557	715	1680	2640	1180	87	36
MIN	102	269	299	312	337	412	492	660	1340	96	35	30
AC-FT	11900	17310	20530	23640	23230	29420	33550	60380	115400	29500	3150	1920

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 1999, BY WATER YEAR (WY)

	MEAN	32.4	74.0	110	189	293	528	778	924	1136	376	51.0	17.8
MAX	194	291	334	1123	999	1693	3060	3718	3496	1418	243	120	
(WY)	1999	1999	1999	1997	1962	1997	1952	1980	1995	1975	1965		
MIN	.000	.21	3.67	9.58	22.7	102	96.9	50.7	20.7	2.36	.000	.000	
(WY)	1993	1955	1955	1955	1955	1961	1959	1959	1992	1992	1992	1981	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1897 - 1999
ANNUAL TOTAL	317969	186495	
ANNUAL MEAN	871	511	376
HIGHEST ANNUAL MEAN			889
LOWEST ANNUAL MEAN			54.5
HIGHEST DAILY MEAN	3440	Jun 14	5800
LOWEST DAILY MEAN	65	Sep 8	.00
ANNUAL SEVEN-DAY MINIMUM	66	Sep 4	.00
INSTANTANEOUS PEAK FLOW			5800
INSTANTANEOUS PEAK STAGE			10.62
ANNUAL RUNOFF (AC-FT)	630700	369900	272100
10 PERCENT EXCEEDS	2560	1140	1140
50 PERCENT EXCEEDS	452	363	127
90 PERCENT EXCEEDS	117	39	4.5

e Estimated

HUMBOLDT RIVER BASIN

10327500 HUMBOLDT RIVER AT COMUS, NV

LOCATION.--Lat 40°58'21" (revised), long 117°23'54" (revised), in NW 1/4 NE 1/4 sec.30, T.36 N., R.41 E., Humboldt County, Hydrologic Unit 16040105, on left bank, at Highway bridge 5.9 mi northeast of Golconda and 38 mi northwest of Battle Mountain.

DRAINAGE AREA.--12,530 mi², at current location at Preble Bridge.

PERIOD OF RECORD.--October 1894 to December 1909, September 1910 to September 1926, October 1945 to current year. Published as "near Golconda" prior to October 1917.

REVISED RECORDS.--WSP 1514: 1921-22, 1926. WSP 1314: 1904, 1907-8, 1911-13, 1916-17; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,350 ft, above sea level, from topographic map. Prior to September 25, 1917, nonrecording gages at several sites in vicinity of present location at different datums. September 25, 1917, to June 30, 1923, and May 23, 1925, to May 31, 1926, nonrecording gages at several sites within 7.0 mi of present site at different datum, October 1, 1945 to December 11, 1997 at site 6.5 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions above station for irrigation, 206,000 acres, additional acreage not covered by decree. Flows significantly influenced by discharge into river from mine de-watering approximately 15.5 mi upstream. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,900 ft³/s, April 24, 1984, gage height, 12.25 ft; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 1,800 ft³/s, June 13, gage height, 9.54 ft; maximum gage height, 9.58 ft, June 14; (backwater in channel); minimum daily, 42 ft³/s, September 26-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	346	e382	436	467	520	571	649	e690	e1120	e190	e60
2	185	351	e386	447	472	523	574	679	e755	e1080	e187	e59
3	187	351	e390	447	500	519	568	681	e825	e1040	e184	e59
4	187	353	e395	460	494	517	556	670	e915	e1010	e181	e59
5	180	352	e396	426	492	525	552	654	e1040	e960	e178	e58
6	177	351	e398	414	495	548	551	e670	e1200	e900	e162	e57
7	173	353	e393	420	474	572	549	e690	e1330	e850	e155	e56
8	177	356	395	425	440	581	544	e720	e1490	e800	e142	e56
9	183	356	e380	430	447	592	530	e750	e1590	e740	e133	e56
10	180	357	e360	426	456	579	511	e760	e1700	e680	e129	e55
11	184	359	e340	422	452	557	473	e660	e1750	e638	e127	e55
12	215	358	337	424	470	537	464	e620	e1790	e565	e122	e55
13	237	361	324	424	476	526	466	e600	e1800	e520	e118	e55
14	240	364	359	412	468	518	464	e620	e1780	e450	e110	e54
15	243	372	391	438	449	509	468	e645	e1760	e415	e99	e54
16	246	374	415	457	445	499	480	e655	e1710	e400	e89	e54
17	249	376	442	436	454	492	492	e640	e1650	e350	e84	e54
18	261	373	446	441	459	489	509	e620	e1610	e330	e78	e54
19	272	364	430	455	470	488	512	e635	e1560	e311	e77	e53
20	278	362	e410	476	496	493	508	e625	e1470	e292	e75	e53
21	282	362	e400	483	526	501	497	e600	e1420	e273	e72	e53
22	287	358	e380	484	534	506	491	e575	e1380	e254	e70	e52
23	291	360	369	495	543	516	495	e585	e1360	e235	e72	e47
24	295	363	374	518	538	530	502	e600	e1400	e216	e70	e44
25	309	361	393	525	530	550	510	e620	e1420	e211	e69	e43
26	312	357	433	528	519	566	529	e635	e1370	e208	e69	e42
27	314	364	494	517	511	567	555	e610	e1300	e205	e66	e42
28	318	370	537	500	515	561	580	e595	e1240	e202	e65	e42
29	326	379	516	503	---	561	600	e605	e1200	e199	e64	e43
30	332	386	429	465	---	566	621	e640	e1160	e196	e63	e43
31	340	---	427	515	---	571	---	e650	---	e193	e62	---
TOTAL	7643	10849	12521	14249	13592	16579	15722	19958	41665	15843	3362	1567
MEAN	247	362	404	460	485	535	524	644	1389	511	108	52.2
MAX	340	386	537	528	543	592	621	760	1800	1120	190	60
MIN	173	346	324	412	440	488	464	575	690	193	62	42
AC-FT	15160	21520	24840	28260	26960	32880	31180	39590	82640	31420	6670	3110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 1999, BY WATER YEAR (WY)

MEAN	33.1	64.9	99.3	144	260	538	760	776	898	431	75.9	21.6
MAX	259	386	791	762	873	3267	5312	6227	4630	1930	636	190
(WY)	1985	1984	1984	1984	1984	1983	1984	1984	1984	1984	1984	1984
MIN	.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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1895 - 1999

ANNUAL TOTAL	318740	173550	
ANNUAL MEAN	873	475	342
HIGHEST ANNUAL MEAN			2022
LOWEST ANNUAL MEAN			36.8
HIGHEST DAILY MEAN	3090	May 28	1800
LOWEST DAILY MEAN	127	Sep 9	42
ANNUAL SEVEN-DAY MINIMUM	136	Sep 4	43
INSTANTANEOUS PEAK FLOW			1800
INSTANTANEOUS PEAK STAGE			9.58
ANNUAL RUNOFF (AC-FT)	632200	344200	247400
10 PERCENT EXCEEDS	2420	776	943
50 PERCENT EXCEEDS	590	446	117
90 PERCENT EXCEEDS	178	69	.70

e Estimated

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.

GAGE.--Water-stage recorder. Elevation of gage is 4,470 ft, from river-profile map. Prior to November 21, 1946, water-stage recorder at site 1 mi downstream at different datum. November 21, 1946, to August 16, 1972, at site 250 ft upstream at datum 2.21 ft higher, August 16, 1972 to January 7 1998 at same site at datum 3.0 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 2,380 ft³/s, January 21, 1969, gage height, 8.40 ft; maximum discharge after dam completed, 678 ft³/s, May 15, 1984, gage height, 6.46 ft; minimum daily before dam, 4.0 ft³/s, January 7, 1970; minimum daily after dam, 4.1 ft³/s, July 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103 ft³/s, May 22, gage height, 4.53 ft; minimum daily, 5.3 ft³/s, December 20-24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	10	9.3	6.5	8.0	27	45	49	43	52	32	31
2	7.6	10	8.9	6.4	7.9	17	45	49	44	52	31	33
3	7.6	10	8.8	6.2	7.9	18	45	49	45	53	31	35
4	7.6	10	9.0	6.1	8.5	15	45	49	45	52	32	41
5	7.8	10	8.8	6.5	8.5	9.8	45	49	44	52	32	42
6	7.9	10	9.3	6.9	8.4	8.9	46	49	43	52	32	18
7	7.9	10	8.8	7.0	8.9	8.8	45	48	40	51	32	9.6
8	7.6	10	8.1	6.8	9.0	8.7	45	47	33	41	31	8.3
9	7.7	11	7.8	6.4	11	8.7	45	47	36	37	31	8.0
10	7.7	9.7	7.6	6.4	10	8.5	45	47	42	37	31	e8.0
11	7.6	9.9	7.4	6.3	8.6	8.7	45	47	33	37	31	e8.0
12	7.6	9.6	7.2	7.8	8.4	8.4	45	47	36	36	32	e8.0
13	7.4	9.6	7.2	7.1	8.5	8.4	45	46	41	36	32	e8.0
14	7.2	9.7	7.2	6.9	8.8	8.3	45	15	43	27	31	e8.0
15	7.2	9.7	6.5	7.4	8.6	9.4	45	14	36	21	31	e8.0
16	7.2	9.7	6.4	8.3	8.8	8.0	45	13	25	21	31	e8.0
17	7.1	10	6.6	7.8	10	8.3	45	18	26	21	31	e8.0
18	7.1	10	5.9	7.7	9.4	7.7	46	45	32	21	31	e8.0
19	7.1	9.5	5.6	8.4	8.6	7.5	59	54	48	21	32	e8.0
20	7.2	9.1	5.3	11	8.4	7.2	60	60	61	21	31	e8.0
21	7.1	9.4	5.3	11	8.8	7.2	60	63	51	21	32	e8.0
22	7.3	9.5	5.3	8.8	8.7	6.8	60	83	45	21	32	e7.9
23	10	8.8	5.3	11	8.7	6.8	60	60	35	25	32	e7.9
24	9.9	9.9	5.3	9.4	8.5	6.8	59	60	32	28	28	e7.9
25	12	9.2	6.0	8.5	8.7	6.9	59	64	31	31	11	e7.9
26	10	8.9	7.5	8.3	8.2	6.8	59	66	32	32	10	e7.8
27	9.6	8.8	7.3	8.1	8.2	6.7	59	45	40	32	9.9	e7.8
28	9.4	8.8	8.0	7.8	8.4	6.7	59	48	40	32	10	e7.8
29	9.7	9.1	7.3	7.8	---	6.8	59	45	42	32	11	e7.8
30	9.8	9.6	7.0	7.9	---	9.6	49	44	52	32	15	e7.8
31	10	---	7.2	8.0	---	43	---	43	---	31	26	---
TOTAL	254.5	289.5	223.2	240.5	244.4	326.4	1514	1463	1196	1058	844.9	392.5
MEAN	8.21	9.65	7.20	7.76	8.73	10.5	50.5	47.2	39.9	34.1	27.3	13.1
MAX	12	11	9.3	11	11	43	60	83	61	53	32	42
MIN	7.1	8.8	5.3	6.1	7.9	6.7	45	13	25	21	9.9	7.8
AC-FT	505	574	443	477	485	647	3000	2900	2370	2100	1680	779

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	9.13	9.52	9.60	9.50	11.3	13.3	36.3	66.6	52.6	26.5	18.5	12.8													
MAX	28.8	29.1	26.0	25.3	27.4	43.2	188	404	249	78.7	57.9	46.5													
(WY)	1985	1985	1985	1985	1985	1984	1984	1984	1983	1983	1983	1986													
MIN	6.14	6.75	7.20	6.99	6.85	7.93	7.98	8.00	6.11	6.57	5.94	6.62													
(WY)	1995	1989	1999	1981	1995	1997	1994	1992	1992	1992	1992	1992													

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1975 - 1999

ANNUAL TOTAL	8692.2	8046.9	
ANNUAL MEAN	23.8	22.0	23.0
HIGHEST ANNUAL MEAN			80.2
LOWEST ANNUAL MEAN			7.76
HIGHEST DAILY MEAN	77	May 5	656
LOWEST DAILY MEAN	5.3	Dec 20	4.1
ANNUAL SEVEN-DAY MINIMUM	5.4	Dec 18	4.5
INSTANTANEOUS PEAK FLOW			103
INSTANTANEOUS PEAK STAGE			4.53
INSTANTANEOUS LOW FLOW			5.3
ANNUAL RUNOFF (AC-FT)	17240	15960	16660
10 PERCENT EXCEEDS	46	48	51
50 PERCENT EXCEEDS	11	10	9.5
90 PERCENT EXCEEDS	7.6	7.1	7.0

e Estimated

HUMBOLDT RIVER BASIN

10329000 LITTLE HUMBOLDT RIVER NEAR PARADISE VALLEY, NV--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1974, BY WATER YEAR (WY)

MEAN	7.73	8.44	9.51	20.1	26.0	38.2	74.4	64.9	30.5	9.58	7.19	7.37
MAX	13.8	15.2	25.9	194	86.5	178	456	268	125	33.2	11.1	12.0
(WY)	1926	1928	1965	1969	1952	1972	1952	1952	1952	1952	1922	1923
MIN	5.65	5.68	5.50	5.75	6.69	8.85	11.1	9.39	6.54	5.58	5.48	5.57
(WY)	1967	1967	1967	1962	1955	1955	1955	1924	1966	1959	1967	1951

SUMMARY STATISTICS

WATER YEARS 1922 - 1974

ANNUAL MEAN	25.6	
HIGHEST ANNUAL MEAN	88.6	1952
LOWEST ANNUAL MEAN	8.53	1954
HIGHEST DAILY MEAN	2000	Jan 21 1969
LOWEST DAILY MEAN	4.0	Jan 7 1970
ANNUAL SEVEN-DAY MINIMUM	4.6	Jan 30 1962
INSTANTANEOUS PEAK FLOW	2380	Jan 21 1969
INSTANTANEOUS PEAK STAGE	8.40	Jan 21 1969
ANNUAL RUNOFF (AC-FT)	18510	
10 PERCENT EXCEEDS	61	
50 PERCENT EXCEEDS	9.2	
90 PERCENT EXCEEDS	6.3	

HUMBOLDT RIVER BASIN
10329500 MARTIN CREEK NEAR PARADISE VALLEY, NV

LOCATION.--Lat 41°32'05" (revised), long 117°25'01" (revised), in SE 1/4 NW 1/4, sec.12, T.42 N., R.40 E., Humboldt County, Hydrologic Unit 16040109, on left bank, 0.6 mi upstream from Humboldt County Recreation Park, and 7 mi northeast of Paradise Valley.

DRAINAGE AREA.--175 mi², revised.

PERIOD OF RECORD.--October 1921 to current year.

REVISED RECORDS.--WSP 1514: 1925-27 (M), 1930 (M), 1933 (M), 1938 (M), 1940, 1945; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,700 ft above 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. No diversions above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,000 ft³/s, January 21, 1943, gage height, 11.10 ft, site and datum then in use, on basis of slope area measurement of peak flow; minimum daily, 2.0 ft³/s, September 1, 1928.

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 09	1500	224	2.10	Mar 18	2200	289	2.36
Mar 01	1800	*527	*3.15	May 26	0015	253	2.22

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	12	18	13	13	303	64	91	156	29	6.3	6.2
2	8.4	12	16	12	12	154	57	120	156	27	6.2	6.7
3	8.4	11	16	11	14	143	54	133	158	26	6.2	7.6
4	8.4	11	16	10	13	96	48	121	137	24	6.2	8.0
5	8.4	11	11	12	13	52	51	105	118	24	6.5	8.0
6	8.4	11	14	12	13	44	51	109	112	21	6.8	8.0
7	8.4	12	12	12	59	38	53	131	103	20	6.9	8.0
8	8.4	12	15	11	38	34	59	152	97	19	6.6	7.9
9	8.4	12	11	11	106	33	51	147	94	18	6.2	7.5
10	8.4	11	10	11	41	28	45	135	90	16	6.2	7.0
11	8.4	12	14	11	25	28	47	122	86	15	6.8	6.7
12	8.4	11	13	12	21	26	51	125	83	14	7.1	6.5
13	8.4	11	13	13	19	30	62	137	84	13	6.8	6.4
14	8.4	12	13	12	17	48	77	126	85	12	6.2	6.7
15	8.4	12	12	13	16	63	76	118	87	12	6.2	6.8
16	8.4	12	12	16	16	78	83	110	84	12	6.2	6.6
17	8.4	13	12	15	90	101	96	106	86	11	6.2	6.7
18	8.4	12	12	14	33	139	118	114	80	10	6.2	7.5
19	8.4	12	11	16	27	167	141	128	75	10	6.1	7.9
20	8.4	11	9.3	16	21	166	165	141	69	9.7	6.0	7.8
21	8.4	12	7.6	15	20	183	166	155	65	9.6	5.9	7.0
22	9.2	16	9.5	14	18	124	129	173	61	9.1	5.8	6.5
23	9.9	15	10	20	23	130	107	186	57	8.6	5.9	8.0
24	10	15	10	18	61	130	98	207	53	8.0	6.1	8.0
25	14	14	10	15	40	160	102	232	50	8.0	5.9	8.0
26	14	14	12	17	24	179	124	240	46	7.8	5.9	8.0
27	12	14	13	14	31	149	129	232	42	7.7	6.1	8.9
28	12	14	15	12	118	103	120	228	38	7.4	6.2	9.2
29	13	14	14	12	---	88	105	232	34	7.2	6.2	9.2
30	12	15	13	14	---	82	94	202	31	6.8	5.9	9.4
31	12	---	13	14	---	73	---	169	---	6.4	6.2	---
TOTAL	294.5	376	387.4	418	942	3172	2623	4727	2517	429.3	194.0	226.7
MEAN	9.50	12.5	12.5	13.5	33.6	102	87.4	152	83.9	13.8	6.26	7.56
MAX	14	16	18	20	118	303	166	240	158	29	7.1	9.4
MIN	8.4	11	7.6	10	12	26	45	91	31	6.4	5.8	6.2
AC-FT	584	746	768	829	1870	6290	5200	9380	4990	852	385	450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1999, BY WATER YEAR (WY)

	MEAN	7.69	9.54	12.2	20.2	32.3	56.3	89.3	113	56.9	12.1	5.94	6.16
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1922 - 1999
ANNUAL TOTAL	23440.6	16306.9	
ANNUAL MEAN	64.2	44.7	35.1
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			8.18
HIGHEST DAILY MEAN	448	May 14	2500
LOWEST DAILY MEAN	6.8	Sep 1	2.0
ANNUAL SEVEN-DAY MINIMUM	6.9	Aug 29	2.0
INSTANTANEOUS PEAK FLOW		527	9000
INSTANTANEOUS PEAK STAGE		3.15	11.10
INSTANTANEOUS LOW FLOW		5.8	2.0
ANNUAL RUNOFF (AC-FT)	46490	32340	25430
10 PERCENT EXCEEDS	225	130	98
50 PERCENT EXCEEDS	14	14	10
90 PERCENT EXCEEDS	7.8	6.8	5.6

HUMBOLDT RIVER BASIN

10333000 HUMBOLDT RIVER NEAR IMLAY, NV

LOCATION.--Lat 40°41'33" (revised), long 118°12'12" (revised), in NW¹/₄ SE¹/₄, 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.--15,504 mi², revised.

PERIOD OF RECORD.--June 1935 to December 1941, April 1945 to current year.

REVISED RECORDS.--WSP 1714: Drainage area; WDR NV-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,130 ft above 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. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft³/s, May 27, 1984, gage height, 13.20 ft; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,610 ft³/s, June 19, 20, gage height, 9.13 ft; minimum daily, 42 ft³/s, September 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	233	286	e355	418	413	450	438	365	1040	229	53
2	102	238	290	e350	413	409	472	449	397	1050	196	52
3	100	242	296	e350	410	417	489	469	450	1050	176	57
4	99	245	309	e360	400	419	490	476	475	1050	163	55
5	98	248	e250	e360	400	417	495	492	540	991	160	50
6	97	252	e235	e350	412	412	494	501	655	920	158	49
7	97	256	e220	e335	421	412	465	490	731	883	165	48
8	95	257	e200	e340	406	423	451	439	787	831	151	48
9	92	257	e180	e345	420	442	441	403	835	748	139	48
10	89	258	e171	e350	403	455	432	414	924	696	137	47
11	88	262	e180	e350	387	467	425	429	1030	656	137	46
12	88	264	e200	e350	382	468	414	384	1120	508	132	45
13	88	264	e220	e345	381	459	397	411	1200	429	130	45
14	87	264	e250	e340	385	449	377	478	1290	465	124	44
15	94	263	e300	e335	388	437	368	532	1370	463	111	44
16	108	264	e350	e330	394	429	362	546	1440	443	103	44
17	118	269	395	341	390	420	359	465	1520	407	97	49
18	125	272	427	358	382	413	360	484	1560	376	91	51
19	132	275	370	355	372	407	367	506	1600	355	87	49
20	138	276	287	352	371	404	370	432	1600	339	83	48
21	148	277	237	368	382	403	381	344	1540	333	79	46
22	158	273	199	375	389	399	384	353	1420	373	76	45
23	168	277	264	382	403	396	380	384	1290	348	73	44
24	179	278	305	387	414	397	372	400	1110	277	71	44
25	195	275	332	395	428	403	368	411	1010	252	69	43
26	216	275	357	400	430	399	374	469	970	242	67	42
27	220	277	358	409	427	399	376	486	899	234	66	43
28	225	278	375	423	422	420	379	423	912	232	63	44
29	230	278	403	421	---	437	395	391	956	231	62	45
30	230	283	e375	415	---	443	415	376	1000	224	61	45
31	230	---	e360	403	---	444	---	364	---	220	57	---
TOTAL	4240	7930	8981	11329	11230	13112	12302	13639	30996	16666	3513	1413
MEAN	137	264	290	365	401	423	410	440	1033	538	113	47.1
MAX	230	283	427	423	430	468	495	546	1600	1050	229	57
MIN	87	233	171	330	371	396	359	344	365	220	57	42
AC-FT	8410	15730	17810	22470	22270	26010	24400	27050	61480	33060	6970	2800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1999, BY WATER YEAR (WY)

	MEAN	42.5	63.3	91.4	122	189	393	570	644	718	479	122	44.5
MAX	301	412	685	779	991	1991	4489	6223	5355	2340	936	292	
(WY)	1985	1985	1984	1984	1984	1986	1984	1984	1984	1984	1984	1984	1984
MIN	.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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1935 - 1999

ANNUAL TOTAL	271150	135351		
ANNUAL MEAN	743	371	287	
HIGHEST ANNUAL MEAN			2017	1984
LOWEST ANNUAL MEAN			26.0	1955
HIGHEST DAILY MEAN	2280	Jun 26	1600	Jun 19
LOWEST DAILY MEAN	87	Oct 14	42	Sep 26
ANNUAL SEVEN-DAY MINIMUM	89	Oct 9	44	Sep 22
INSTANTANEOUS PEAK FLOW			1610	Jun 19
INSTANTANEOUS PEAK STAGE			9.13	Jun 19
ANNUAL RUNOFF (AC-FT)	537800	268500	9270	May 27 1984
10 PERCENT EXCEEDS	1980	590	744	
50 PERCENT EXCEEDS	461	360	100	
90 PERCENT EXCEEDS	138	68	10	

e Estimated

HUMBOLDT RIVER BASIN
10333000 HUMBOLDT RIVER NEAR IMLAY, NV

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1998 to current year.

WATER TEMPERATURE: July 1998 to current year.

INSTRUMENTATION.--Specific conductance and water temperature monitor July 1998 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1050 microsiemens, September 25, 1998; minimum recorded, 550 microsiemens, July 23, 1998.

WATER TEMPERATURE: Maximum recorded, 27.5°C, July 17-21 1998; minimum daily, 13.0°C September 27, 1998.

EXTREMES FOR WATER YEAR 1998.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1050 microsiemens, September 25; minimum recorded, 550 microsiemens, July 23.

WATER TEMPERATURE: Maximum recorded, 27.5°C, September 17-21; minimum recorded, 13.0°C September 27.

EXTREMES FOR WATER YEAR 1999.--

SPECIFIC CONDUCTANCE: Maximum, 1180 microsiemens, September 7; minimum, 584 microsiemens, April 8-9.

WATER TEMPERATURE: Maximum, 26.0°C, July 11, August 3, 22, 26; minimum, 0.0°C many days in December and January.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	---	---	---	682	663	672	819	810	814
2	---	---	---	---	---	---	678	662	671	818	811	814
3	---	---	---	---	---	---	672	649	659	811	807	808
4	---	---	---	---	---	---	660	603	624	810	808	809
5	---	---	---	---	---	---	637	609	626	812	809	810
6	---	---	---	---	---	---	640	633	636	812	811	811
7	---	---	---	---	---	---	652	640	645	814	812	812
8	---	---	---	---	---	---	705	652	677	818	813	816
9	---	---	---	---	---	---	794	705	755	833	818	824
10	---	---	---	---	---	---	851	794	823	840	833	838
11	---	---	---	---	---	---	891	851	870	850	840	848
12	---	---	---	---	---	---	922	891	904	864	850	857
13	---	---	---	---	---	---	950	922	934	877	864	872
14	---	---	---	---	---	---	963	950	956	889	877	885
15	---	---	---	580	571	575	974	963	967	941	870	900
16	---	---	---	577	569	573	983	974	978	974	940	958
17	---	---	---	580	570	575	982	978	980	1000	974	987
18	---	---	---	584	574	579	978	972	974	1020	1000	1010
19	---	---	---	583	575	580	972	944	957	1040	1010	1020
20	---	---	---	578	561	570	944	932	938	1040	1030	1030
21	---	---	---	563	555	559	932	912	921	1040	1030	1030
22	---	---	---	565	556	560	912	898	904	1030	1020	1030
23	---	---	---	558	550	553	898	886	893	1040	1030	1030
24	---	---	---	573	553	561	886	856	868	1040	1030	1040
25	---	---	---	593	571	582	856	842	848	1050	1040	1040
26	---	---	---	605	591	598	842	832	835	1050	1040	1040
27	---	---	---	603	595	599	836	830	832	1040	1040	1040
28	---	---	---	619	601	610	840	836	837	1040	1040	1040
29	---	---	---	622	595	608	839	811	830	1040	1040	1040
30	---	---	---	655	591	619	811	792	797	1040	1040	1040
31	---	---	---	667	648	658	810	801	805	---	---	---
MONTH	---	---	---	---	---	---	983	603	826	1050	807	930

HUMBOLDT RIVER BASIN
10333000 HUMBOLDT RIVER NEAR IMLAY, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	1040	1030	1030	829	811	820	715	712	713	796	790	793
2	1030	1010	1020	841	824	833	714	711	712	790	784	787
3	1010	1000	1010	834	808	822	712	708	710	784	778	781
4	1000	990	997	808	789	800	717	709	711	778	771	775
5	993	953	977	796	783	789	723	716	719	771	766	769
6	955	932	946	786	772	779	720	713	717	769	760	764
7	935	913	924	772	758	764	717	713	714	763	754	758
8	914	898	907	758	745	752	714	710	712	757	749	753
9	898	880	890	747	740	743	712	708	709	750	742	746
10	880	866	874	747	739	743	750	705	723	744	736	741
11	867	852	860	743	734	739	769	750	760	738	731	735
12	852	836	846	741	724	733	775	769	773	732	725	728
13	837	819	829	732	725	728	775	769	773	725	719	722
14	819	800	810	732	720	725	775	767	772	719	712	716
15	802	793	798	722	712	718	769	766	767	712	704	708
16	798	788	793	714	710	712	782	768	775	704	682	693
17	798	782	790	713	708	710	790	782	785	682	676	679
18	787	771	779	710	703	706	811	789	801	677	671	674
19	775	759	768	712	700	706	816	811	813	672	667	669
20	764	752	758	707	697	702	822	816	819	667	662	665
21	755	740	748	700	691	697	826	821	823	690	660	671
22	741	731	736	699	688	694	828	825	826	706	690	699
23	735	723	729	692	685	688	829	827	828	725	706	715
24	724	721	723	694	689	691	829	824	827	742	725	733
25	730	723	726	701	694	698	825	822	823	752	742	748
26	735	722	728	700	696	698	822	819	821	760	752	755
27	726	712	720	697	691	694	819	815	817	770	760	765
28	713	710	712	692	690	692	816	811	813	775	770	772
29	728	694	712	695	692	694	811	807	809	779	774	776
30	779	728	755	712	691	696	807	802	804	781	774	777
31	811	778	796	---	---	---	802	796	799	780	776	779
MONTH	1040	694	829	841	685	732	829	705	773	796	660	737
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	783	776	780	725	722	723	630	624	626	741	737	739
2	782	778	780	722	719	720	626	619	623	740	737	738
3	783	773	778	720	715	717	624	617	621	737	730	733
4	774	770	772	716	713	715	622	609	616	735	730	732
5	773	770	771	716	712	713	614	608	611	740	734	736
6	772	768	770	713	710	712	614	607	611	749	740	744
7	769	765	767	712	709	710	613	596	607	757	749	752
8	766	763	764	710	707	709	603	584	589	762	756	759
9	764	761	762	708	705	707	590	584	587	764	760	762
10	763	759	761	712	705	707	597	587	592	766	763	764
11	767	755	762	708	704	706	600	590	596	770	766	768
12	760	747	754	707	704	706	614	599	605	774	770	772
13	751	742	746	706	703	705	652	614	633	775	771	773
14	743	737	739	705	702	704	676	652	664	774	772	773
15	738	731	735	704	701	703	690	676	681	774	772	773
16	732	727	729	703	700	701	705	690	695	775	772	773
17	727	722	724	703	700	702	724	705	712	777	773	774
18	723	718	720	705	702	703	744	724	732	776	758	767
19	719	715	717	705	703	704	760	744	752	758	742	750
20	717	712	714	704	702	703	763	758	761	742	722	731
21	713	709	711	703	699	701	762	758	761	722	705	714
22	709	705	707	701	698	700	761	757	758	705	684	696
23	705	699	702	701	698	699	758	756	757	684	680	681
24	712	695	701	702	699	701	760	756	758	682	680	681
25	721	711	718	702	701	702	763	758	760	686	681	683
26	724	721	723	702	656	679	762	758	760	688	685	686
27	725	723	724	656	637	643	760	746	751	686	683	685
28	726	723	724	638	634	635	746	745	746	684	679	683
29	---	---	---	637	636	636	745	741	744	683	679	681
30	---	---	---	637	634	636	741	739	740	679	675	678
31	---	---	---	635	629	632	---	---	---	677	671	674
MONTH	783	695	741	725	629	695	763	584	682	777	671	731

HUMBOLDT RIVER BASIN
10333000 HUMBOLDT RIVER NEAR IMLAY, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	672	664	668	604	586	594	789	785	787	984	976	980
2	664	662	663	627	604	616	794	789	791	1010	972	997
3	664	661	663	646	627	637	798	793	795	1020	1010	1010
4	661	657	660	663	646	654	802	798	800	1010	999	1000
5	658	655	656	675	663	668	803	801	802	1020	999	1010
6	655	652	653	688	675	681	808	803	805	1150	991	1070
7	652	646	649	698	687	692	812	808	810	1180	1150	1170
8	646	644	645	704	697	700	815	812	813	1180	1170	1170
9	644	641	643	706	701	703	821	815	818	1170	1160	1160
10	644	640	643	710	705	707	824	791	808	1160	1130	1150
11	643	641	642	715	708	712	808	794	802	1130	1100	1120
12	643	641	643	718	713	715	810	799	805	1100	1060	1080
13	644	641	643	721	716	718	815	809	812	1060	1020	1040
14	644	641	643	726	720	723	833	814	823	1070	927	1030
15	645	642	643	728	724	726	847	833	841	1070	1040	1060
16	645	643	644	728	725	726	865	847	855	1040	1030	1040
17	646	643	644	728	724	726	874	865	871	1030	972	1020
18	644	641	643	731	726	729	913	873	885	1020	975	1000
19	644	640	642	735	730	732	952	909	929	1010	977	990
20	642	637	640	739	734	736	971	952	965	983	957	974
21	638	635	637	743	738	740	974	967	970	983	959	974
22	637	630	634	747	742	744	1000	974	988	962	924	947
23	632	623	628	749	746	747	1020	997	1010	928	901	921
24	628	621	624	752	748	750	1020	990	1010	932	920	927
25	634	628	631	755	751	753	1000	980	989	930	906	919
26	638	618	629	761	755	757	980	961	969	915	899	907
27	624	614	617	765	760	762	978	962	970	909	896	902
28	618	597	609	770	765	767	963	948	954	906	893	900
29	601	591	594	776	770	773	991	959	976	904	884	894
30	615	584	591	780	775	778	1000	971	987	919	882	899
31	---	---	---	785	780	783	1020	974	991	---	---	---
MONTH	672	584	639	785	586	718	1020	785	885	1180	882	1010
YEAR	1180	584	764									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	---	---	---	---	---	---	23.5	21.5	22.5	24.0	21.0	22.5
2	---	---	---	---	---	---	24.5	22.0	23.0	24.0	21.0	22.5
3	---	---	---	---	---	---	24.5	22.0	23.5	24.0	21.0	22.5
4	---	---	---	---	---	---	25.0	22.5	24.0	24.0	22.0	23.0
5	---	---	---	---	---	---	26.0	23.0	24.5	23.0	21.5	22.5
6	---	---	---	---	---	---	26.0	24.0	25.0	24.5	21.0	22.5
7	---	---	---	---	---	---	25.5	24.0	25.0	24.0	22.0	23.0
8	---	---	---	---	---	---	24.5	23.0	24.0	24.0	21.5	23.0
9	---	---	---	---	---	---	24.0	22.5	23.5	23.0	18.0	20.5
10	---	---	---	---	---	---	24.0	22.0	23.0	19.0	17.0	18.0
11	---	---	---	---	---	---	25.0	22.0	23.5	20.5	17.0	18.5
12	---	---	---	---	---	---	25.0	22.5	24.0	22.5	19.0	20.5
13	---	---	---	---	---	---	26.0	23.0	24.5	22.5	19.5	21.0
14	---	---	---	---	---	---	25.5	23.0	24.5	23.0	19.5	21.5
15	---	---	---	26.0	25.0	26.0	25.0	22.5	24.0	23.0	20.0	21.5
16	---	---	---	26.5	23.5	25.0	24.5	22.5	23.5	23.0	20.0	21.5
17	---	---	---	27.5	24.0	26.0	23.5	22.0	23.0	22.5	20.0	21.5
18	---	---	---	27.5	25.0	26.5	23.0	21.0	22.0	21.5	18.5	19.5
19	---	---	---	27.5	25.0	26.5	23.0	21.0	22.0	19.0	16.5	17.5
20	---	---	---	27.5	25.0	26.5	22.5	20.5	21.5	18.5	15.5	17.0
21	---	---	---	27.5	25.5	26.5	22.5	20.5	21.5	18.5	15.5	17.0
22	---	---	---	27.0	26.0	26.5	22.5	20.0	21.0	18.0	14.5	16.5
23	---	---	---	26.0	25.0	25.5	22.0	20.0	21.0	18.0	15.0	16.5
24	---	---	---	26.5	24.5	25.5	22.0	19.5	21.0	18.5	15.5	17.0
25	---	---	---	26.0	24.5	25.0	21.5	19.0	20.5	17.5	15.5	16.0
26	---	---	---	26.5	24.0	25.0	22.0	20.0	21.0	15.5	14.0	14.5
27	---	---	---	26.5	24.5	25.5	22.0	19.0	20.5	16.0	13.0	14.5
28	---	---	---	25.5	24.0	25.0	22.0	19.5	21.0	17.5	14.0	15.5
29	---	---	---	25.5	23.5	24.5	23.5	20.0	21.5	16.5	15.0	15.5
30	---	---	---	24.5	23.0	24.0	23.5	21.0	22.0	16.0	14.0	14.5
31	---	---	---	23.5	22.5	23.0	23.5	20.5	22.0	---	---	---
MONTH	---	---	---	---	---	---	26.0	19.0	22.7	24.5	13.0	19.2

HUMBOLDT RIVER BASIN
10333000 HUMBOLDT RIVER NEAR IMLAY, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	13.5	15.0	8.5	7.0	7.5	6.5	5.0	5.5	.0	.0	.0
2	17.0	15.0	16.0	8.5	7.0	7.5	6.0	5.0	5.5	.0	.0	.0
3	16.0	14.5	15.0	7.0	6.0	6.5	5.5	4.0	5.0	.0	.0	.0
4	14.5	12.0	13.5	7.5	6.0	6.5	4.0	1.5	3.0	.0	.0	.0
5	13.5	10.5	12.0	7.0	5.5	6.5	1.5	.0	.5	.0	.0	.0
6	13.5	10.5	12.0	5.5	4.5	5.0	.5	.0	.0	.0	.0	.0
7	14.0	11.0	12.5	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
8	14.0	11.0	12.5	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
9	13.5	11.0	12.5	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
10	13.0	10.5	11.5	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0
11	12.5	9.5	11.0	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
12	12.5	10.0	11.0	4.5	3.0	4.0	.0	.0	.0	.0	.0	.0
13	13.5	10.5	12.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
14	13.5	10.5	12.0	5.5	3.5	4.5	.0	.0	.0	.0	.0	.0
15	12.0	10.0	11.0	6.0	4.5	5.0	.0	.0	.0	.0	.0	.0
16	10.5	8.5	9.5	5.5	4.5	5.0	.0	.0	.0	3.0	.0	1.0
17	9.0	6.5	8.0	5.0	4.5	5.0	.0	.0	.0	4.0	3.0	3.5
18	9.5	7.0	8.0	5.5	4.0	4.5	.0	.0	.0	4.0	3.5	3.5
19	10.0	7.5	9.0	4.5	3.0	3.5	.0	.0	.0	4.5	3.0	3.5
20	10.5	8.0	9.0	4.0	3.0	3.5	.0	.0	.0	4.0	4.0	4.0
21	11.0	8.5	9.5	6.0	4.0	5.0	.0	.0	.0	4.0	2.5	3.0
22	12.0	10.5	11.0	7.0	5.5	6.5	.0	.0	.0	3.0	2.0	2.5
23	12.0	10.0	11.0	7.5	6.0	7.0	.0	.0	.0	3.0	2.5	2.5
24	11.0	9.5	10.0	7.0	5.5	6.0	.0	.0	.0	2.5	1.0	2.0
25	9.5	8.0	9.0	5.5	4.5	5.0	.0	.0	.0	1.0	.5	.5
26	9.5	7.0	8.5	5.5	4.0	4.5	.0	.0	.0	1.5	.5	1.0
27	10.5	8.0	9.0	5.5	5.0	5.5	.0	.0	.0	1.0	.0	.5
28	10.0	9.5	10.0	5.5	5.0	5.5	.0	.0	.0	.5	.0	.0
29	9.5	8.0	8.5	5.0	4.5	5.0	.0	.0	.0	1.0	.0	.0
30	8.0	6.5	7.5	5.5	4.0	4.5	.0	.0	.0	1.5	.0	.5
31	7.5	5.5	7.0	---	---	---	.0	.0	.0	1.5	.5	1.0
MONTH	17.0	5.5	10.8	8.5	3.0	5.1	6.5	.0	.6	4.5	.0	.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	.5	1.0	8.5	6.0	7.5	7.0	5.5	6.0	12.5	8.5	10.5
2	1.5	1.0	1.5	8.5	7.0	7.5	6.0	5.0	5.5	12.0	11.0	11.5
3	2.0	1.0	1.5	8.5	6.5	7.5	6.0	4.5	5.0	11.0	9.5	10.0
4	3.5	2.0	3.0	8.0	5.5	7.0	6.5	3.5	5.0	11.5	8.5	10.0
5	3.5	3.0	3.5	6.0	4.5	5.0	6.5	5.5	6.0	12.5	9.0	11.0
6	4.0	3.5	3.5	6.0	4.5	5.5	6.0	5.0	5.5	15.0	11.0	13.0
7	5.5	4.0	4.5	6.0	4.5	5.5	8.0	5.5	6.5	16.5	13.5	15.0
8	5.0	4.5	4.5	5.0	4.5	5.0	8.0	6.5	7.0	15.5	13.5	14.5
9	4.5	3.0	4.0	5.5	4.0	4.5	7.0	5.5	6.5	14.5	12.0	13.0
10	3.0	1.5	2.5	5.0	3.5	4.0	6.5	4.5	6.0	13.5	11.5	13.0
11	1.5	.5	1.0	6.0	4.0	5.0	9.5	6.0	7.5	15.5	12.5	13.5
12	2.0	.5	1.5	5.5	3.5	5.0	11.0	8.0	9.5	16.5	14.0	15.0
13	2.5	1.5	2.0	7.0	4.5	6.0	12.5	9.5	11.0	16.0	13.5	14.5
14	3.5	2.0	2.5	7.5	5.5	6.5	12.5	10.0	11.5	14.5	13.0	13.5
15	4.0	2.0	3.0	8.0	6.0	7.0	13.0	10.0	11.5	13.5	11.0	12.5
16	4.0	3.0	3.5	9.0	6.5	8.0	14.0	10.5	12.0	15.0	11.0	13.0
17	5.0	3.5	4.5	9.5	7.0	8.5	14.0	11.5	13.0	16.0	12.5	14.5
18	6.0	4.0	5.0	10.5	8.0	9.0	15.0	12.5	14.0	16.5	14.0	15.5
19	6.0	4.0	5.0	10.0	8.5	9.5	16.0	13.5	14.5	18.0	14.5	16.0
20	4.5	3.5	4.0	10.0	9.0	9.5	16.5	14.5	15.5	19.0	16.0	17.5
21	4.5	3.5	4.0	10.0	8.0	9.0	14.5	13.0	14.0	20.0	16.5	18.0
22	4.0	3.5	3.5	10.0	7.5	9.0	13.0	11.0	12.0	19.5	16.5	18.0
23	4.5	3.0	3.5	11.0	8.5	9.5	12.0	10.5	11.5	20.0	16.5	18.5
24	6.0	4.0	5.0	11.5	9.0	10.5	12.5	11.0	12.0	21.0	18.5	19.5
25	6.0	5.0	5.5	11.5	10.0	11.0	14.5	11.0	13.0	21.5	18.5	20.0
26	5.0	3.5	4.5	12.5	10.5	11.5	15.5	13.0	14.0	22.5	19.5	21.0
27	5.5	3.5	4.5	12.0	10.0	11.0	14.0	11.5	12.5	23.0	19.5	21.5
28	7.0	5.0	6.0	10.5	8.5	10.0	12.0	11.0	11.5	23.0	21.0	22.0
29	---	---	---	9.5	8.5	9.0	11.0	8.0	9.0	21.5	19.5	20.5
30	---	---	---	9.0	7.0	8.0	9.5	7.5	8.5	21.0	18.5	19.5
31	---	---	---	8.0	7.0	7.5	---	---	---	20.5	17.5	19.0
MONTH	7.0	.5	3.5	12.5	3.5	7.7	16.5	3.5	9.9	23.0	8.5	15.6

		TEMPERATURE, WATER (DEG. C)					YEAR OCTOBER 1998 TO SEPTEMBER 1999					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.0	18.0	19.0	24.0	22.5	23.0	24.5	21.5	23.0	20.0	15.0	17.0
2	18.5	15.5	16.5	23.5	22.0	23.0	25.0	21.5	23.0	20.5	15.5	18.0
3	15.5	13.5	14.0	23.0	21.0	22.0	26.0	21.0	23.5	20.0	15.5	17.5
4	14.5	13.5	14.0	21.5	20.0	21.0	24.5	21.5	23.0	19.5	13.5	16.5
5	16.0	13.5	14.5	21.5	19.5	20.5	22.5	20.0	21.0	20.0	14.0	17.0
6	18.0	15.5	16.5	23.0	20.5	21.5	21.0	17.5	19.0	20.5	15.5	18.0
7	17.5	15.5	16.5	23.5	21.5	22.5	20.0	15.5	18.0	21.0	15.0	18.0
8	18.0	15.5	16.5	22.5	21.0	21.5	22.0	17.0	19.5	21.5	15.5	18.5
9	18.0	15.5	17.0	24.0	20.5	22.0	22.5	18.5	20.5	21.5	16.5	19.0
10	19.5	16.5	18.0	24.5	21.0	23.0	21.0	19.0	19.5	21.0	17.0	19.0
11	20.0	18.0	19.0	26.0	22.5	24.0	20.0	17.0	18.5	21.5	16.0	18.5
12	21.5	19.0	20.0	26.0	23.0	24.5	22.5	17.0	19.5	20.5	15.0	18.0
13	22.5	20.5	21.5	25.5	23.0	24.5	23.0	19.0	21.0	20.5	15.0	18.0
14	24.0	21.5	22.5	26.0	23.5	24.5	22.5	18.5	20.5	22.0	17.0	19.5
15	24.0	23.0	23.5	25.0	22.5	23.5	22.5	17.5	20.0	21.5	15.5	18.5
16	24.5	22.5	23.5	24.0	22.0	23.0	24.0	18.0	21.0	21.5	15.5	18.5
17	24.5	23.0	23.5	23.0	20.5	22.0	24.5	19.0	21.5	21.5	15.5	18.5
18	24.0	23.0	23.5	23.5	20.5	22.0	23.5	19.5	21.5	22.5	17.5	20.0
19	23.5	22.0	23.0	24.0	20.5	22.5	24.5	19.0	21.5	23.5	17.0	20.0
20	24.0	22.0	23.0	23.5	21.5	22.5	25.0	19.5	22.0	23.5	17.5	20.5
21	24.0	22.5	23.0	23.5	20.5	22.0	24.0	20.0	22.0	23.0	17.0	20.0
22	24.0	22.0	23.0	23.5	20.5	22.5	26.0	20.0	23.0	20.5	16.5	18.5
23	24.0	22.0	23.0	24.0	21.0	22.5	24.5	22.0	23.0	23.0	16.5	19.5
24	24.0	22.0	23.0	23.5	20.5	22.0	25.0	19.5	22.0	22.5	18.0	20.0
25	22.5	21.0	21.5	23.5	20.0	21.5	25.0	19.5	22.0	22.0	17.0	19.0
26	22.5	20.0	21.0	24.5	20.5	22.5	26.0	20.0	23.0	19.0	14.5	16.5
27	22.5	20.0	21.0	25.5	21.0	23.0	24.0	20.0	22.0	16.0	12.0	14.0
28	22.5	20.5	21.5	25.5	22.0	23.5	25.0	20.0	22.5	14.0	9.5	12.0
29	23.5	21.0	22.0	25.0	22.0	23.5	24.5	19.5	22.0	15.0	8.5	11.5
30	24.0	22.0	23.0	25.0	22.0	23.5	22.5	17.5	20.0	16.5	10.0	13.0
31	---	---	---	25.0	21.0	23.0	19.0	14.0	16.5	---	---	---
MONTH	24.5	13.5	20.2	26.0	19.5	22.7	26.0	14.0	21.1	23.5	8.5	17.8
YEAR	26.0	11.0	18.5	26.0	20.0	23.0	26.0	14.0	21.0	23.0	8.5	17.8

HUMBOLDT RIVER BASIN

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 Bureau of Reclamation, in use since October 1, 1971. Water is used for irrigation in the Lovelock area. See schematic diagram of Humboldt River Basin.

COOPERATION.--Records of daily elevation furnished by Pershing County Water Conservation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 200,400 acre-ft, June 9, 1998, elevation, 4,136.5 ft; no contents, August 7-11, 1955, May 12 to June 13, 1961, July 17, 1992, and August 11-13, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 164,000 acre-ft, July 7-13, elevation, 4,133.5 ft; minimum observed, 120,400 acre-ft, September 30, elevation, 4,129.7 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)					
4,072	0	4,095	3,460	4,120	53,200
4,075	10	4,100	6,340	4,125	82,700
4,080	70	4,105	10,480	4,130	123,200
4,085	370	4,110	17,000	4,135	182,400
4,090	1,510	4,115	31,700	4,140	244,400

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148100	133200	129200	131200	155900	152000	154600	148100	138700	158600	154600	136500
2	148100	133200	129200	132200	155900	152000	154600	148100	137600	158600	154600	135400
3	148100	133200	129200	134300	155900	150700	154600	148100	137600	159900	153300	134300
4	146800	133200	129200	135400	155900	150700	154600	148100	138700	159900	153300	133200
5	146800	132200	130200	135400	154600	150700	154600	148100	138700	161300	153300	132200
6	145500	132200	131200	135400	154600	150700	154600	148100	138700	162600	152000	131200
7	145500	132200	131200	137600	154600	150700	154600	148100	139800	164000	152000	131200
8	144200	131200	131200	137600	155900	150700	154600	148100	139800	164000	152000	130200
9	144200	131200	131200	137600	154600	152000	154600	148100	140900	164000	152000	130200
10	143100	131200	131200	137600	154600	153300	155900	146800	140900	164000	150700	129200
11	143100	131200	131200	137600	155900	153300	155900	146800	142000	164000	149400	128200
12	142000	130200	131200	137600	155900	154600	155900	145500	143100	164000	149400	128200
13	142000	130200	131200	137600	155900	154600	155900	145500	144200	164000	149400	127200
14	140900	130200	131200	137600	155900	154600	155900	144200	145500	162600	149400	127200
15	140900	129200	131200	138700	154600	154600	155900	144200	146800	162600	149400	126200
16	139800	129200	131200	138700	154600	154600	155900	144200	146800	161300	148100	126200
17	139800	129200	131200	139800	154600	154600	154600	144200	148100	161300	148100	125200
18	138700	129200	131200	140900	154600	154600	154600	143100	149400	161300	146800	125200
19	138700	129200	131200	142000	154600	154600	153300	143100	150700	159900	145500	125200
20	137600	129200	131200	143100	154600	154600	153300	142000	150700	158600	144200	124200
21	137600	129200	131200	144200	153300	154600	153300	142000	152000	158600	144200	124200
22	136500	129200	131200	145500	153300	154600	152000	140900	153300	157200	143100	124200
23	135400	129200	131200	146800	153300	154600	152000	140900	154600	157200	143100	123200
24	135400	129200	131200	148100	153300	154600	152000	140900	155900	157200	142000	123200
25	135400	129200	131200	149400	152000	154600	150700	139800	155900	157200	140900	123200
26	135400	129200	131200	149400	152000	154600	150700	139800	155900	157200	139800	122300
27	134300	129200	131200	150700	152000	154600	149400	138700	155900	155900	139800	122300
28	134300	129200	131200	152000	152000	154600	148100	138700	157200	155900	138700	122300
29	133200	129200	131200	152000	---	154600	148100	139800	157200	154600	138700	121300
30	133200	129200	131200	153300	---	154600	148100	139800	158600	154600	137600	120400
31	133200	---	131200	154600	---	154600	---	139800	---	154600	136500	---
MAX	148100	133200	131200	154600	155900	154600	155900	148100	158600	164000	154600	136500
MIN	133200	129200	129200	131200	152000	150700	148100	138700	137600	154600	136500	120400
CAL YR 1998	MAX 200400		MIN 129200									
WTR YR 1999	MAX 164000		MIN 120400									

HUMBOLDT RIVER BASIN

10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

LOCATION.--Lat 40°28'03" (revised), long 118°18'24" (revised), in SE 1/4 NE 1/4 sec.18, T.30 N., R.33 E., Pershing County, Hydrologic Unit 16040108, on right bank, 1,100 ft downstream from Rye Patch Dam, and 1.5 mi northwest of Rye Patch.

DRAINAGE AREA.--16,100 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1896 to June 1898, June 1899 to December 1909, September 1910 to June 1917, September 1917 to September 1922, September 1924 to September 1930 (fragmentary), October 1930 to September 1932, October 1935 to September 1941, October 1943 to current year. Prior to October 1935, published as "near Oreana."

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,070. ft, above sea level from topographic map. Prior to October 1, 1935, water-stage recorder or nonrecording gages at several sites about 7 mi downstream at different datum. October 1, 1935, to October 13, 1945, water-stage recorder at site 0.5 mi upstream at different datum. October 14, 1945, to April 9, 1991, water-stage recorder at site 75 ft downstream at datum 5.00 ft higher. April 9, 1991 to September 30, 1998, water-stage recorder at site 100 ft upstream on opposite bank, at same datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Rye Patch Reservoir (station 10334500) since 1936. Records not adjusted for storage. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,050 ft³/s, May 12, 1897, gage height, 12.0 ft, (datum then in use); maximum discharge after dam completed, 7,960 ft³/s, May 28, 1984, gage height, 13.65 ft (datum then in use); no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 746 ft³/s, June 24, 25, gage height, 7.69 ft; minimum daily, 1.3 ft³/s January 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	425	277	20	175	571	419	425	553	537	309	325
2	436	424	278	19	516	570	417	426	553	575	334	344
3	438	424	277	18	487	567	415	428	553	446	384	373
4	439	423	276	16	486	566	415	428	553	384	375	339
5	438	428	277	15	488	566	414	462	554	433	358	273
6	438	428	274	14	386	565	411	503	555	412	286	249
7	438	430	287	85	211	202	412	633	556	436	252	232
8	434	430	315	261	300	19	414	656	555	575	233	201
9	432	430	314	258	507	18	416	655	556	538	260	264
10	429	429	314	254	508	177	419	704	506	462	251	278
11	430	427	317	252	510	496	418	723	414	475	223	264
12	430	427	320	249	510	445	417	724	417	530	282	240
13	429	425	316	245	529	443	421	725	474	548	308	206
14	428	422	313	242	544	443	475	725	557	550	323	148
15	427	421	311	164	547	439	604	724	644	577	382	164
16	428	421	311	6.3	547	439	605	723	634	592	403	137
17	430	421	311	5.8	549	438	607	723	642	563	431	120
18	430	375	310	5.3	550	438	610	726	700	576	463	88
19	428	282	308	4.9	550	436	612	724	733	544	446	155
20	429	278	308	4.3	551	435	612	725	734	523	406	174
21	430	280	310	3.8	563	434	614	723	735	523	403	182
22	428	279	309	3.5	580	431	614	717	736	483	381	178
23	426	279	309	3.1	581	431	618	714	738	419	312	184
24	426	279	307	2.1	583	430	620	658	739	315	266	173
25	426	278	305	1.6	579	429	626	549	709	277	284	174
26	425	278	305	1.4	576	428	625	548	553	332	296	222
27	425	280	305	1.3	573	426	628	548	521	295	249	231
28	425	280	305	3.2	574	426	583	548	523	294	249	229
29	424	278	305	5.7	---	424	477	547	523	363	308	212
30	425	286	101	8.3	---	423	422	549	524	321	329	169
31	426	---	21	12	---	421	---	551	---	260	346	---
TOTAL	13333	10967	8896	2184.6	14060	12976	15360	19214	17744	14158	10132	6528
MEAN	430	366	287	70.5	502	419	512	620	591	457	327	218
MAX	439	430	320	261	583	571	628	726	739	592	463	373
MIN	424	278	21	1.3	175	18	411	425	414	260	223	88
AC-FT	26450	21750	17650	4330	27890	25740	30470	38110	35200	28080	20100	12950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1999, BY WATER YEAR (WY)

	MEAN	110	37.6	45.3	71.4	66.6	171	455	656	570	464	269	159
MAX	430	366	979	1310	1142	2206	3579	6215	4981	1983	990	716	
(WY)	1999	1999	1984	1984	1984	1983	1984	1984	1984	1984	1995	1995	
MIN	.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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1936 - 1999

ANNUAL TOTAL	269235.1	145552.6	
ANNUAL MEAN	738	399	257
HIGHEST ANNUAL MEAN			2004
LOWEST ANNUAL MEAN			29.2
HIGHEST DAILY MEAN	2390	Jun 9	7840
LOWEST DAILY MEAN	6.5	Mar 9	1.3
ANNUAL SEVEN-DAY MINIMUM	182	Mar 6	2.3
INSTANTANEOUS PEAK FLOW			746
INSTANTANEOUS PEAK STAGE			7.69
ANNUAL RUNOFF (AC-FT)	534000	288700	186300
10 PERCENT EXCEEDS	1830	613	593
50 PERCENT EXCEEDS	540	425	111
90 PERCENT EXCEEDS	283	174	.14

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

SPECIFIC CONDUCTANCE: September 1998 to current year.
WATER TEMPERATURE: September 1998 to current year.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

SPECIFIC CONDUCTANCE: Maximum, 1200 microsiemens, January 21, 1998; minimum daily, 834 microsiemens, July 1, 1999.
WATER TEMPERATURE: Maximum, 23.0°C, June 30, 1999; minimum, 2.0°C December 20-30, 1998, February 1, 2, 1999.

SPECIFIC CONDUCTANCE: Maximum recorded, 893 microsiemens, September 30; minimum recorded, 850 microsiemens, September 15.
WATER TEMPERATURE: Maximum recorded, 21.0°C, September 15-17; minimum recorded, 17.0°C September 30.

SPECIFIC CONDUCTANCE: Maximum, 1200 microsiemens, January 21; minimum, 834 microsiemens, July 1.
WATER TEMPERATURE: Maximum, 23.0°C, June 30; minimum, 2.0°C December 20-30, February 1, 2.

[illegible]

HUMBOLDT RIVER BASIN
10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	885	882	883	985	968	973	977	973	975	958	903	929
2	887	883	885	988	969	973	976	973	975	938	894	923
3	887	884	886	991	967	975	976	973	974	939	909	926
4	887	885	887	993	969	975	979	973	975	952	906	934
5	888	886	887	989	968	974	988	973	976	954	908	937
6	889	887	888	990	967	970	977	973	975	954	902	937
7	890	887	888	997	967	976	991	974	976	1130	922	991
8	891	888	890	991	967	971	976	970	974	1140	1120	1130
9	893	889	891	986	964	972	981	972	974	1140	1130	1130
10	894	892	893	983	961	967	994	972	975	1140	1130	1130
11	901	894	897	987	962	966	975	971	974	1130	1130	1130
12	930	900	912	990	962	967	984	974	975	1130	1120	1130
13	944	930	937	985	963	969	999	975	978	1130	1110	1120
14	961	935	949	997	960	979	979	974	977	1130	1110	1130
15	956	924	932	1010	983	988	994	962	980	1140	1120	1130
16	935	929	933	1000	979	987	997	979	982	1160	1090	1120
17	935	934	935	987	976	979	993	982	985	1130	1080	1100
18	937	935	936	1000	978	982	987	983	985	1120	1080	1090
19	936	935	936	999	977	980	991	987	990	1150	1110	1130
20	938	936	937	991	977	979	997	989	992	1190	1150	1160
21	938	936	937	979	975	977	998	995	997	1200	1180	1190
22	943	937	940	979	975	977	1000	998	1000	1190	1150	1170
23	947	941	944	979	976	978	1000	999	1000	1170	1150	1150
24	951	945	948	980	978	979	1000	1000	1000	1160	1000	1090
25	955	945	948	979	976	978	1000	1000	1000	1020	1000	1010
26	952	948	950	980	976	978	1010	1000	1010	1020	1000	1020
27	955	948	950	978	975	976	1010	1010	1010	1040	989	1010
28	953	949	951	976	974	975	1010	1000	1010	1000	981	992
29	987	949	967	976	974	975	1010	1000	1010	1000	981	992
30	985	973	977	980	973	975	1010	964	985	1000	984	991
31	988	971	975	---	---	---	966	920	941	1000	990	993
MONTH	988	882	925	1010	960	976	1010	920	985	1200	894	1060
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1080	983	1020	1030	1020	1030	954	952	953	919	914	916
2	1080	1080	1080	1030	1020	1020	953	950	951	915	913	914
3	1080	1080	1080	1020	1020	1020	950	946	948	921	913	914
4	1080	1070	1080	1020	1020	1020	950	947	948	917	911	913
5	1080	1070	1070	1020	1010	1010	949	946	947	912	910	911
6	1070	1070	1070	1010	1010	1010	948	944	946	912	909	911
7	1070	1060	1070	1010	1000	1010	1000	942	949	910	906	909
8	1070	1060	1060	1010	979	996	971	948	961	907	906	906
9	1100	1060	1070	983	967	974	970	967	968	907	903	905
10	1070	1060	1070	995	964	980	967	965	967	905	901	903
11	1070	1060	1060	995	992	993	967	964	965	902	899	900
12	1060	1060	1060	994	991	992	964	959	961	900	896	898
13	1060	1060	1060	992	989	990	960	952	957	896	892	894
14	1070	1060	1060	990	986	988	954	951	952	892	889	890
15	1060	1050	1050	988	984	986	952	949	950	891	889	890
16	1060	1050	1050	985	979	982	950	947	948	890	888	889
17	1060	1050	1050	981	978	979	948	946	947	896	887	889
18	1050	1050	1050	979	973	977	947	944	945	894	887	889
19	1050	1050	1050	977	970	973	944	941	942	889	884	886
20	1050	1050	1050	976	972	974	942	934	938	886	882	884
21	1060	1040	1050	977	973	974	934	926	930	884	882	883
22	1050	1040	1050	973	967	970	927	925	927	884	881	882
23	1050	1040	1050	968	965	966	926	924	925	883	881	882
24	1050	1040	1050	968	964	966	925	923	924	912	881	889
25	1040	1030	1040	965	962	964	923	921	922	918	907	909
26	1040	1030	1040	965	961	963	922	920	921	920	906	909
27	1040	1030	1030	961	958	959	921	919	920	911	906	907
28	1030	1030	1030	959	956	958	920	918	919	907	904	905
29	---	---	---	958	955	956	919	916	918	905	902	903
30	---	---	---	955	953	954	924	916	917	903	894	900
31	---	---	---	955	952	954	---	---	---	897	894	895
MONTH	1100	983	1060	1030	952	983	1000	916	942	921	881	899

HUMBOLDT RIVER BASIN
10335000 HUMBOLDT RIVER NEAR RYE PATCH, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	21.0	---	---
16	---	---	---	---	---	---	---	---	---	21.0	20.5	21.0
17	---	---	---	---	---	---	---	---	---	21.0	20.5	20.5
18	---	---	---	---	---	---	---	---	---	20.5	20.0	20.5
19	---	---	---	---	---	---	---	---	---	20.5	20.0	20.5
20	---	---	---	---	---	---	---	---	---	20.0	19.5	20.0
21	---	---	---	---	---	---	---	---	---	20.0	19.5	19.5
22	---	---	---	---	---	---	---	---	---	20.0	19.5	19.5
23	---	---	---	---	---	---	---	---	---	19.5	19.0	19.5
24	---	---	---	---	---	---	---	---	---	19.5	19.0	19.0
25	---	---	---	---	---	---	---	---	---	19.0	18.5	19.0
26	---	---	---	---	---	---	---	---	---	18.5	18.5	18.5
27	---	---	---	---	---	---	---	---	---	18.5	18.0	18.0
28	---	---	---	---	---	---	---	---	---	18.0	17.5	18.0
29	---	---	---	---	---	---	---	---	---	18.5	17.5	18.0
30	---	---	---	---	---	---	---	---	---	17.5	17.0	17.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.5	17.0	17.0	10.5	10.0	10.5	7.0	6.5	6.5	8.0	4.0	5.5
2	17.0	17.0	17.0	10.5	10.0	10.0	6.5	6.5	6.5	8.5	3.5	5.5
3	17.0	17.0	17.0	10.5	10.0	10.0	6.5	6.0	6.5	7.5	3.5	5.0
4	17.0	16.5	16.5	10.0	10.0	10.0	6.0	5.5	6.0	8.0	2.5	5.0
5	16.5	16.5	16.5	10.0	9.5	10.0	5.5	5.5	5.5	8.0	3.0	5.0
6	16.5	16.0	16.5	9.5	9.5	9.5	5.5	5.0	5.5	8.0	3.0	5.5
7	16.5	16.0	16.0	9.5	9.0	9.5	5.0	5.0	5.0	8.0	3.0	5.0
8	16.0	15.5	15.5	9.5	9.0	9.0	5.0	4.5	5.0	3.5	3.0	3.0
9	16.0	15.5	15.5	9.0	9.0	9.0	5.0	4.5	4.5	3.5	3.0	3.0
10	15.5	15.5	15.5	9.0	8.5	8.5	4.5	4.0	4.5	3.5	3.0	3.0
11	15.5	15.0	15.5	8.5	8.5	8.5	4.5	4.0	4.0	3.5	3.0	3.0
12	15.0	15.0	15.0	8.5	8.0	8.5	4.5	4.0	4.0	3.5	3.0	3.0
13	15.0	14.5	14.5	8.0	8.0	8.0	4.0	4.0	4.0	3.5	3.0	3.0
14	15.0	14.5	14.5	8.0	7.5	8.0	4.0	4.0	4.0	3.5	3.0	3.5
15	15.0	14.5	14.5	8.0	7.5	7.5	4.0	3.5	4.0	5.5	3.5	4.0
16	14.5	13.5	14.0	7.5	7.5	7.5	4.0	3.5	3.5	8.5	5.5	7.0
17	14.0	13.5	13.5	7.5	7.5	7.5	4.0	3.5	3.5	9.0	6.5	7.5
18	13.5	13.0	13.5	7.5	7.5	7.5	3.5	3.0	3.5	8.5	5.0	7.0
19	13.0	13.0	13.0	7.5	7.0	7.5	3.0	3.0	3.0	9.5	6.0	7.5
20	13.0	12.5	12.5	7.0	7.0	7.0	3.0	2.0	2.5	8.5	5.5	7.5
21	12.5	12.0	12.5	7.5	7.0	7.0	2.0	2.0	2.0	7.5	4.5	6.0
22	12.5	12.0	12.0	7.5	7.0	7.0	2.0	2.0	2.0	8.5	4.5	6.5
23	12.0	11.5	12.0	7.5	7.0	7.0	2.0	2.0	2.0	7.0	5.0	6.0
24	11.5	11.5	11.5	7.5	7.0	7.0	2.0	2.0	2.0	6.5	3.0	4.5
25	11.5	11.5	11.5	7.0	7.0	7.0	2.5	2.0	2.0	7.0	3.0	4.5
26	11.5	11.5	11.5	7.0	6.5	7.0	2.0	2.0	2.0	8.5	4.0	6.0
27	11.5	11.5	11.5	7.0	6.5	7.0	2.0	2.0	2.0	9.0	2.5	5.5
28	11.5	11.0	11.5	7.0	6.5	6.5	2.0	2.0	2.0	8.5	5.5	6.5
29	11.0	9.0	11.0	6.5	6.5	6.5	2.5	2.0	2.0	9.0	5.0	6.5
30	11.0	10.5	10.5	7.0	6.5	6.5	6.5	2.0	4.0	9.0	6.0	7.0
31	10.5	10.5	10.5	---	---	---	8.0	4.5	6.0	8.0	6.5	7.0
MONTH	17.5	9.0	13.9	10.5	6.5	8.1	8.0	2.0	3.9	9.5	2.5	5.3

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	10.0	2.0	6.0	4.5	4.0	4.0	7.5	7.0	7.0	9.5	9.0	9.5
2	2.5	2.0	2.5	4.5	4.0	4.0	7.5	7.0	7.0	9.5	9.5	9.5
3	2.5	2.5	2.5	5.0	4.5	4.5	7.0	6.5	7.0	9.5	9.0	9.5
4	3.0	2.5	2.5	4.5	4.5	4.5	7.0	6.5	6.5	10.0	9.5	9.5
5	3.0	2.5	2.5	4.5	4.5	4.5	6.5	6.5	6.5	10.5	9.5	10.0
6	3.0	2.5	3.0	5.0	4.5	4.5	7.0	6.5	6.5	10.5	10.0	10.0
7	3.5	3.0	3.0	8.5	4.5	6.5	7.0	6.5	6.5	11.0	10.0	10.5
8	3.0	3.0	3.0	8.5	6.0	7.0	7.0	6.5	6.5	11.5	10.5	11.0
9	3.0	3.0	3.0	10.5	6.0	8.0	7.0	6.5	6.5	11.5	10.0	11.0
10	3.0	2.5	3.0	10.5	4.5	6.5	6.5	6.5	6.5	11.5	10.5	11.0
11	3.0	2.5	2.5	5.0	4.5	4.5	7.0	6.5	6.5	13.0	11.0	11.5
12	2.5	2.5	2.5	4.5	4.5	4.5	7.5	7.0	7.0	12.5	11.5	12.0
13	2.5	2.5	2.5	4.5	4.5	4.5	8.0	7.0	7.5	13.5	12.0	12.5
14	2.5	2.5	2.5	5.0	4.5	4.5	8.5	8.0	8.0	12.5	11.5	12.0
15	3.0	2.5	2.5	5.0	4.5	5.0	8.5	7.5	8.0	13.0	11.5	12.0
16	3.0	3.0	3.0	5.5	5.0	5.0	8.0	8.0	8.0	12.5	11.5	12.0
17	3.5	3.0	3.0	5.5	5.5	5.5	8.0	7.5	8.0	11.5	11.0	11.5
18	3.5	3.0	3.0	6.0	5.5	5.5	8.0	7.5	7.5	11.5	11.0	11.0
19	3.5	3.0	3.5	6.0	5.5	5.5	7.5	7.5	7.5	13.0	11.0	11.5
20	3.5	3.0	3.0	5.5	5.5	5.5	9.0	7.5	8.5	15.5	11.5	13.0
21	3.5	3.0	3.5	6.0	5.5	5.5	10.0	9.0	9.5	15.0	14.0	14.5
22	3.5	3.0	3.5	6.5	5.5	6.0	9.5	9.5	9.5	14.5	14.0	14.0
23	3.5	3.0	3.5	6.5	6.0	6.5	9.5	9.0	9.5	15.0	13.5	14.0
24	4.0	3.5	3.5	6.5	6.0	6.5	10.0	9.0	9.5	15.5	13.5	14.0
25	4.0	3.5	3.5	6.5	6.0	6.5	10.0	9.5	9.5	14.0	13.5	14.0
26	4.0	3.5	3.5	6.5	6.5	6.5	10.0	9.5	10.0	14.5	13.5	14.0
27	4.0	3.5	4.0	7.5	6.5	7.0	10.0	9.5	9.5	14.5	13.5	14.0
28	4.0	3.5	4.0	7.5	6.5	7.0	10.0	9.5	9.5	14.0	13.5	14.0
29	---	---	---	7.0	6.5	7.0	9.5	9.5	9.5	14.0	13.5	14.0
30	---	---	---	7.5	7.0	7.0	9.5	9.0	9.5	16.0	14.0	15.0
31	---	---	---	7.5	7.0	7.0	---	---	---	16.0	14.5	15.5
MONTH	10.0	2.0	3.1	10.5	4.0	5.7	10.0	6.5	7.9	16.0	9.0	12.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	15.5	14.5	15.0	23.0	16.5	20.0	21.0	20.0	20.5	20.0	19.5	19.5
2	15.5	14.5	15.0	17.0	16.5	16.5	21.0	20.5	20.5	19.5	19.0	19.5
3	15.0	15.0	15.0	18.0	16.0	17.0	21.0	20.0	20.5	19.0	19.0	19.0
4	15.0	15.0	15.0	18.0	17.0	17.5	21.5	20.5	21.0	19.0	18.5	19.0
5	15.0	15.0	15.0	20.0	17.5	19.0	21.0	20.5	21.0	18.5	18.5	18.5
6	15.5	15.0	15.0	19.0	18.5	19.0	21.0	21.0	21.0	18.5	18.0	18.5
7	15.0	15.0	15.0	20.0	19.0	19.5	21.0	20.5	21.0	19.0	18.0	18.5
8	15.5	15.0	15.0	20.5	20.0	20.0	21.0	20.5	20.5	18.5	18.0	18.5
9	16.0	15.0	15.5	20.0	20.0	20.0	21.0	20.5	20.5	18.5	18.0	18.0
10	16.0	15.5	15.5	20.5	20.0	20.0	20.5	20.0	20.5	18.5	18.0	18.5
11	16.0	15.0	15.5	20.5	19.5	20.0	20.5	20.0	20.0	19.0	18.0	18.5
12	16.0	15.0	15.5	21.0	20.0	20.5	20.5	20.0	20.0	19.0	18.0	18.5
13	19.0	15.0	17.0	20.5	20.0	20.5	20.5	20.0	20.0	18.5	18.0	18.0
14	18.0	16.5	17.0	21.0	20.0	20.5	20.0	19.5	20.0	18.5	17.5	18.0
15	17.5	16.0	16.5	21.0	20.0	20.5	20.5	20.0	20.0	18.5	17.5	18.0
16	20.0	17.0	18.0	20.5	20.0	20.5	20.5	19.5	20.0	18.0	17.5	17.5
17	19.5	18.5	19.0	20.5	20.0	20.5	20.0	19.5	20.0	18.0	17.5	17.5
18	18.5	16.5	18.0	21.0	20.0	20.5	20.0	19.5	19.5	17.5	17.0	17.5
19	19.5	17.5	18.0	21.0	20.5	20.5	20.0	19.5	20.0	17.5	17.0	17.5
20	20.0	17.5	19.0	21.0	20.5	20.5	20.0	19.5	19.5	18.0	17.0	17.5
21	21.0	18.0	19.0	20.5	20.5	20.5	20.0	19.5	19.5	18.0	17.0	17.5
22	21.5	20.5	21.0	20.5	20.0	20.5	20.0	19.5	19.5	18.0	17.5	17.5
23	21.0	20.0	20.5	20.5	20.0	20.5	20.0	19.5	19.5	18.0	17.5	17.5
24	20.0	18.5	19.5	20.5	20.0	20.5	20.0	19.5	19.5	18.0	17.5	17.5
25	20.5	18.5	19.5	21.0	20.0	20.5	20.0	19.5	19.5	18.0	17.5	17.5
26	21.0	19.5	20.0	21.0	20.5	20.5	20.0	19.5	19.5	18.0	17.5	17.5
27	21.0	20.0	20.5	21.0	20.5	20.5	20.0	19.5	19.5	17.5	17.0	17.0
28	21.5	20.0	21.0	21.0	20.5	20.5	20.0	19.5	20.0	17.0	16.0	16.5
29	22.5	20.5	21.5	21.0	20.5	20.5	20.0	19.5	20.0	16.0	16.0	16.0
30	23.0	21.5	22.0	21.0	20.5	20.5	20.0	19.5	20.0	16.0	15.5	16.0
31	---	---	---	21.0	20.0	20.5	20.0	19.5	19.5	---	---	---
MONTH	23.0	14.5	17.6	23.0	16.0	20.0	21.5	19.5	20.1	20.0	15.5	17.9
YEAR	23.0	2.0	11.3									

HUMBOLDT RIVER BASIN

10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

LOCATION.--Lat 40°03'08", long 118°27'58", in SE 1/4 NW 1/4 sec.11, T.25 N., R.31 E., Pershing County, Hydrologic Unit 16040108, on left bank, 9 mi south of Lovelock.

DRAINAGE AREA.--16,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1912 to November 1922, April 1923 to September 1927, June 1950 to September 1959, August 1998 to current year.

GAGE.--Water-stage recorder. Prior to August 1998 staff gages and water-stage recorder at sites 700 ft and 150 ft downstream at different datums. Elevation of gage is 3,900 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Rye Patch Reservoir since February 20, 1936 and affected by irrigation in Lovelock Valley. See schematic diagram of Humboldt River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s, May 19, 1952, gage height, 9.36 ft, datum then in use; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--August to September 1998: Maximum discharge, 466 ft³/s, September 10; minimum daily, 18 ft³/s, August 18.

Water year 1999: Maximum discharge, 548 ft³/s, May 24, gage height 6.79 ft; minimum daily, 3.1 ft³/s, September 11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	117
2	---	---	---	---	---	---	---	---	---	---	---	66
3	---	---	---	---	---	---	---	---	---	---	---	30
4	---	---	---	---	---	---	---	---	---	---	---	46
5	---	---	---	---	---	---	---	---	---	---	---	39
6	---	---	---	---	---	---	---	---	---	---	---	66
7	---	---	---	---	---	---	---	---	---	---	---	132
8	---	---	---	---	---	---	---	---	---	---	---	239
9	---	---	---	---	---	---	---	---	---	---	---	341
10	---	---	---	---	---	---	---	---	---	---	---	417
11	---	---	---	---	---	---	---	---	---	---	---	342
12	---	---	---	---	---	---	---	---	---	---	---	324
13	---	---	---	---	---	---	---	---	---	---	61	328
14	---	---	---	---	---	---	---	---	---	---	55	376
15	---	---	---	---	---	---	---	---	---	---	48	376
16	---	---	---	---	---	---	---	---	---	---	32	330
17	---	---	---	---	---	---	---	---	---	---	18	341
18	---	---	---	---	---	---	---	---	---	---	47	339
19	---	---	---	---	---	---	---	---	---	---	104	357
20	---	---	---	---	---	---	---	---	---	---	57	345
21	---	---	---	---	---	---	---	---	---	---	107	356
22	---	---	---	---	---	---	---	---	---	---	120	304
23	---	---	---	---	---	---	---	---	---	---	121	258
24	---	---	---	---	---	---	---	---	---	---	135	226
25	---	---	---	---	---	---	---	---	---	---	102	253
26	---	---	---	---	---	---	---	---	---	---	104	285
27	---	---	---	---	---	---	---	---	---	---	96	335
28	---	---	---	---	---	---	---	---	---	---	145	363
29	---	---	---	---	---	---	---	---	---	---	110	376
30	---	---	---	---	---	---	---	---	---	---	167	380
31	---	---	---	---	---	---	---	---	---	---	132	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	8087
MEAN	---	---	---	---	---	---	---	---	---	---	---	270
MAX	---	---	---	---	---	---	---	---	---	---	---	417
MIN	---	---	---	---	---	---	---	---	---	---	---	30
AC-FT	---	---	---	---	---	---	---	---	---	---	---	16040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1998, BY WATER YEAR (WY)

MEAN	6.01	7.17	13.7	16.9	51.7	60.4	94.6	227	224	121	10.6	17.7
MAX	32.5	46.5	166	262	605	771	1102	2911	1233	868	53.9	270
(WY)	1959	1914	1914	1914	1914	1914	1914	1952	1952	1921	1917	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1917	1917	1917	1913	1912	1912	1912	1912	1916	1916	1916	1916

SUMMARY STATISTICS

WATER YEARS 1912 - 1998

ANNUAL MEAN	74.2
HIGHEST ANNUAL MEAN	475
LOWEST ANNUAL MEAN	.000
HIGHEST DAILY MEAN	3520
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	3540
INSTANTANEOUS PEAK STAGE	9.36
ANNUAL RUNOFF (AC-FT)	53740
10 PERCENT EXCEEDS	96
50 PERCENT EXCEEDS	1.5
90 PERCENT EXCEEDS	.00

HUMBOLDT RIVER BASIN
10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	383	383	296	136	21	531	75	209	257	68	94	30
2	365	373	295	97	23	532	65	212	231	71	90	32
3	394	369	295	77	196	533	79	221	265	130	68	42
4	398	354	298	64	344	534	97	153	343	178	57	26
5	399	338	296	57	404	531	121	35	357	153	70	47
6	407	344	294	47	400	531	120	47	398	119	74	53
7	402	348	295	48	381	537	114	67	416	154	78	21
8	399	377	293	46	262	367	109	156	409	156	32	34
9	373	422	313	106	243	137	99	239	328	178	33	11
10	346	427	326	240	397	96	112	222	309	154	27	4.1
11	330	405	330	250	424	90	140	158	222	94	20	3.1
12	324	363	331	254	431	376	153	144	103	160	31	36
13	345	378	332	258	435	373	84	173	134	92	38	48
14	333	407	333	261	446	378	21	184	104	111	21	29
15	299	408	328	266	466	372	30	253	62	37	9.7	40
16	324	438	324	260	475	331	83	318	145	7.2	8.5	37
17	341	444	319	154	482	326	109	303	117	20	28	44
18	293	435	315	100	486	334	144	259	70	23	20	89
19	288	421	310	57	489	287	146	334	83	29	18	82
20	184	343	308	33	492	274	120	345	101	61	19	78
21	169	314	e308	37	496	317	50	401	117	20	9.2	29
22	246	307	e308	39	501	286	33	404	99	28	39	29
23	302	307	e308	57	520	247	101	481	91	63	37	79
24	346	304	e308	48	525	233	87	438	85	75	20	47
25	392	302	e308	42	527	193	166	186	99	27	8.4	59
26	447	300	e308	37	528	190	202	83	116	38	6.4	56
27	435	300	e308	36	528	215	166	77	103	5.3	26	53
28	415	298	e308	35	524	219	243	128	90	11	17	40
29	395	297	e308	35	---	201	207	213	88	8.2	15	45
30	422	295	e308	22	---	120	217	239	90	24	8.7	42
31	391	---	308	19	---	88	---	262	---	51	40	---
TOTAL	10887	10801	9619	3218	11446	9779	3493	6944	5432	2345.7	1062.9	1265.2
MEAN	351	360	310	104	409	315	116	224	181	75.7	34.3	42.2
MAX	447	444	333	266	528	537	243	481	416	178	94	89
MIN	169	295	293	19	21	88	21	35	62	5.3	6.4	3.1
AC-FT	21590	21420	19080	6380	22700	19400	6930	13770	10770	4650	2110	2510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1999, BY WATER YEAR (WY)

MEAN	19.8	21.3	26.1	20.5	65.8	70.6	95.4	227	222	119	11.5	18.5
MAX	351	360	310	262	605	771	1102	2911	1233	868	53.9	270
(WY)	1999	1999	1999	1914	1914	1914	1914	1952	1952	1921	1917	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1917	1917	1917	1913	1912	1912	1912	1912	1916	1916	1916	1916

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1912 - 1999

ANNUAL TOTAL	76292.8	
ANNUAL MEAN	209	79.8
HIGHEST ANNUAL MEAN		475
LOWEST ANNUAL MEAN		.000
HIGHEST DAILY MEAN	537	Mar 7
LOWEST DAILY MEAN	3.1	Sep 11
ANNUAL SEVEN-DAY MINIMUM	14	Aug 24
INSTANTANEOUS PEAK FLOW	548	May 24
INSTANTANEOUS PEAK STAGE	6.79	May 24
ANNUAL RUNOFF (AC-FT)	151300	57810
10 PERCENT EXCEEDS	418	162
50 PERCENT EXCEEDS	186	1.9
90 PERCENT EXCEEDS	28	.00

e Estimated

WATER TEMPERATURE: Maximum recorded, 28.0°C, July 11; minimum daily, freezing point several days in December and January.

[illegible]

HUMBOLDT RIVER BASIN
10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	933	918	924	1070	1050	1060	1230	1210	1220	---	---	---
2	941	920	933	1090	1070	1070	1220	1190	1210	---	---	---
3	931	924	927	1110	1060	1080	1340	1140	1190	---	---	---
4	932	918	925	1130	1070	1090	1250	1170	1210	---	---	---
5	926	917	922	1100	1080	1090	1230	1190	1210	---	---	---
6	926	914	920	1110	1090	1100	1230	1200	1210	---	---	---
7	925	903	917	1160	1100	1120	1250	1220	1240	---	---	---
8	913	898	906	1160	1140	1140	1240	1190	1210	---	---	---
9	917	902	906	1150	1120	1130	1210	1160	1190	---	---	---
10	936	913	921	1130	1120	1130	1190	1160	1180	1380	1140	1300
11	962	926	945	1130	1100	1120	1190	1180	1180	1390	1360	1380
12	989	940	962	1130	1100	1110	1190	1170	1180	1400	1350	1380
13	986	955	967	1130	1100	1110	1180	1150	1170	1390	1340	1370
14	1020	954	970	1120	1090	1100	1200	1140	1170	1370	1330	1350
15	1100	960	1000	1120	1090	1100	1180	1150	1170	1360	1330	1340
16	1040	973	1010	1120	1100	1100	1180	1150	1160	1360	1330	1350
17	1070	1020	1040	1110	1090	1100	1180	1150	1170	---	---	---
18	1070	1010	1040	1100	1090	1100	1200	1150	1180	---	---	---
19	1200	985	1040	1110	1090	1100	1200	1170	1180	---	---	---
20	1280	1090	1160	1130	1100	1110	1210	1200	1200	---	---	---
21	1320	1050	1220	1200	1130	1170	1480	1210	1320	---	---	---
22	1200	1040	1110	1200	1180	1190	1340	1230	1270	---	---	---
23	1060	1040	1050	1480	1180	1240	1350	1250	1300	---	---	---
24	1050	1020	1030	1280	1270	1280	1280	1220	1250	---	---	---
25	1100	1020	1040	1280	1270	1270	1240	1200	1220	---	---	---
26	1050	1010	1030	1280	1250	1270	1210	1200	1200	---	---	---
27	1040	1000	1020	1260	1250	1260	1200	1180	1190	3220	2960	3110
28	1020	1000	1010	1260	1240	1240	1180	1130	1160	3330	3050	3160
29	1060	990	1010	1240	1230	1230	1160	1140	1160	4070	2890	3120
30	1190	1060	1090	1250	1220	1230	1200	1150	1170	4270	3070	3570
31	1110	1060	1080	---	---	---	1400	1180	1290	4720	4080	4360
MONTH	1320	898	1000	1480	1050	1150	1480	1130	1210	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	4310	3680	4080	1100	1090	1090	1490	1420	1460	1010	999	1010
2	3910	3420	3650	1100	1080	1090	1520	1490	1520	1020	1010	1020
3	4460	2200	2550	1090	1080	1090	1560	1520	1540	1030	1020	1020
4	2200	1970	2110	1090	1080	1090	1570	1560	1570	1310	1020	1080
5	1970	1660	1800	1090	1080	1090	1590	1560	1570	2190	1310	2000
6	1660	1470	1560	1100	1090	1090	1580	1570	1570	2260	2150	2220
7	1470	1360	1410	1100	1090	1090	1590	1570	1580	2150	1960	2040
8	1360	1330	1340	1120	1090	1100	1580	1570	1580	1960	1760	1860
9	1340	1330	1330	1200	1120	1150	1600	1500	1540	1760	1580	1670
10	1360	1320	1340	1320	1200	1260	1520	1500	1510	1580	1460	1520
11	1330	1280	1310	1500	1320	1420	1500	1480	1500	1460	1390	1420
12	1290	1260	1270	1530	1500	1510	1520	1280	1440	1390	1310	1350
13	1260	1240	1250	1510	1360	1430	1370	1280	1320	1310	1260	1280
14	1240	1210	1230	1360	1270	1310	1470	1370	1400	1320	1260	1290
15	1220	1190	1210	1270	1220	1240	1950	1470	1570	1310	1230	1280
16	1200	1180	1190	1220	1190	1200	1950	1420	1610	1230	1190	1200
17	1190	1170	1180	1200	1160	1180	1470	1310	1380	1190	1170	1180
18	1180	1160	1170	1190	1150	1160	1310	1170	1220	---	---	---
19	1160	1140	1150	1200	1160	1180	1280	1120	1170	---	---	---
20	1160	1140	1150	1180	1140	1150	1280	1150	1210	---	---	---
21	1150	1130	1140	1220	1180	1200	1260	1200	1240	---	---	---
22	1140	1130	1130	1230	1170	1200	1300	1260	1270	---	---	---
23	1140	1120	1130	1170	1150	1150	1550	1300	1470	---	---	---
24	1120	1100	1110	1160	1140	1150	1430	1340	1390	---	---	---
25	1110	1090	1100	1270	1150	1190	1340	1110	1170	---	---	---
26	1110	1100	1100	1310	1270	1300	1110	1080	1090	---	---	---
27	1110	1100	1100	1320	1310	1310	1080	1060	1070	---	---	---
28	1110	1090	1100	1310	1300	1300	1070	1050	1060	---	---	---
29	---	---	---	1310	1290	1300	1050	1020	1040	---	---	---
30	---	---	---	1350	1310	1320	1020	1000	1010	---	---	---
31	---	---	---	1420	1350	1390	---	---	---	---	---	---
MONTH	4460	1090	1510	1530	1080	1220	1950	1000	1370	---	---	---

HUMBOLDT RIVER BASIN
10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

[illegible]

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

[illegible]

HUMBOLDT RIVER BASIN
10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.0	14.5	16.5	10.5	9.0	9.5	8.0	6.0	6.5	---	---	---
2	18.5	15.0	16.5	11.5	9.0	10.0	8.0	5.5	6.5	---	---	---
3	17.0	15.0	16.0	11.0	8.5	9.5	6.5	5.0	6.0	---	---	---
4	17.0	13.5	15.0	10.0	8.0	9.0	5.5	3.0	4.5	---	---	---
5	16.0	12.0	14.0	9.5	7.5	8.5	3.0	1.0	2.5	---	---	---
6	16.5	12.5	14.0	8.0	6.5	7.5	3.0	1.0	2.0	---	---	---
7	16.5	12.5	14.5	8.0	6.5	7.0	3.0	.0	1.0	---	---	---
8	16.5	13.5	14.5	8.0	6.5	7.0	3.0	1.0	2.0	---	---	---
9	16.5	13.5	14.5	8.0	6.0	7.0	3.5	.5	1.5	---	---	---
10	15.5	13.0	14.0	7.0	6.5	6.5	2.5	.5	1.5	2.5	.0	1.0
11	15.5	12.0	13.5	8.0	6.0	7.0	2.5	.5	1.5	2.0	.0	1.0
12	15.0	12.0	13.5	8.5	6.0	7.0	4.0	1.0	2.5	3.5	.5	2.0
13	15.5	12.5	14.0	7.5	6.0	6.5	4.5	2.0	3.0	4.0	1.0	2.5
14	15.5	12.5	14.0	8.0	6.0	7.0	5.0	2.5	3.5	4.5	1.5	3.0
15	14.0	12.0	12.5	8.0	6.0	7.0	5.0	2.5	3.5	5.5	3.5	4.0
16	13.0	10.5	11.5	7.5	6.5	7.0	4.5	2.5	3.0	6.0	3.5	4.5
17	12.5	9.5	11.0	7.5	6.5	7.0	4.5	2.0	3.0	---	---	---
18	12.5	9.5	10.5	8.0	6.0	6.5	3.5	1.0	2.5	---	---	---
19	13.0	10.0	11.5	7.0	5.0	6.0	1.0	.0	1.0	---	---	---
20	13.5	8.5	11.0	7.0	5.0	6.0	.5	.0	.0	---	---	---
21	13.5	8.5	11.0	8.5	6.0	7.0	.0	.0	.0	---	---	---
22	14.0	10.5	12.0	8.5	6.5	7.5	.0	.0	.0	---	---	---
23	14.0	10.5	12.0	9.0	6.5	7.5	.0	.0	.0	---	---	---
24	12.0	10.5	11.5	8.0	6.0	7.0	.0	.0	.0	---	---	---
25	10.5	10.0	10.5	7.0	5.5	6.5	.0	.0	.0	---	---	---
26	12.0	9.5	10.5	7.5	4.5	6.0	.0	.0	.0	---	---	---
27	12.5	9.5	11.0	6.5	5.5	6.0	.0	.0	.0	3.5	.5	2.5
28	12.5	11.0	11.5	7.0	5.5	6.0	.0	.0	.0	3.0	.5	2.0
29	11.0	9.5	10.0	7.0	5.5	6.0	.0	.0	.0	4.0	.0	2.0
30	10.5	8.5	9.5	7.5	5.0	6.5	.5	.0	.0	4.0	1.5	2.5
31	10.5	7.5	9.0	---	---	---	3.0	.5	1.5	4.0	1.5	2.5
MONTH	19.0	7.5	12.6	11.5	4.5	7.2	8.0	.0	1.9	---	---	---
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	5.5	1.0	3.0	8.5	5.5	7.0	8.5	4.0	6.0	15.0	8.5	11.5
2	5.0	1.5	3.5	8.0	5.0	6.5	8.5	3.5	6.0	13.5	11.0	11.5
3	5.5	2.0	3.5	7.5	5.0	6.0	7.5	3.5	4.5	14.0	10.5	12.0
4	4.5	2.5	3.5	6.5	5.0	5.5	5.5	3.0	3.5	14.5	9.0	11.5
5	5.5	3.5	4.0	6.0	3.5	5.0	5.5	5.0	5.5	16.5	10.5	13.0
6	4.5	4.0	4.0	6.0	2.5	4.5	6.5	4.5	5.5	19.0	13.0	15.5
7	5.5	4.0	4.5	6.0	3.5	4.5	9.0	4.5	6.5	19.5	13.0	16.5
8	5.0	3.5	4.0	5.5	3.5	4.5	9.0	5.5	6.5	19.0	10.5	14.5
9	4.5	2.5	4.0	6.5	3.0	4.5	9.0	4.5	6.0	15.5	10.0	12.5
10	3.5	1.0	2.0	7.5	1.5	4.5	9.0	5.0	7.0	15.0	10.0	12.5
11	3.0	.0	1.5	8.0	4.0	6.5	12.0	7.0	8.5	17.5	11.0	14.0
12	3.0	1.0	2.0	7.5	3.5	5.5	14.0	6.0	9.5	17.5	13.0	15.0
13	3.0	2.0	2.5	7.0	3.5	5.0	16.0	7.5	11.5	18.0	11.5	14.5
14	4.5	2.0	3.0	7.5	4.5	5.5	15.0	8.5	12.0	16.0	11.0	13.5
15	5.0	1.5	3.0	8.0	5.0	6.5	16.5	8.5	12.0	16.5	11.0	13.5
16	4.0	3.0	3.5	9.0	5.0	7.0	15.0	8.0	11.5	15.5	10.5	13.0
17	5.5	3.5	4.5	9.5	4.5	7.0	15.0	9.5	12.0	17.5	12.0	14.5
18	6.0	4.0	5.0	10.0	6.0	8.0	15.0	10.0	12.5	---	---	---
19	6.5	3.5	5.0	9.0	6.0	7.5	15.5	10.5	12.5	---	---	---
20	4.5	2.5	3.5	8.0	6.0	7.0	16.0	11.0	13.5	---	---	---
21	4.5	3.0	4.0	9.5	5.0	6.5	15.0	10.5	12.0	---	---	---
22	5.0	3.0	4.0	10.0	4.5	7.0	12.0	9.0	10.5	---	---	---
23	5.5	3.0	4.0	11.0	6.0	8.0	13.0	7.5	9.5	---	---	---
24	7.0	3.5	5.0	12.0	6.0	8.5	14.5	9.5	11.5	---	---	---
25	6.5	4.5	5.5	12.0	7.0	9.5	16.0	10.5	13.0	---	---	---
26	5.5	3.5	4.5	12.5	8.0	10.0	14.0	12.0	13.0	---	---	---
27	6.5	3.5	4.5	12.0	6.5	9.0	15.0	10.0	12.5	---	---	---
28	8.0	4.0	6.0	10.5	6.0	8.0	12.5	9.0	10.5	---	---	---
29	---	---	---	9.0	6.0	7.5	10.0	7.5	8.5	---	---	---
30	---	---	---	10.0	4.5	7.0	11.0	8.0	9.0	---	---	---
31	---	---	---	8.0	4.0	6.5	---	---	---	---	---	---
MONTH	8.0	.0	3.8	12.5	1.5	6.6	16.5	3.0	9.4	---	---	---

HUMBOLDT RIVER BASIN
10336000 HUMBOLDT RIVER NEAR LOVELOCK, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	26.5	20.5	23.5	20.5	16.0	17.5
2	---	---	---	---	---	---	26.5	20.0	23.0	20.5	16.0	18.0
3	---	---	---	24.0	19.0	22.0	27.0	21.0	24.0	21.0	15.0	18.0
4	---	---	---	23.5	17.5	20.5	26.5	21.0	24.0	21.5	15.0	17.5
5	---	---	---	24.0	17.0	20.0	26.0	20.0	23.0	22.0	15.0	18.0
6	---	---	---	25.5	17.5	21.5	24.5	18.5	20.0	22.0	15.5	19.0
7	---	---	---	26.0	19.5	22.5	23.0	17.0	19.5	22.0	18.0	19.5
8	---	---	---	25.0	15.5	21.0	23.0	20.0	21.5	21.0	17.5	19.0
9	---	---	---	25.5	18.0	22.0	22.0	20.0	21.0	23.5	17.5	20.5
10	---	---	---	25.0	19.5	22.0	23.0	18.5	21.5	22.5	16.5	19.5
11	---	---	---	28.0	21.0	24.0	22.0	18.0	20.0	24.0	12.5	17.0
12	---	---	---	27.0	20.5	24.0	23.0	19.0	21.5	20.0	15.5	17.5
13	---	---	---	26.0	21.5	23.5	24.5	21.0	22.5	20.5	17.0	18.5
14	---	---	---	26.0	20.5	23.5	23.0	20.0	22.0	20.5	18.5	20.0
15	---	---	---	25.5	20.0	23.0	24.0	18.0	21.0	20.5	17.5	19.5
16	---	---	---	26.5	21.0	23.5	24.0	19.0	21.5	20.5	17.0	19.5
17	---	---	---	25.0	21.0	22.0	24.5	19.5	21.0	21.0	17.5	19.5
18	---	---	---	25.0	20.0	22.5	24.5	20.5	21.5	22.0	17.0	19.0
19	---	---	---	25.5	20.0	22.5	23.5	21.0	22.0	22.5	17.0	19.0
20	---	---	---	25.0	19.5	22.5	24.0	21.0	22.0	22.5	17.0	19.0
21	---	---	---	24.5	20.5	22.5	23.0	21.0	22.0	21.0	18.0	20.0
22	---	---	---	26.0	19.5	22.5	25.5	19.0	22.0	19.5	15.5	18.0
23	---	---	---	25.5	19.0	22.5	25.5	19.5	22.0	22.0	16.0	18.5
24	---	---	---	25.0	19.0	22.5	24.5	19.0	21.5	22.0	17.0	19.0
25	---	---	---	25.5	19.0	22.5	24.5	21.0	21.5	21.5	16.5	18.5
26	---	---	---	25.0	19.0	22.0	26.5	19.0	22.0	21.5	14.0	16.5
27	---	---	---	26.0	18.5	22.5	24.5	20.0	22.0	17.5	12.0	13.5
28	---	---	---	26.0	23.5	24.5	24.5	19.5	22.0	14.0	11.0	13.0
29	---	---	---	26.5	23.0	25.0	24.0	19.5	21.5	15.0	11.5	13.5
30	---	---	---	26.0	23.0	24.5	22.5	19.5	20.0	16.5	13.5	15.5
31	---	---	---	26.5	22.0	24.5	21.0	14.5	17.5	---	---	---
MONTH	---	---	---	---	---	---	27.0	14.5	21.6	24.0	11.0	18.0

HUMBOLDT RIVER BASIN

10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV

LOCATION.--Lat 40°05'01", long 118°34'43", in NW 1/4 NE 1/4 sec.35, T.26 N., R.30 E., Pershing County, Hydrologic Unit 16040108, on left bank, approximately 12 mi southwest of Lovelock.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 3,900 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT PERIOD.--July to September 1998: Maximum daily discharge, 41 ft³/s, September 4; minimum daily, 13 ft³/s, August 4, 5, 12-14.

Water year 1999: Maximum daily discharge, 40 ft³/s, May 19; minimum daily, 4.2 ft³/s, March 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	18	25
2	---	---	---	---	---	---	---	---	---	---	16	24
3	---	---	---	---	---	---	---	---	---	---	14	30
4	---	---	---	---	---	---	---	---	---	---	13	41
5	---	---	---	---	---	---	---	---	---	---	13	33
6	---	---	---	---	---	---	---	---	---	---	14	30
7	---	---	---	---	---	---	---	---	---	---	16	30
8	---	---	---	---	---	---	---	---	---	---	16	28
9	---	---	---	---	---	---	---	---	---	---	17	28
10	---	---	---	---	---	---	---	---	---	---	15	32
11	---	---	---	---	---	---	---	---	---	---	14	26
12	---	---	---	---	---	---	---	---	---	---	13	24
13	---	---	---	---	---	---	---	---	---	---	13	23
14	---	---	---	---	---	---	---	---	---	---	13	21
15	---	---	---	---	---	---	---	---	---	22	14	21
16	---	---	---	---	---	---	---	---	---	21	15	20
17	---	---	---	---	---	---	---	---	---	20	16	20
18	---	---	---	---	---	---	---	---	---	19	20	19
19	---	---	---	---	---	---	---	---	---	18	20	19
20	---	---	---	---	---	---	---	---	---	18	21	18
21	---	---	---	---	---	---	---	---	---	18	25	17
22	---	---	---	---	---	---	---	---	---	17	22	16
23	---	---	---	---	---	---	---	---	---	17	20	22
24	---	---	---	---	---	---	---	---	---	22	18	27
25	---	---	---	---	---	---	---	---	---	29	19	24
26	---	---	---	---	---	---	---	---	---	27	17	23
27	---	---	---	---	---	---	---	---	---	25	26	24
28	---	---	---	---	---	---	---	---	---	22	25	25
29	---	---	---	---	---	---	---	---	---	22	23	23
30	---	---	---	---	---	---	---	---	---	22	28	24
31	---	---	---	---	---	---	---	---	---	20	27	---
TOTAL	---	---	---	---	---	---	---	---	---	359	561	737
MEAN	---	---	---	---	---	---	---	---	---	21.1	18.1	24.6
MAX	---	---	---	---	---	---	---	---	---	29	28	41
MIN	---	---	---	---	---	---	---	---	---	17	13	16
AC-FT	---	---	---	---	---	---	---	---	---	712	1110	1460

SUMMARY STATISTICS

FOR 1998 WATER YEAR

HIGHEST DAILY MEAN	41	Sep 4
LOWEST DAILY MEAN	13	Aug 4
ANNUAL SEVEN-DAY MINIMUM	14	Aug 10
INSTANTANEOUS PEAK FLOW	43	Sep 4
INSTANTANEOUS PEAK STAGE	4.34	Sep 4
10 PERCENT EXCEEDS	28	
50 PERCENT EXCEEDS	21	
90 PERCENT EXCEEDS	14	

HUMBOLDT RIVER BASIN

10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	13	e9.0	6.2	5.2	6.5	18	20	21	21	16
2	21	16	12	e9.0	6.2	5.1	6.7	17	26	20	19	16
3	20	15	13	e9.0	6.3	5.0	8.0	17	23	20	19	15
4	19	15	13	e9.0	6.3	4.9	8.3	16	21	22	19	16
5	18	17	e12	e9.0	6.1	4.7	8.0	17	19	21	19	15
6	18	16	e12	e9.0	6.0	4.8	8.4	17	18	19	18	15
7	19	16	e12	e9.0	6.3	4.8	7.8	16	17	18	19	14
8	18	16	e12	e9.0	6.0	4.6	7.8	15	17	19	19	14
9	18	15	e12	e9.0	6.0	4.5	8.0	16	17	18	20	13
10	17	15	e12	e9.0	6.1	4.5	8.1	15	17	19	20	14
11	16	15	e12	e9.0	6.3	4.5	7.3	15	17	21	21	13
12	16	15	12	9.0	5.8	4.3	7.0	16	20	19	20	13
13	16	17	12	8.9	5.7	4.3	7.4	21	20	18	19	15
14	15	15	12	8.9	5.7	4.4	12	26	18	19	20	15
15	14	15	11	8.9	5.7	4.3	14	27	19	21	21	14
16	14	15	11	9.1	5.8	4.3	15	26	18	22	22	14
17	13	15	11	9.0	5.8	4.2	19	27	19	21	24	14
18	14	14	10	8.8	6.0	5.6	19	38	21	23	25	14
19	14	14	e10	8.8	5.7	6.5	19	40	22	22	22	15
20	15	15	e10	8.9	7.5	6.2	18	31	22	22	22	12
21	20	15	e10	8.7	8.5	6.7	24	29	21	20	26	12
22	19	14	e10	8.8	8.1	6.3	20	30	20	18	24	12
23	17	14	e10	9.0	7.8	6.7	21	29	21	16	22	11
24	17	14	e10	8.8	7.0	7.0	23	28	21	15	18	11
25	18	13	e10	7.9	5.6	7.3	24	26	21	15	17	10
26	17	14	e10	6.5	5.4	7.6	24	25	24	13	17	11
27	16	14	e10	6.3	5.3	7.3	26	28	25	12	17	12
28	16	13	e10	6.5	5.2	6.4	21	26	24	11	17	12
29	17	13	e10	6.8	---	6.2	19	25	23	13	18	11
30	17	13	10	6.5	---	6.6	19	24	21	15	16	12
31	16	---	10	6.3	---	6.7	---	22	---	19	16	---
TOTAL	528	444	344	261.4	174.4	171.5	436.3	723	612	572	617	401
MEAN	17.0	14.8	11.1	8.43	6.23	5.53	14.5	23.3	20.4	18.5	19.9	13.4
MAX	23	17	13	9.1	8.5	7.6	26	40	26	23	26	16
MIN	13	13	10	6.3	5.2	4.2	6.5	15	17	11	16	10
AC-FT	1050	881	682	518	346	340	865	1430	1210	1130	1220	795

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

MEAN	17.0	14.8	11.1	8.43	6.23	5.53	14.5	23.3	20.4	18.5	19.0	19.0
MAX	17.0	14.8	11.1	8.43	6.23	5.53	14.5	23.3	20.4	18.5	19.9	24.6
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998
MIN	17.0	14.8	11.1	8.43	6.23	5.53	14.5	23.3	20.4	18.5	18.1	13.4
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1999

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1998 - 1999

ANNUAL TOTAL						5284.6						
ANNUAL MEAN						14.5				14.5		
HIGHEST ANNUAL MEAN										14.5		1999
LOWEST ANNUAL MEAN										14.5		1999
HIGHEST DAILY MEAN				41	Sep 4		40	May 19		41	Sep 4	1998
LOWEST DAILY MEAN				10	Dec 18		4.2	Mar 17		4.2	Mar 17	1999
ANNUAL SEVEN-DAY MINIMUM				10	Dec 18		4.3	Mar 11		4.3	Mar 11	1999
INSTANTANEOUS PEAK FLOW							41	May 19		43	Sep 4	1998
INSTANTANEOUS PEAK STAGE							3.71	Jun 26		4.34	Sep 4	1998
ANNUAL RUNOFF (AC-FT)							10480			10490		
10 PERCENT EXCEEDS				25			22			24		
50 PERCENT EXCEEDS				16			15			16		
90 PERCENT EXCEEDS				11			6.2			6.3		

e Estimated

HUMBOLDT RIVER BASIN
10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV
WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1998 to current year.

WATER TEMPERATURE: July 1998 to current year.

INSTRUMENTATION.--Specific conductance and water temperature monitor July 1998 to current year, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 4,550 microsiemens, March 30, 1999; minimum, 2,130 microsiemens, November 13, 1998.

WATER TEMPERATURE: Maximum, 27.0°C, July 18, 20, 26-28, 1998; minimum, freezing point several days December 1998, January 1999.

EXTREMES FOR WATER YEAR 1998.--

SPECIFIC CONDUCTANCE: Maximum recorded, 3,080 microsiemens, August 6; minimum recorded, 2,300 microsiemens, July 16.

WATER TEMPERATURE: Maximum recorded, 27.0°C, July 18, 20, 26-28; minimum recorded, 12.5°C, September 27.

EXTREMES FOR WATER YEAR 1999.--

SPECIFIC CONDUCTANCE: Maximum, 4,550 microsiemens, March 30; minimum, 2,130 microsiemens, November 13.

WATER TEMPERATURE: Maximum, 26.0°C, July 12; minimum, freezing point several days in December and January.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	2990	2900	2960	2880	2850	2860
2	---	---	---	---	---	---	2980	2870	2930	2890	2850	2860
3	---	---	---	---	---	---	3000	2940	2960	2900	2860	2880
4	---	---	---	---	---	---	3010	2950	2970	2900	2880	2890
5	---	---	---	---	---	---	2970	2900	2940	2900	2870	2880
6	---	---	---	---	---	---	3080	2930	2980	2900	2860	2880
7	---	---	---	---	---	---	2940	2740	2830	2900	2870	2880
8	---	---	---	---	---	---	2840	2770	2800	2910	2870	2890
9	---	---	---	---	---	---	2820	2690	2740	2900	2880	2890
10	---	---	---	---	---	---	2860	2710	2780	2920	2880	2900
11	---	---	---	---	---	---	2890	2820	2850	2940	2900	2920
12	---	---	---	---	---	---	2940	2840	2870	2970	2920	2940
13	---	---	---	---	---	---	3040	2940	3010	2990	2950	2970
14	---	---	---	---	---	---	3020	2970	3000	2990	2810	2930
15	---	---	---	2810	2380	2710	2970	2890	2920	2810	2690	2730
16	---	---	---	2780	2300	2580	2890	2760	2820	2750	2680	2710
17	---	---	---	2820	2590	2710	2790	2750	2770	2800	2640	2700
18	---	---	---	2740	2700	2720	2830	2750	2780	2900	2800	2850
19	---	---	---	2850	2700	2780	2780	2700	2740	2940	2840	2880
20	---	---	---	2790	2490	2580	2740	2690	2710	2960	2920	2940
21	---	---	---	2670	2620	2650	2720	2680	2700	3020	2880	2940
22	---	---	---	2740	2630	2670	2700	2660	2670	2940	2750	2880
23	---	---	---	2750	2600	2640	2720	2660	2690	2750	2600	2680
24	---	---	---	2690	2480	2620	2780	2710	2750	2600	2400	2460
25	---	---	---	2590	2360	2470	2810	2760	2780	2540	2390	2460
26	---	---	---	2670	2570	2610	2870	2790	2840	2560	2540	2550
27	---	---	---	2690	2670	2680	2950	2860	2900	2550	2470	2500
28	---	---	---	2760	2670	2720	2960	2830	2900	2470	2370	2430
29	---	---	---	2800	2600	2730	2880	2830	2850	2490	2390	2460
30	---	---	---	2870	2580	2770	2890	2850	2870	2500	2460	2490
31	---	---	---	2900	2730	2850	2880	2850	2860	---	---	---
MONTH	---	---	---	---	---	---	3080	2660	2840	3020	2370	2770

HUMBOLDT RIVER BASIN
10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	2510	2420	2460	3100	2990	3060	2930	2900	2920	3480	3430	3460
2	2580	2510	2550	3090	2910	2990	2940	2920	2930	3500	3440	3470
3	2610	2570	2590	3100	3030	3060	2960	2930	2940	3510	3410	3470
4	2650	2600	2630	3070	3040	3060	2950	2900	2920	3520	3460	3490
5	2700	2630	2680	3090	2440	2850	2940	2820	2890	3540	3480	3510
6	2720	2680	2690	2960	2600	2880	2870	2820	2850	3560	3520	3540
7	2720	2680	2690	3010	2900	2960	2880	2770	2830	3600	3550	3580
8	2750	2700	2730	3030	2990	3010	2860	2800	2840	3620	3560	3590
9	2770	2720	2740	3040	2990	3020	2890	2770	2840	3630	3550	3600
10	2800	2740	2770	3040	2990	3020	2860	2530	2710	3660	3570	3620
11	2830	2780	2800	3010	2900	2960	2600	2540	2570	3670	3610	3650
12	2860	2810	2840	2960	2790	2910	2670	2580	2630	3690	3650	3670
13	2880	2830	2860	3150	2130	2590	2740	2670	2710	3740	3690	3720
14	2900	2820	2860	2900	2750	2870	2980	2740	2820	3750	3730	3740
15	2960	2900	2940	2960	2870	2920	3130	2980	3060	3780	3750	3760
16	3010	2960	2990	2930	2900	2920	3170	2980	3090	3800	3770	3790
17	3030	3000	3020	2940	2910	2930	3300	3050	3140	3820	3800	3810
18	3060	3010	3040	2940	2890	2920	3460	3210	3300	3840	3810	3830
19	3060	3040	3050	2920	2880	2900	3460	3210	3340	3860	3830	3850
20	3090	3030	3060	2930	2830	2870	3510	3320	3450	3880	3850	3870
21	3030	2760	2900	2860	2820	2830	3620	3480	3550	3890	3870	3880
22	2760	2670	2710	2900	2850	2880	3560	3490	3530	3890	3840	3860
23	2960	2720	2860	2950	2890	2920	3610	3540	3570	3890	3810	3860
24	2990	2960	2970	2960	2880	2920	3610	3520	3560	3860	3810	3830
25	2990	2910	2950	2920	2870	2910	3520	3430	3480	3900	3790	3860
26	2990	2890	2940	2920	2840	2880	3440	3380	3410	3900	3830	3880
27	3100	2990	3060	2880	2840	2860	3420	3390	3400	4030	3500	3830
28	3110	3080	3100	2900	2860	2880	3420	3380	3400	4070	3480	3810
29	3100	2990	3060	2910	2880	2900	3400	3380	3390	4080	3420	3790
30	3000	2830	2910	2920	2890	2910	3420	3380	3400	4020	3490	3730
31	3120	2980	3080	---	---	---	3460	3410	3430	4000	3540	3780
MONTH	3120	2420	2860	3150	2130	2920	3620	2530	3130	4080	3410	3710
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3790	3470	3700	4450	4390	4420	4090	3880	4000	2900	2820	2860
2	3810	3480	3680	4430	4370	4390	4170	4040	4110	2890	2850	2870
3	3800	3490	3680	4440	4360	4400	4160	3890	4010	2890	2840	2870
4	3740	3620	3700	4440	4360	4390	4060	3050	3680	2920	2840	2880
5	3790	3680	3730	4440	4340	4380	3990	3830	3920	2920	2670	2840
6	3820	3720	3770	4390	4310	4360	3990	3680	3800	2810	2670	2740
7	3940	3620	3720	4390	4330	4360	3950	3830	3900	2760	2620	2670
8	3800	3680	3760	4370	4340	4350	3940	3660	3860	2700	2610	2650
9	3810	3740	3770	4390	4320	4350	3700	3610	3630	2730	2660	2690
10	3900	3570	3770	4390	4350	4370	3740	3550	3630	2750	2700	2730
11	4120	3710	3900	4350	4320	4340	3620	3550	3580	2810	2740	2770
12	3990	3660	3860	4370	4320	4340	3620	3540	3580	2780	2650	2690
13	4010	3860	3920	4360	4250	4340	3580	3270	3510	2710	2660	2680
14	3990	3860	3910	4380	4320	4350	3360	3070	3210	2870	2520	2700
15	4000	3880	3930	4400	4330	4360	3110	2930	3020	2970	2490	2730
16	4000	3930	3970	4400	4300	4350	2980	2780	2920	2720	2570	2640
17	4070	3980	4020	4390	4270	4310	2780	2720	2740	2830	2720	2770
18	4070	3880	3990	4420	3700	4270	2740	2650	2700	2880	2830	2850
19	4080	3880	3990	3700	3250	3390	2660	2540	2590	2860	2810	2830
20	4200	4050	4120	4030	3500	3770	2740	2640	2700	2900	2820	2850
21	4120	4040	4080	3720	3400	3590	2750	2720	2740	2880	2790	2840
22	4080	4040	4060	3720	3400	3580	2800	2660	2750	2810	2760	2780
23	4140	4060	4100	3770	3540	3670	2810	2700	2780	2830	2770	2800
24	4240	4110	4170	4250	3750	4030	2710	2580	2660	2850	2800	2830
25	4430	4200	4310	4310	4170	4240	2640	2560	2600	2880	2840	2860
26	4450	4400	4430	4350	4000	4210	2690	2620	2660	2900	2840	2870
27	4460	4420	4440	4200	3850	4040	2770	2390	2590	2870	2640	2770
28	4470	4410	4440	4350	4120	4240	2480	2440	2460	2660	2580	2620
29	---	---	---	4370	4320	4350	2800	2470	2640	2750	2660	2700
30	---	---	---	4550	4220	4410	2850	2790	2820	2810	2740	2780
31	---	---	---	4440	3690	4050	---	---	---	2880	2800	2840
MONTH	4470	3470	3960	4550	3250	4190	4170	2390	3190	2970	2490	2770

HUMBOLDT RIVER BASIN
10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	2910	2860	2890	3040	2940	3010	2790	2720	2750	2840	2820	2830
2	2910	2730	2870	3050	2990	3020	2770	2710	2740	2850	2830	2840
3	2790	2720	2760	3040	2970	3010	2810	2750	2780	2870	2840	2850
4	2840	2780	2820	2970	2750	2840	2830	2780	2800	2880	2850	2870
5	2920	2840	2870	2800	2740	2770	2840	2780	2810	2910	2870	2880
6	3000	2920	2960	2780	2710	2750	2810	2790	2800	2920	2880	2900
7	3080	3000	3040	2810	2740	2780	2820	2780	2800	2930	2900	2910
8	3120	3060	3090	2820	2500	2720	2820	2770	2790	2940	2910	2920
9	3110	3070	3090	2740	2520	2640	2800	2610	2740	2940	2910	2920
10	3140	3080	3110	2660	2470	2560	2820	2620	2760	2940	2920	2930
11	3140	3070	3110	2690	2410	2550	2840	2610	2740	2950	2920	2930
12	3090	3000	3050	2760	2600	2680	2920	2840	2880	2950	2920	2930
13	3060	2710	2880	2810	2730	2770	2960	2900	2930	2960	2930	2940
14	3060	2830	2960	2840	2740	2790	2960	2920	2940	2970	2940	2960
15	3110	2780	2970	2890	2830	2860	2960	2920	2940	2980	2950	2960
16	3160	2850	3050	2840	2650	2740	2940	2900	2920	2980	2950	2970
17	3470	2900	3140	2830	2650	2730	2910	2860	2880	3000	2960	2970
18	2910	2690	2850	2850	2730	2780	2870	2840	2860	2980	2960	2970
19	2690	2510	2560	2940	2760	2860	2850	2820	2840	3000	2960	2980
20	2800	2530	2690	3100	2740	2880	2840	2810	2820	3010	2970	2990
21	2880	2750	2800	2950	2720	2840	2830	2800	2810	3010	2970	2990
22	2830	2730	2780	3010	2780	2910	2820	2800	2810	3000	2970	2980
23	2820	2650	2760	3030	2860	2980	2800	2780	2790	3020	2970	2990
24	2800	2610	2710	3000	2820	2940	2800	2770	2790	3020	2970	2990
25	2780	2730	2760	2820	2700	2770	2800	2780	2790	3020	2970	2990
26	2790	2580	2710	2830	2710	2780	2810	2780	2790	3020	2980	2990
27	2650	2530	2600	2820	2760	2790	2810	2780	2800	3020	2980	3000
28	2770	2640	2690	2880	2800	2830	2820	2800	2810	3030	2990	3010
29	2770	2690	2720	2940	2820	2870	2830	2800	2810	3050	3000	3020
30	2950	2770	2890	2880	2660	2800	2830	2800	2820	3060	3020	3030
31	---	---	---	2750	2660	2700	2840	2810	2830	---	---	---
MONTH	3470	2510	2870	3100	2410	2800	2960	2610	2820	3060	2820	2950
YEAR	4550	2130	3180									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	24.0	19.0	21.5	23.5	19.5	21.5
2	---	---	---	---	---	---	25.5	20.0	22.5	23.5	19.5	21.5
3	---	---	---	---	---	---	25.5	20.5	23.0	23.5	19.5	21.5
4	---	---	---	---	---	---	26.0	20.5	23.0	23.5	20.5	22.0
5	---	---	---	---	---	---	26.5	21.5	23.5	23.0	20.5	21.5
6	---	---	---	---	---	---	26.5	22.0	24.0	24.0	20.0	21.5
7	---	---	---	---	---	---	26.0	21.5	23.5	23.5	20.5	21.5
8	---	---	---	---	---	---	25.5	20.5	22.5	23.5	19.5	21.0
9	---	---	---	---	---	---	25.0	20.0	22.0	20.5	16.5	19.0
10	---	---	---	---	---	---	25.0	19.5	22.0	19.5	16.0	17.5
11	---	---	---	---	---	---	25.5	20.5	22.5	21.0	16.5	18.5
12	---	---	---	---	---	---	26.0	20.5	23.0	22.0	18.0	19.5
13	---	---	---	---	---	---	26.0	21.0	23.5	22.5	18.0	20.0
14	---	---	---	---	---	---	26.0	21.0	23.0	22.5	18.0	20.0
15	---	---	---	26.0	---	---	25.5	20.5	22.5	23.0	18.0	20.0
16	---	---	---	26.0	21.5	23.5	25.0	20.5	22.5	23.0	18.0	20.0
17	---	---	---	26.5	21.5	24.0	24.5	19.5	22.0	23.0	18.5	20.0
18	---	---	---	27.0	22.5	24.5	23.5	19.5	21.0	20.5	16.5	18.5
19	---	---	---	26.5	22.5	24.0	23.5	19.0	21.0	19.0	14.5	16.5
20	---	---	---	27.0	22.5	24.5	23.0	18.5	20.5	18.5	14.5	16.5
21	---	---	---	26.0	22.5	24.0	22.0	18.5	20.0	19.5	14.5	16.5
22	---	---	---	25.5	22.5	23.5	22.0	18.0	19.5	18.0	14.0	16.0
23	---	---	---	25.5	22.0	23.0	22.0	17.5	19.5	18.0	14.5	16.0
24	---	---	---	26.5	21.5	23.5	22.0	17.0	19.0	19.0	14.5	16.5
25	---	---	---	26.5	23.0	24.5	22.0	17.5	19.5	16.0	14.5	15.5
26	---	---	---	27.0	23.0	24.5	23.0	18.0	20.0	14.5	13.0	13.5
27	---	---	---	27.0	23.0	24.5	22.0	18.0	19.5	17.0	12.5	14.0
28	---	---	---	27.0	23.0	24.5	22.0	18.0	20.0	18.0	13.5	15.0
29	---	---	---	26.5	23.0	24.0	23.5	18.5	20.5	16.5	13.5	15.0
30	---	---	---	25.5	21.0	23.0	23.5	20.0	21.0	16.0	13.0	14.0
31	---	---	---	23.5	20.5	21.5	23.5	19.5	21.0	---	---	---
MONTH	---	---	---	---	---	---	26.5	17.0	21.6	24.0	12.5	18.3

HUMBOLDT RIVER BASIN
10336035 TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.0	13.0	15.0	11.0	8.0	9.0	9.0	6.0	7.0	4.0	.0	1.5
2	17.0	13.5	15.0	11.5	7.0	8.5	8.5	5.0	6.5	2.5	.0	.5
3	15.5	12.5	13.5	10.0	6.5	8.0	7.0	5.0	6.0	2.0	.0	.5
4	14.5	10.5	12.0	10.0	6.5	8.0	5.5	1.5	4.0	.5	.0	.0
5	14.5	9.5	11.5	8.5	6.0	7.0	1.5	.0	1.0	2.5	.0	.5
6	14.5	9.5	12.0	7.0	5.0	6.0	3.5	.0	1.0	2.5	.0	1.0
7	15.5	10.0	12.0	7.0	4.5	5.5	.5	.0	.0	4.0	.0	1.5
8	15.5	10.5	12.5	7.5	5.0	6.0	3.0	.0	1.0	3.5	.0	1.0
9	15.0	10.0	12.0	6.5	4.0	5.0	2.5	.0	.5	2.0	.0	.5
10	14.5	10.0	11.5	5.5	4.0	4.5	.5	.0	.0	2.5	.0	.5
11	13.5	9.0	11.0	7.5	4.5	5.5	2.0	.0	.5	1.5	.0	.5
12	13.0	9.0	11.0	7.5	4.5	5.5	4.0	.5	2.0	4.0	.0	2.0
13	14.5	10.0	12.0	7.0	4.5	5.5	4.0	1.0	2.5	5.5	1.5	3.0
14	15.0	10.5	12.0	8.0	4.5	6.0	5.5	2.5	3.5	4.5	.5	2.5
15	12.0	8.5	10.5	8.5	5.0	6.5	5.0	1.5	3.0	8.0	3.5	5.0
16	12.0	7.0	9.0	7.5	5.0	6.0	4.5	.5	2.5	8.5	4.5	5.5
17	11.0	5.5	8.0	8.0	6.0	6.5	4.5	.5	2.0	7.5	4.5	5.5
18	11.0	6.0	8.0	8.5	5.0	6.0	3.5	.0	1.5	6.5	4.5	5.0
19	12.5	7.5	9.5	7.0	3.5	4.5	1.0	.0	.0	8.0	3.5	5.5
20	12.5	8.0	9.5	6.5	3.5	5.0	.0	.0	.0	7.0	4.0	5.5
21	12.5	8.5	10.0	9.0	5.5	7.0	.0	.0	.0	5.0	2.0	3.5
22	14.0	9.5	11.0	9.5	7.0	8.0	.0	.0	.0	7.0	2.5	4.0
23	13.0	8.5	10.5	9.0	6.5	7.5	.0	.0	.0	4.5	2.5	4.0
24	10.5	9.5	10.0	8.0	5.0	6.5	.0	.0	.0	5.0	.5	2.0
25	10.0	8.5	9.0	7.0	5.0	6.0	.0	.0	.0	4.5	.5	2.0
26	12.5	8.5	10.0	6.5	3.5	5.0	.0	.0	.0	7.0	1.5	3.0
27	12.5	9.0	10.5	7.5	5.5	6.5	.0	.0	.0	6.0	.0	2.0
28	12.5	10.0	11.0	7.0	6.0	6.5	.0	.0	.0	4.0	.0	1.5
29	10.0	7.5	9.0	7.0	5.5	6.5	1.5	.0	.5	3.5	.0	1.0
30	10.0	6.0	7.5	8.5	4.5	6.0	2.5	.0	1.0	4.0	.0	1.5
31	10.0	5.5	7.5	---	---	---	4.5	1.0	2.5	4.5	1.0	3.0
MONTH	18.0	5.5	10.8	11.5	3.5	6.3	9.0	.0	1.6	8.5	.0	2.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.5	.5	3.0	12.5	7.5	9.5	8.0	4.0	6.0	16.5	9.5	12.5
2	6.5	1.0	3.0	11.5	6.0	8.5	8.0	2.0	5.5	15.0	11.0	12.5
3	8.5	1.0	4.0	12.0	7.0	9.0	6.0	2.0	4.5	13.5	9.5	11.5
4	9.0	3.5	5.5	10.0	6.0	7.5	12.5	.5	6.0	15.5	9.0	12.0
5	9.5	4.0	6.0	9.0	3.0	6.0	8.5	5.5	7.0	16.0	9.0	13.0
6	8.5	5.0	6.0	9.0	3.5	6.0	9.5	4.0	6.5	18.5	11.5	15.0
7	9.5	6.0	7.0	10.0	4.0	6.5	13.5	4.0	8.5	19.0	13.0	16.0
8	6.5	5.0	5.5	7.0	3.5	5.5	11.5	4.5	7.5	18.0	11.0	14.5
9	6.0	2.0	5.0	8.5	4.0	5.5	11.5	2.5	6.5	16.5	9.5	13.0
10	4.5	1.0	2.0	8.5	2.5	5.5	8.5	2.0	5.5	14.0	9.0	12.0
11	4.0	1.0	1.5	9.0	4.0	6.0	14.5	5.0	9.5	18.0	11.0	14.5
12	6.5	1.0	3.0	10.5	2.5	6.0	18.0	5.5	11.5	19.0	14.0	16.0
13	6.5	3.0	4.5	9.5	4.0	6.5	19.0	6.5	12.5	17.5	11.0	14.5
14	7.5	2.5	4.5	12.0	4.0	7.5	16.0	7.5	12.0	15.5	11.5	13.5
15	9.0	1.5	5.0	12.5	6.0	9.0	16.0	7.0	11.5	15.5	9.0	12.5
16	7.5	5.5	6.5	14.5	5.0	9.0	15.5	8.0	12.5	17.0	10.0	13.5
17	11.0	5.5	7.5	15.0	5.0	9.5	15.5	10.5	13.0	18.0	11.0	15.0
18	10.0	6.5	7.5	14.0	6.0	10.0	16.0	11.0	14.0	17.5	14.0	15.5
19	10.5	4.5	7.0	12.0	7.0	9.5	17.0	11.0	14.0	18.5	13.5	16.5
20	6.0	3.5	5.0	10.5	7.0	8.5	18.0	12.5	15.0	19.5	14.0	17.0
21	7.5	5.0	6.0	13.5	4.5	8.5	15.5	12.0	13.0	20.5	14.5	17.5
22	7.0	5.0	6.5	14.0	3.5	8.5	12.5	9.5	11.0	19.5	14.0	17.0
23	9.0	6.0	7.5	16.0	7.0	11.0	12.0	8.0	10.0	20.5	14.5	18.0
24	10.5	6.0	8.0	16.5	6.0	11.0	13.5	10.0	11.5	20.5	17.0	19.0
25	9.5	5.0	7.5	17.0	8.0	12.0	15.0	10.5	13.0	22.5	17.0	19.5
26	7.0	2.5	5.0	17.0	8.5	12.5	15.0	12.5	13.0	23.0	17.0	20.0
27	9.0	4.5	6.5	16.0	6.5	11.0	14.0	10.5	12.5	23.0	18.0	20.5
28	10.5	5.5	8.0	15.0	5.0	9.5	12.5	9.5	10.5	22.5	18.0	20.5
29	---	---	---	13.5	4.5	8.0	10.0	7.5	8.5	20.5	16.5	18.5
30	---	---	---	13.5	4.0	8.0	11.5	7.5	9.5	21.5	16.0	18.5
31	---	---	---	12.5	3.5	7.5	---	---	---	21.0	14.5	18.0
MONTH	11.0	.5	5.5	17.0	2.5	8.3	19.0	.5	10.1	23.0	9.0	15.7

HUMBOLDT RIVER BASIN

10336039 ARMY DRAIN ABOVE IRON BRIDGE NEAR LOVELOCK, NV

LOCATION.--Lat 40°02'33", long 118°33'07", in NE 1/4 NE 1/4 sec.13, T.25 N., R.30 E., Pershing County, Hydrologic Unit 16040108, on left bank, approximately 10 mi southwest of Lovelock.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 3,890 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. Many diversions for irrigation above station. See schematic diagram of Humboldt River Basin.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge during the period April to September, 96 ft³/s, June 29; minimum daily, 31 ft³/s, September 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	62	45	68	51	46
2	---	---	---	---	---	---	---	63	51	65	44	46
3	---	---	---	---	---	---	---	66	53	63	39	45
4	---	---	---	---	---	---	---	59	51	64	43	51
5	---	---	---	---	---	---	---	61	49	59	44	47
6	---	---	---	---	---	---	---	67	45	63	46	51
7	---	---	---	---	---	---	59	72	43	53	43	52
8	---	---	---	---	---	---	69	67	43	51	37	49
9	---	---	---	---	---	---	72	64	42	49	35	39
10	---	---	---	---	---	---	67	65	44	48	37	39
11	---	---	---	---	---	---	67	57	41	51	43	38
12	---	---	---	---	---	---	77	56	40	49	42	39
13	---	---	---	---	---	---	68	57	44	43	40	37
14	---	---	---	---	---	---	50	58	46	41	38	37
15	---	---	---	---	---	---	52	57	48	40	37	42
16	---	---	---	---	---	---	56	58	48	46	38	36
17	---	---	---	---	---	---	61	53	49	49	39	36
18	---	---	---	---	---	---	61	49	55	51	41	36
19	---	---	---	---	---	---	59	56	62	52	43	33
20	---	---	---	---	---	---	59	63	63	58	47	32
21	---	---	---	---	---	---	58	64	68	59	47	31
22	---	---	---	---	---	---	53	53	66	60	50	40
23	---	---	---	---	---	---	55	53	69	60	57	37
24	---	---	---	---	---	---	60	49	76	62	59	35
25	---	---	---	---	---	---	65	45	77	66	52	35
26	---	---	---	---	---	---	63	43	85	67	50	32
27	---	---	---	---	---	---	63	41	86	63	49	32
28	---	---	---	---	---	---	65	46	90	58	48	34
29	---	---	---	---	---	---	64	47	96	56	49	36
30	---	---	---	---	---	---	69	46	87	50	50	40
31	---	---	---	---	---	---	---	47	---	48	47	---
TOTAL	---	---	---	---	---	---	1492	1744	1762	1712	1385	1183
MEAN	---	---	---	---	---	---	62.2	56.3	58.7	55.2	44.7	39.4
MAX	---	---	---	---	---	---	77	72	96	68	59	52
MIN	---	---	---	---	---	---	50	41	40	40	35	31
AC-FT	---	---	---	---	---	---	2960	3460	3490	3400	2750	2350

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

MEAN	---	---	---	---	---	---	---	56.3	58.7	55.2	44.7	39.4
MAX	---	---	---	---	---	---	---	56.3	58.7	55.2	44.7	39.4
(WY)	---	---	---	---	---	---	---	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	---	---	56.3	58.7	55.2	44.7	39.4
(WY)	---	---	---	---	---	---	---	1999	1999	1999	1999	1999

SUMMARY STATISTICS

FOR 1999 WATER YEAR

HIGHEST DAILY MEAN	96	Jun 29
LOWEST DAILY MEAN	31	Sep 21
ANNUAL SEVEN-DAY MINIMUM	34	Sep 23
INSTANTANEOUS PEAK FLOW	111	Jun 29
INSTANTANEOUS PEAK STAGE	4.30	Jun 29
10 PERCENT EXCEEDS	67	
50 PERCENT EXCEEDS	51	
90 PERCENT EXCEEDS	37	

HUMBOLDT RIVER BASIN
10336039 ARMY DRAIN ABOVE IRON BRIDGE NEAR LOVELOCK, NV
WATER-QUALITY RECORDS

PERIOD OF RECORD.--April to September 1999.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April to September 1999

WATER TEMPERATURE: April to September 1999.

INSTRUMENTATION.--Specific conductance and water temperature monitor April to September 1999, four times per hour.

REMARKS.--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 6,510 microsiemens, July 2, 1999; minimum recorded, 2,360 microsiemens, July 25, 1999.

WATER TEMPERATURE: Maximum recorded, 27.0°C, July 11, 1999; minimum recorded, 4.0°C, April 9, 10, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 6,510 microsiemens, July 2; minimum recorded 2,360 microsiemens, July 25.

WATER TEMPERATURE: Maximum recorded, 27.0°C, July 11; minimum recorded, 4.0°C, April 9, 10.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	3750	3380	3450
2	---	---	---	---	---	---	---	---	---	3820	3430	3660
3	---	---	---	---	---	---	---	---	---	3830	3700	3750
4	---	---	---	---	---	---	---	---	---	4280	3830	4070
5	---	---	---	---	---	---	---	---	---	4220	4170	4190
6	---	---	---	---	---	---	---	---	---	4170	4030	4100
7	---	---	---	---	---	---	---	---	---	4030	3920	3970
8	---	---	---	---	---	---	---	---	---	3920	3860	3880
9	---	---	---	---	---	---	---	---	---	3860	3840	3850
10	---	---	---	---	---	---	---	---	---	3850	3830	3840
11	---	---	---	---	---	---	---	---	---	3870	3830	3850
12	---	---	---	---	---	---	---	---	---	3900	3860	3880
13	---	---	---	---	---	---	6060	3480	4670	3880	3840	3870
14	---	---	---	---	---	---	4640	4050	4410	3910	3730	3850
15	---	---	---	---	---	---	4690	3960	4380	4360	3780	4020
16	---	---	---	---	---	---	3980	3880	3930	4060	4030	4050
17	---	---	---	---	---	---	4060	3940	3990	4070	4030	4050
18	---	---	---	---	---	---	4190	4020	4100	4180	4050	4080
19	---	---	---	---	---	---	4700	4130	4400	5000	4100	4400
20	---	---	---	---	---	---	4800	4540	4620	4950	4410	4620
21	---	---	---	---	---	---	4880	4700	4820	5440	4870	5030
22	---	---	---	---	---	---	4710	3970	4390	5920	4580	5560
23	---	---	---	---	---	---	4260	3850	4020	5870	4150	4660
24	---	---	---	---	---	---	4470	4230	4370	4390	4100	4210
25	---	---	---	---	---	---	4290	4080	4200	4370	4270	4320
26	---	---	---	---	---	---	4390	3980	4190	5750	2630	4560
27	---	---	---	---	---	---	4220	4000	4110	5630	4020	4920
28	---	---	---	---	---	---	4070	3960	3990	5220	4460	4890
29	---	---	---	---	---	---	4050	4000	4040	5190	4150	4530
30	---	---	---	---	---	---	4120	3480	3830	4840	3880	4200
31	---	---	---	---	---	---	---	---	---	5270	3890	4410
MONTH	---	---	---	---	---	---	---	---	---	5920	2630	4220

HUMBOLDT RIVER BASIN

10336039 ARMY DRAIN ABOVE IRON BRIDGE NEAR LOVELOCK, NV

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	4900	3700	4230	4960	4020	4480	3820	2740	3360	2940	2910	2920
2	4770	3820	4320	6510	4230	4840	3550	3420	3480	2990	2930	2950
3	4720	4020	4390	6060	3990	4860	3700	3540	3630	3030	2970	3000
4	4930	4430	4670	5460	3390	4190	3780	3700	3750	3060	3010	3030
5	4860	4440	4570	4500	3860	4270	3880	3770	3830	3100	3040	3060
6	4970	4660	4840	4330	3720	4090	3990	3880	3950	3140	3080	3100
7	5110	4960	5040	4690	3900	4330	4010	3810	3920	3180	3120	3150
8	5260	5080	5190	4700	3780	4220	3930	3740	3840	3230	3170	3190
9	5630	5110	5210	4220	3760	3990	3910	3740	3820	3230	3190	3210
10	6010	4430	5240	4410	3400	3720	3920	3810	3860	3250	3200	3220
11	5390	4530	4880	4430	3080	3690	4840	2470	3680	3350	3240	3300
12	5540	4940	5050	3730	2630	3080	4440	3040	3660	3410	3310	3340
13	5960	4600	5120	4370	3150	3690	3900	3470	3730	3480	3410	3440
14	5840	4300	4770	4810	3180	3630	4020	3500	3720	3570	3470	3510
15	5370	4380	4850	4390	3480	3870	4200	3600	3780	3600	3550	3570
16	5590	4280	4810	3980	3860	3930	4170	3570	3780	3610	3570	3590
17	5640	4430	4950	3860	3510	3680	4100	3370	3820	3680	3570	3620
18	6160	4380	4790	3510	3010	3290	4050	3840	3900	---	---	---
19	5460	4120	4580	3670	2910	3070	4040	3880	3960	---	---	---
20	5690	4150	4580	4000	3080	3510	3890	3750	3790	---	---	---
21	5860	3660	4400	3220	2750	2950	3750	3700	3730	---	---	---
22	4850	3880	4190	3050	2610	2860	3700	2960	3490	---	---	---
23	4790	3560	3900	2950	2620	2790	3140	2900	2960	---	---	---
24	5010	3680	4120	2910	2540	2680	3150	2850	2940	---	---	---
25	4650	3880	4270	2720	2360	2500	2910	2850	2870	---	---	---
26	4720	3460	3950	2680	2400	2550	2860	2810	2830	---	---	---
27	4820	3520	3970	2630	2520	2580	2890	2760	2820	---	---	---
28	4540	3450	3840	2800	2630	2700	2930	2800	2840	---	---	---
29	4280	3430	3850	2970	2800	2870	2910	2850	2880	---	---	---
30	4680	3360	3900	3110	2970	3030	2910	2870	2890	---	---	---
31	---	---	---	3280	3110	3200	2920	2890	2900	---	---	---
MONTH	6160	3360	4550	6510	2360	3520	4840	2470	3500	---	---	---
TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	---	---	---	---	---	---	17.0	9.5	13.0
2	---	---	---	---	---	---	---	---	---	15.5	11.5	13.0
3	---	---	---	---	---	---	---	---	---	13.5	9.5	11.5
4	---	---	---	---	---	---	---	---	---	16.0	9.5	12.5
5	---	---	---	---	---	---	---	---	---	17.0	9.5	13.5
6	---	---	---	---	---	---	---	---	---	19.0	11.0	15.0
7	---	---	---	---	---	---	12.5	---	---	19.0	12.5	16.0
8	---	---	---	---	---	---	11.0	7.0	8.5	17.0	11.5	14.5
9	---	---	---	---	---	---	10.0	4.0	7.5	16.0	10.0	13.5
10	---	---	---	---	---	---	8.5	4.0	6.5	15.0	9.5	12.5
11	---	---	---	---	---	---	12.5	7.0	9.5	18.5	11.5	15.0
12	---	---	---	---	---	---	14.0	7.5	11.0	18.0	14.5	16.5
13	---	---	---	---	---	---	16.0	9.0	12.5	17.5	12.0	14.5
14	---	---	---	---	---	---	16.5	9.0	12.5	15.5	11.0	13.5
15	---	---	---	---	---	---	15.5	8.0	12.0	16.5	9.5	13.0
16	---	---	---	---	---	---	15.5	9.5	12.5	17.0	10.5	14.0
17	---	---	---	---	---	---	15.5	10.5	13.0	19.0	12.0	15.5
18	---	---	---	---	---	---	16.5	11.5	14.0	18.0	13.0	16.0
19	---	---	---	---	---	---	17.0	12.0	14.5	20.0	13.0	16.5
20	---	---	---	---	---	---	18.0	13.0	15.5	19.5	14.0	17.0
21	---	---	---	---	---	---	15.5	11.5	13.0	20.5	15.0	18.0
22	---	---	---	---	---	---	12.5	9.5	11.0	20.5	14.0	17.5
23	---	---	---	---	---	---	12.5	7.5	10.0	21.0	14.5	18.0
24	---	---	---	---	---	---	15.0	10.0	12.5	21.0	16.0	19.0
25	---	---	---	---	---	---	17.0	11.0	14.0	23.0	15.5	19.5
26	---	---	---	---	---	---	16.0	13.0	14.0	23.5	16.0	20.5
27	---	---	---	---	---	---	16.0	10.0	13.0	24.5	17.5	21.0
28	---	---	---	---	---	---	13.0	9.0	10.0	23.0	17.0	20.0
29	---	---	---	---	---	---	10.0	7.5	8.5	20.5	15.5	18.0
30	---	---	---	---	---	---	12.0	7.5	10.0	21.5	15.0	18.0
31	---	---	---	---	---	---	---	---	---	21.5	13.0	17.5
MONTH	---	---	---	---	---	---	---	---	---	24.5	9.5	15.9

HUMBOLDT RIVER BASIN
10336039 ARMY DRAIN ABOVE IRON BRIDGE NEAR LOVELOCK, NV

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	19.5	14.5	17.5	25.5	19.0	22.5	25.5	19.5	22.5	19.5	12.5	16.5
2	17.0	14.5	15.5	25.0	19.0	22.0	25.0	18.0	22.0	20.5	14.0	17.5
3	15.0	12.5	13.5	24.0	17.5	20.5	26.5	18.0	22.5	20.0	13.0	17.0
4	15.5	12.0	13.5	23.0	16.5	20.0	26.0	18.5	22.5	20.0	12.5	16.5
5	19.0	13.0	16.0	24.0	16.0	20.0	24.5	19.0	22.0	21.0	12.5	17.0
6	21.0	14.5	17.5	25.0	17.5	21.5	21.5	17.0	18.5	21.5	14.0	18.0
7	20.5	12.5	16.5	25.5	19.0	22.5	22.5	14.5	18.5	21.5	15.0	18.5
8	21.0	13.0	17.0	25.0	16.5	21.0	23.5	16.0	20.0	22.0	14.5	18.0
9	20.5	13.5	17.5	26.0	17.5	22.0	23.5	15.5	20.0	21.5	14.5	18.5
10	22.5	14.5	18.5	25.5	18.0	22.0	21.5	17.0	19.5	21.0	16.0	19.0
11	23.0	15.0	19.5	27.0	19.0	23.0	22.5	15.0	19.0	21.5	14.0	18.5
12	24.0	16.0	20.5	26.5	20.5	23.5	24.0	16.0	20.0	20.5	13.5	17.5
13	25.0	17.5	21.5	26.0	20.0	23.0	24.0	17.0	20.5	21.5	14.5	18.0
14	25.5	17.5	22.0	26.5	20.0	23.0	23.0	15.0	19.5	21.5	16.0	18.5
15	24.0	18.0	21.5	25.5	18.0	22.0	23.0	15.0	19.5	21.0	14.5	18.0
16	25.5	18.0	21.5	24.0	17.0	21.0	24.0	15.0	20.0	21.0	13.0	17.0
17	25.5	18.0	22.0	23.5	16.5	20.5	23.5	15.5	20.0	21.0	13.5	17.5
18	24.0	18.0	21.0	24.0	17.0	21.0	23.5	16.5	20.0	---	---	---
19	24.5	17.0	20.5	24.5	17.5	21.0	24.0	16.5	20.5	---	---	---
20	24.5	17.5	21.5	24.5	18.0	21.0	23.5	16.5	20.5	---	---	---
21	24.5	18.0	21.5	24.5	17.5	20.5	23.5	17.0	20.0	---	---	---
22	25.0	18.0	21.5	24.0	17.0	20.5	24.5	17.0	20.5	---	---	---
23	24.0	17.5	21.0	24.0	17.5	21.0	24.0	18.5	21.5	---	---	---
24	24.5	18.0	21.0	23.5	17.0	20.5	25.0	17.5	20.5	---	---	---
25	23.0	16.0	19.5	24.0	18.0	20.5	25.0	17.0	21.0	---	---	---
26	22.5	16.5	20.0	24.0	18.0	21.0	24.5	16.5	20.5	---	---	---
27	23.5	16.5	20.0	25.0	18.5	21.5	24.5	17.5	21.0	---	---	---
28	24.0	17.5	21.0	26.0	18.5	22.5	24.5	17.0	21.0	---	---	---
29	25.0	18.0	21.5	24.5	19.5	22.5	24.0	16.5	20.0	---	---	---
30	25.5	20.0	23.0	25.5	18.0	22.0	21.5	15.5	18.5	---	---	---
31	---	---	---	26.0	18.5	22.5	19.5	12.0	16.0	---	---	---
MONTH	25.5	12.0	19.5	27.0	16.0	21.5	26.5	12.0	20.3	---	---	---

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figure 16.

			1999 Measurements			Period of Record Maximum		
Station Name and Number	Location and Drainage Area	Period of Record (water year)	Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Humboldt River Basin								
East Adobe Creek near Elko, NV (10318850)	Lat 40°51'27", long 115°51'13", in SE ¹ / ₄ SE ¹ / ₄ sec.2, T.34 N., R.54 E., Elko County, Hydrologic Unit 16040101, at culvert on State Highway 225, 2.0 mi northwest of Elko. Drainage area is 6.0 mi ² .	1971, 1999	5/1999	--	^e 5	7-27-71	--	71
Cole Creek near Palisade, NV (10322980)	Lat 40°35'05", long 116°08'55", in SE ¹ / ₄ NE ¹ / ₄ sec.7, T.31 N., R.52 E., Eureka County, Hydrologic Unit 16040104, at culvert on State Highway 278, 3.2 mi southeast of Palisade. Drainage area is 11.4 mi ² .	1962-83 1985-99	6-3-99	1.82	0.78	6-83	3.80	1,090
Pole Creek near Golconda, NV (10328000)	Lat 40°54'59", long 117°31'49", in N ¹ / ₄ NE ¹ / ₄ sec.13, T.35 N., R.39 E., Humboldt County, Hydrologic Unit 16040108, 2.0 mi upstream from Devils Canyon, 3 mi southwest of interstate 80 and 4 mi southwest of Golconda. Drainage area is 10.7 mi ² .	1960-73 ⁺ , 1999	5-8-99	10.77	^e 40	8-5-61	--	^e 4,000

^e Estimated

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Humboldt River Basin					
Tenmile Creek above South Fork Humboldt River near Elko, NV (10319950)	South Fork Humboldt River	Lat 40°41'17", long 115°47'23", in SW ¹ / ₄ NW ¹ / ₄ sec.4, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, 1000 ft upstream of confluence of South Fork Humboldt River, 0.5 mi northwest of South Fork Dam, and 10 mi south of Elko.	1989-90 ⁺ , 1991-99	11/16/1998	4.6
				01/11/1999	10.4
				02/19/1999	8.1
				04/08/1999	9.2
				05/20/1999	2.6
				07/13/1999	.92
				09/08/1999	2.2

⁺ Operated as a continuous recording station

QUALITY OF SURFACE WATER HUMBOLDT RIVER BASIN

Data on bed-sediment chemistry at four sites on the Humboldt River are listed in the following table. These data were collected in cooperation with the Nevada Division of Water Resources to monitor regional hydrologic conditions near large mines along the Carlin Trend. Locations for the following sites are shown in figure 17.

WATER-QUALITY DATA, WATER YEARS OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	STATION NAME	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)									CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)		MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	
10321000	HUMBOLDT RIVER NEAR CARLIN, NV	09-24-98	1000	4932.	3.5	.79										
10323425	HUMBOLDT RIVER AT OLD US 40 BRIDGE, AT DUNPHY, NV	09-08-99	1400		3.0	.96										
		09-25-98	1030	4630	3.2	.9										
10325000	HUMBOLDT RIVER AT BATTLE MOUNTAIN, NV	09-08-99	1530		3.4	1.1										
		09-25-98	0830	4500	3.7	1.0										
10327500	HUMBOLDT RIVER AT COMUS, NV	09-09-99	0730		3.6	1.2										
		10-05-98	1530	4350	4.3	.96										
		09-09-99	1000		4.8	1.3										
DATE	POTAS-SIUM BOT MAT <63U WS FIELD PERCENT (34940)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	CARBON, INORG, SED, BM WS, <63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS, <63U DW, REC (PERCENT CENT) (49267)	CARBON, ORGANIC SED, BM WS, <63U DW, REC (PER- (49266)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)				
09-24-98	2.0	1.6	.05	.1	.50	1.6	1.1	7.9	1.2	6.0	980	2.0				
09-08-99	2.2	1.4	<.05	.1	.35	1.4	1.1	7.4	1.5	6.4	1000	2.3				
09-25-98	2.0	1.6	.05	.099	.46	1.3	.82	7.7	1.5	7.7	1200	1.9				
09-08-99	2.3	1.4	<.05	.1	.48	1.6	1.1	7.5	1.7	6.8	1200	2.3				
09-25-98	1.9	1.6	<.05	.11	.61	1.5	.85	7.6	1.5	6.6	1100	2.0				
09-09-99	2.1	1.3	<.05	.11	.59	1.6	.97	7.1	1.8	6.8	1100	2.2				
10-05-98	1.9	1.6	<.05	.11	.80	1.6	.77	7.5	2.7	7.3	1000	1.8				
09-09-99	2.2	1.4	.06	.11	1.0	2.1	1.1	7.0	2.0	9.3	990	2.3				
DATE	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)				
09-24-98	<1	.40	92.	54	9.0	20	1.3	17	<1	1.2	2.6	52				
09-08-99	<1	.26	98.	51	8.3	29	1.5	18	<1	1.1	2.7	55				
09-25-98	<1	.50	71.	45	8.0	19	1.2	16	<1	1.1	2.6	34				
09-08-99	<1	.33	69.	51	8.3	27	1.4	17	<1	1.0	2.7	40				
09-25-98	<1	.60	79.	47	8.0	18	1.2	16	<1	1.2	2.6	44				
09-09-99	<1	.37	78.	59	8.9	30	1.4	17	<1	1.0	2.9	43				
10-05-98	<1	.50	71.	45	8.0	17	1.1	15	<1	1.1	2.2	41				
09-09-99	<1	.36	65.	54	9.2	28	1.3	17	<1	1.0	2.9	36				
DATE	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)					
09-24-98	21	31	840	.02	.80	40	22	17	8	.29	<.1					
09-08-99	19	38	940	.12	.75	42	17	21	10	.28	.27					
09-25-98	21	39	640	.04	.90	33	19	15	7	.37	<.1					
09-08-99	17	43	470	.04	.72	32	20	18	10	.43	.27					
09-25-98	20	41	640	.07	.80	36	19	15	7	.27	<.1					
09-09-99	17	47	600	.04	.62	34	22	21	10	.35	.31					
10-05-98	19	43	700	.03	1.30	33	20	15	7	.21	<.1					
09-09-99	15	57	990	.05	.92	30	24	14	11	.27	.22					
DATE	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THAL-LIUM BED MAT D SIEVE <63 U TOTAL (UG/G) (04064)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM DRY WGT REC (PERCENT) (49274)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)					
09-24-98	390	1.2	<1	3.0	.46	78	28	2.8	88	20	3.4					
09-08-99	320	1.8	<1	2.7	.46	81	28	2.5	97	21	4.2					
09-25-98	380	1.1	<1	3.0	.37	83	25	2.7	91	13	3.2					
09-08-99	340	1.4	<1	2.4	.42	89	24	2.4	110	13	3.9					
09-25-98	390	1.0	<1	2.0	.40	83	25	2.6	87	16	3.2					
09-09-99	340	2.0	<1	2.6	.45	94	26	2.5	110	15	3.8					
10-05-98	450	1.0	<1	2.0	.37	76	25	2.6	88	15	3.1					
09-09-99	400	1.2	<1	2.1	.38	88	24	2.6	120	12	3.6					

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

Water-quality measurements in the following table were made in cooperation with the Nevada Department of Conservation and Natural Resources to monitor water-quality flowing into and out of the Humboldt State Wildlife Management Area. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data." The following sites are shown in figures 17 and 29.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)
10333000	HUMBOLDT RIVER NEAR IMLAY, NV	10-07-98	0845	FIELD BLANK	4130
		10-07-98	0915	ENVIRONMENTAL	
		11-17-98	0915	ENVIRONMENTAL	
		01-12-99	1000	ENVIRONMENTAL	
		03-02-99	0915	ENVIRONMENTAL	
		04-13-99	0905	ENVIRONMENTAL	
		05-25-99	0840	ENVIRONMENTAL	
		06-29-99	1030	ENVIRONMENTAL	
		08-10-99	0955	ENVIRONMENTAL	
		09-13-99	1230	ENVIRONMENTAL	
10335000	HUMBOLDT RIVER NEAR RYE PATCH, NV	10-07-98	1230	ENVIRONMENTAL	4069
		11-17-98	1220	ENVIRONMENTAL	
		01-12-99	1330	ENVIRONMENTAL	
		03-02-99	1300	ENVIRONMENTAL	
		04-13-99	1245	ENVIRONMENTAL	
		05-25-99	1100	ENVIRONMENTAL	
		06-29-99	1400	FIELD BLANK	
		06-29-99	1445	ENVIRONMENTAL	
		08-10-99	1630	ENVIRONMENTAL	
		09-13-99	1545	ENVIRONMENTAL	
10336000	HUMBOLDT RIVER NEAR LOVELOCK, NV	10-06-98	1030	ENVIRONMENTAL	3920
		11-18-98	1415	ENVIRONMENTAL	
		01-13-99	0930	ENVIRONMENTAL	
		03-03-99	0900	FIELD BLANK	
		03-03-99	1030	ENVIRONMENTAL	
		04-14-99	0920	ENVIRONMENTAL	
		05-26-99	0830	FIELD BLANK	
		05-26-99	0900	ENVIRONMENTAL	
		06-30-99	1000	ENVIRONMENTAL	
		08-11-99	0850	FIELD BLANK	
10336035	TOULON DRAIN A" DERBY FIELD ROAD NEAR TOULON, NV	08-11-99	0930	ENVIRONMENTAL	3900
		09-15-99	0900	FIELD BLANK	
		09-15-99	1030	ENVIRONMENTAL	
		10-06-98	1630	ENVIRONMENTAL	
		11-19-98	0950	FIELD BLANK	
		11-19-98	1015	ENVIRONMENTAL	
		01-13-99	1445	ENVIRONMENTAL	
		03-04-99	0930	ENVIRONMENTAL	
		04-14-99	1245	FIELD BLANK	
		04-14-99	1330	ENVIRONMENTAL	
400325118330401 10336039	ARMY DRAIN AT DERBY ROAD NEAR TOULON LAKE, NV ARMY DRAIN ABOVE IRON BRIDGE NEAR LOVELOCK, NV	05-25-99	1530	ENVIRONMENTAL	3900 3890
		07-01-99	0950	ENVIRONMENTAL	
		08-12-99	0930	FIELD BLANK	
		08-12-99	1000	ENVIRONMENTAL	
		09-14-99	1535	ENVIRONMENTAL	
		10-06-98	1300	ENVIRONMENTAL	
		01-14-99	1000	FIELD BLANK	
		01-14-99	1045	ENVIRONMENTAL	
		03-03-99	1500	ENVIRONMENTAL	
		04-15-99	1100	ENVIRONMENTAL	
10336040 10336042 10336045	ARMY DRAIN AT IRON BRIDGE NEAR TOULON, NV UPPER HUMBOLDT LAKE AT MOUTH ARMY DRAIN NEAR TOULON LOWER HUMBOLDT DRAIN AT HUMBOLDT DYKE NEAR LOVELOCK	05-26-99	1300	ENVIRONMENTAL	3890 3890 3840
		06-30-99	1500	ENVIRONMENTAL	
		08-11-99	1245	FIELD BLANK	
		08-11-99	1330	ENVIRONMENTAL	
		09-14-99	1000	ENVIRONMENTAL	
		11-18-98	1000	ENVIRONMENTAL	
		08-31-99	1340	ENVIRONMENTAL	
		10-05-98	1400	ENVIRONMENTAL	
		11-16-98	1410	ENVIRONMENTAL	
		01-11-99	1430	ENVIRONMENTAL	
395912118360601 400229118330501	UPPER HUMBOLDT LAKE SAMPLE POINT NEAR MOUTH OF RIVER UNNAMED DRAIN EAST OF ARMY DRAIN NEAR DERBY FIELD	03-01-99	1600	ENVIRONMENTAL	3890 3900
		04-12-99	1450	ENVIRONMENTAL	
		05-24-99	1530	ENVIRONMENTAL	
		06-28-99	1550	ENVIRONMENTAL	
		08-09-99	1500	ENVIRONMENTAL	
		08-31-99	1100	ENVIRONMENTAL	
		01-13-99	1245	ENVIRONMENTAL	
		03-03-99	1300	ENVIRONMENTAL	
		04-15-99	0950	ENVIRONMENTAL	
		05-26-99	1245	ENVIRONMENTAL	
		06-30-99	1615	ENVIRONMENTAL	
		08-11-99	1445	ENVIRONMENTAL	
		09-14-99	1230	ENVIRONMENTAL	

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
10333000		10-07-98	--	--	--	--	--	0.8	.02	.005	<.1
		10-07-98	160	10.7	8.5	800	11.5	160	39	14	12
		11-17-98	250	10.7	8.5	650	5.0	140	37	12	13
		01-12-99	410	11.4	8.4	720	.5	150	41	12	11
		03-02-99	410	9.6	8.5	660	7.0	170	47	13	8.9
		04-13-99	420	11.0	8.5	600	9.0	160	42	13	8.3
		05-25-99	440	7.8	8.4	710	18.0	180	48	15	10
		06-29-99	960	6.9	8.4	600	21.5	150	40	13	9.3
		08-10-99	151	7.6	8.5	810	19.0	180	47	16	10
		09-13-99	56	8.6	8.3	940	18.5	190	43	20	11
10335000		10-07-98	520	9.3	8.5	870	16.5	150	36	15	14
		11-17-98	410	10.9	8.6	940	7.5	150	35	15	17
		01-12-99	334	12.1	8.6	1270	3.5	160	37	17	19
		03-02-99	560	12.7	8.6	1060	4.5	150	35	15	15
		04-13-99	400	12.8	8.7	980	7.5	150	36	15	20
		05-25-99	350	11.8	8.6	900	14.5	160	38	15	14
		06-29-99	--	--	--	--	--	--	.044	E.003	<.1
		06-29-99	640	8.1	8.8	860	22.0	180	40	20	38
		08-10-99	230	7.7	8.4	850	20.5	170	40	16	14
		09-13-99	95	8.4	8.5	940	18.5	160	39	17	15
10336000		10-06-98	410	9.9	8.6	930	13.5	150	37	15	14
		11-18-98	430	10.9	8.6	1050	7.5	150	36	15	15
		01-13-99	300	13.2	8.7	1340	1.5	170	39	17	18
		03-03-99	--	--	--	--	--	--	<.020	<.004	<.1
		03-03-99	510	13.4	8.7	1150	5.5	160	38	16	16
		04-14-99	25	11.2	8.6	2340	9.0	200	46	20	20
		05-26-99	--	--	--	--	--	--	.066	<.004	<.1
		05-26-99	98	8.5	8.2	1230	16.5	170	43	16	17
		06-30-99	93	8.8	8.5	1170	21.0	160	38	15	44
		08-11-99	--	--	--	--	--	--	--	--	--
		08-11-99	18	7.8	8.5	2180	19.0	210	50	20	24
		09-15-99	--	--	--	--	--	--	E.014	<.014	<.2
		09-15-99	35	9.8	8.6	1640	20.5	180	42	18	20
10336035		10-06-98	18	21.4	8.5	3010	15.0	460	120	39	26
		11-19-98	--	--	--	--	--	--	E.015	<.004	<.1
		11-19-98	12	18.9	8.5	3160	3.0	490	130	41	26
		01-13-99	7.0	17.0	8.5	3700	6.0	570	140	51	52
		03-04-99	5.0	8.9	8.4	4080	5.0	560	130	54	34
		04-14-99	--	--	--	--	--	--	<.02	<.004	<.1
		04-14-99	14	13.0	8.3	3040	14.0	440	110	41	27
		05-25-99	27	9.4	8.2	2940	22.5	450	120	38	26
		07-01-99	24	5.4	8.3	3000	21.5	450	120	39	27
		08-12-99	--	--	--	--	--	--	--	--	--
		08-12-99	19	8.3	8.3	3010	18.0	460	120	39	27
		09-14-99	17	10.5	8.3	2630	20.5	380	98	32	26
400325118330401		10-06-98	32	11.2	8.2	3530	12.5	490	130	40	28
10336039		01-14-99	--	--	--	--	--	--	E.016	.005	<.1
		01-14-99	32	10.2	8.3	6010	2.5	880	230	72	41
		03-03-99	7.0	21.4	8.4	6280	14.0	870	220	75	40
		04-15-99	52	8.4	8.2	6300	11.0	840	210	78	8.4
		05-26-99	43	10.3	8.2	6730	21.5	880	220	81	42
		06-30-99	90	5.4	8.0	5380	25.0	710	170	66	40
		08-11-99	--	--	--	--	--	--	.14	<.004	<.1
		08-11-99	44	5.0	8.1	2800	21.5	400	100	34	25
		09-14-99	36	7.0	8.2	3290	17.5	480	130	41	26
10336040		11-18-98	8.0	8.9	8.1	6960	7.0	930	240	83	44
10336042		08-31-99	--	17.5	8.2	4440	--	610	160	55	37
10336045		10-05-98	425	9.3	8.7	2270	14.5	240	37	35	32
		11-16-98	377	11.0	8.6	1970	7.0	230	41	32	24
		01-11-99	303	14.4	8.8	2260	6.5	270	48	36	29
		03-01-99	272	9.8	8.7	2380	11.0	250	46	33	25
		04-12-99	229	13.5	8.7	1980	10.0	240	45	30	23
		05-24-99	167	7.7	8.6	3190	20.5	260	39	41	35
		06-28-99	141	7.0	8.6	2840	22.0	280	40	44	37
		08-09-99	27	4.4	8.7	5210	19.0	380	38	68	63
395912118360601		08-31-99	--	--	8.6	7330	--	600	72	103	67
400229118330501		01-13-99	--	11.5	7.6	12200	5.0	2100	470	216	95
		03-03-99	--	9.8	7.8	14000	13.0	1700	380	181	82
		04-15-99	--	10.5	7.8	14600	8.0	1700	380	186	76
		05-26-99	--	27.3	8.2	11200	23.0	1500	350	143	67
		06-30-99	--	15.3	7.8	8940	25.5	1000	250	101	51
		08-11-99	--	8.2	7.8	8510	22.0	960	220	99	55
		09-14-99	--	6.3	7.7	9360	19.0	1300	310	127	70

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ALKA- LINITY WAT DIS FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
10333000		10-07-98	<.060	--	--	--	--	.39	<.1	<.050	<.10
		10-07-98	106	4	210	230	10	50	1.3	23	100
		11-17-98	79	3	180	220	5	29	.88	20	110
		01-12-99	80	3	140	170	<2	27	1.0	23	110
		03-02-99	68	2	200	230	5	36	.97	26	60
		04-13-99	65	2	200	230	5	30	.91	26	53
		05-25-99	77	2	240	290	2	38	.91	33	65
		06-29-99	69	2	210	250	5	26	.79	32	37
		08-10-99	103	3	230	270	7	55	1.1	34	79
		09-13-99	120	4	230	270	5	79	1.1	36	100
10335000		10-07-98	120	4	210	260	5	83	.85	30	65
		11-17-98	137	5	250	280	10	110	.87	29	67
		01-12-99	185	6	240	260	10	170	1.0	28	87
		03-02-99	146	5	210	240	10	130	.99	26	78
		04-13-99	133	5	--	--	--	110	1.0	23	88
		05-25-99	115	4	220	210	30	87	1.0	21	95
		06-29-99	.062	--	--	--	--	<.10	<.10	.054	<.10
		06-29-99	117	4	210	230	10	78	1.1	24	87
		08-10-99	114	4	210	240	5	71	.98	30	86
		09-13-99	119	4	220	260	5	83	1.1	31	87
10336000		10-06-98	134	5	210	250	<2	100	.90	30	71
		11-18-98	152	5	240	290	5	140	.87	28	73
		01-13-99	210	7	230	260	10	200	1.1	29	93
		03-03-99	.071	--	--	--	--	.67	<.1	<.050	<.10
		03-03-99	163	6	220	240	10	150	1.0	27	82
		04-14-99	408	13	220	260	5	490	1.2	29	130
		05-26-99	.10	--	--	--	--	.12	<.1	<.050	<.10
		05-26-99	171	6	220	270	<2	170	1.1	25	110
		06-30-99	163	6	220	210	30	150	1.1	26	100
		08-11-99	--	--	--	--	--	--	--	--	--
		08-11-99	366	11	270	310	10	390	1.3	38	140
		09-15-99	E.058	--	--	--	--	E.27	<.1	<.090	<.31
		09-15-99	256	8	260	290	14	260	1.4	37	120
10336035		10-06-98	469	10	440	490	24	520	1.2	43	330
		11-19-98	<.060	--	--	--	--	.17	<.1	<.050	<.10
		11-19-98	487	10	510	590	14	540	1.2	43	340
		01-13-99	639	12	500	530	40	680	1.3	48	420
		03-04-99	683	13	464	550	10	820	1.4	40	460
		04-14-99	<.060	--	--	--	--	<.10	<.1	E.040	<.10
		04-14-99	495	10	380	460	5	510	1.2	34	330
		05-25-99	442	9	440	530	<2	460	1.3	41	320
		07-01-99	486	10	470	520	24	480	1.3	42	340
		08-12-99	--	--	--	--	--	--	--	--	--
		08-12-99	484	10	510	620	<2	460	1.3	49	340
		09-14-99	398	9	420	500	5	390	1.3	45	280
400325118330401		10-06-98	542	11	400	480	<2	730	1.2	42	300
10336039		01-14-99	.077	--	--	--	--	1.5	<.1	<.050	<.10
		01-14-99	1040	15	500	610	<2	1400	1.4	53	460
		03-03-99	1070	16	430	500	<2	1600	1.5	47	480
		04-15-99	1070	16	450	550	<2	1500	1.4	43	570
		05-26-99	1080	16	400	480	<2	1600	1.4	37	640
		06-30-99	928	15	380	460	<2	1200	1.5	40	550
		08-11-99	.061	--	--	--	--	.14	<.1	.073	<.10
		08-11-99	426	9	340	420	<2	500	1.3	43	240
		09-14-99	515	10	380	460	<2	680	1.4	43	290
10336040		11-18-98	1230	17	510	620	<2	1600	1.5	47	690
10336042		08-31-99	1110	19	--	--	--	890	1.4	45	530
10336045		10-05-98	370	10	320	312	38	390	1.1	41	250
		11-16-98	320	9	288	322	14	340	1.0	32	200
		01-11-99	386	10	290	310	24	400	1.2	32	230
		03-01-99	366	10	270	270	30	420	1.2	26	210
		04-12-99	345	10	250	290	10	370	1.3	26	190
		05-24-99	544	15	320	340	24	620	1.5	28	310
		06-28-99	486	13	290	350	5	530	1.5	39	270
		08-09-99	977	22	410	270	110	1100	1.7	43	570
395912118360601		08-31-99	763	14	320	360	20	1800	1.7	28	790
400229118330501		01-13-99	2940	28	580	710	<2	3500	1.9	53	1800
		03-03-99	2670	28	500	610	<2	3800	1.9	44	1900
		04-15-99	2810	29	530	650	<2	3900	1.7	39	1500
		05-26-99	2020	23	430	530	<2	2900	1.7	36	1200
		06-30-99	1820	24	380	470	<2	2400	1.8	35	810
		08-11-99	2000	28	370	450	<2	2800	1.8	26	870
		09-14-99	1740	21	450	550	<2	2400	1.9	40	1300

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)
10333000	10-07-98	<.02	<.1	<.1	.060	<.01	<.05	<.01	<.05	--
	10-07-98	<.02	--	--	.059	<.01	<.05	<.01	.053	0.691
	11-17-98	<.02	.10	.18	.20	<.01	<.05	.01	<.05	0.605
	01-12-99	.031	.13	.12	.33	.017	.022	.026	.038	0.573
	03-02-99	<.02	.25	.62	.15	<.01	.049	.046	.25	0.579
	04-13-99	<.02	.13	.51	.055	<.01	.038	.038	.20	0.515
	05-25-99	.029	.34	.85	<.05	<.01	.047	.04	.29	0.620
	06-29-99	.023	.47	.99	<.05	.01	.042	.041	.43	0.534
	08-10-99	<.02	.18	.18	<.05	<.01	.005	<.01	.15	0.650
	09-13-99	<.02	.20	.24	<.05	<.01	.006	<.01	.04	0.748
10335000	10-07-98	.039	--	--	.27	.022	E.039	.034	.068	0.738
	11-17-98	.025	.49	.57	.27	.01	E.039	.038	E.046	0.797
	01-12-99	.026	.47	.56	.24	.01	.039	.041	.073	0.974
	03-02-99	<.02	.40	.50	.16	.01	.025	.02	.062	0.838
	04-13-99	.020	.32	.47	.053	<.01	.006	.01	.057	--
	05-25-99	.052	.28	.51	<.05	<.01	.012	.015	.039	0.741
	06-29-99	.020	E.088	<.1	<.05	<.01	<.004	.018	<.004	--
	06-29-99	.029	.26	.37	<.05	.01	.012	.022	.039	0.714
	08-10-99	.024	.22	.26	<.05	<.01	.018	.012	.065	0.722
	09-13-99	<.02	.41	.42	<.05	<.01	.021	.02	.067	0.737
10336000	10-06-98	<.02	.49	.64	.23	<.01	E.039	.031	.10	0.796
	11-18-98	<.02	.44	.55	.23	<.01	E.03	.031	.079	0.868
	01-13-99	.029	.47	.63	.27	<.01	.047	.041	.19	1.07
	03-03-99	<.02	E.055	<.1	<.05	<.01	<.004	<.01	<.004	--
	03-03-99	<.02	.43	.61	.13	<.01	.020	.018	.15	0.908
	04-14-99	.020	.31	.45	.11	<.01	.031	.029	.089	1.84
	05-26-99	.033	<.1	E.084	<.05	<.01	<.004	<.01	<.004	--
	05-26-99	.039	.22	.47	.086	<.01	.025	.029	.13	1.00
	06-30-99	.042	.26	.54	<.05	.01	.015	.026	.13	0.938
	08-11-99	--	--	--	--	--	--	--	--	--
10336035	08-11-99	.020	.19	.26	.086	<.01	.034	.03	.11	1.60
	09-15-99	<.02	<.1	<.1	<.05	<.01	<.004	<.01	<.004	--
	09-15-99	<.02	.3	.38	<.05	<.01	.025	.028	.069	1.25
	10-06-98	.020	--	--	.59	.037	.22	.21	.29	2.57
	11-19-98	<.02	<.1	<.1	<.05	<.01	<.05	<.01	<.05	--
	11-19-98	.18	.75	.93	.48	.029	.23	.24	.28	2.72
	01-13-99	.86	1.6	1.7	.71	.040	.37	.37	.43	3.24
	03-04-99	.95	1.9	2.4	.34	.056	.41	.42	.66	3.58
	04-14-99	<.02	<.1	<.1	<.05	<.01	<.004	<.01	<.004	--
	04-14-99	.36	1.1	3.0	.36	.052	.20	.17	1.1	2.55
10336040	05-25-99	.17	.74	1.5	.46	.070	.20	.20	.46	2.39
	07-01-99	.030	.66	.93	.19	.049	.15	.14	.22	2.54
	08-12-99	--	--	--	--	--	--	--	--	--
	08-12-99	.080	.60	.59	.50	.039	.20	.16	.33	2.42
	09-14-99	.070	.62	1.4	.48	.041	.20	.18	.42	2.13
	10-06-98	.070	--	--	.37	.023	.064	.069	.12	2.91
	01-14-99	<.02	<.1	<.1	<.05	<.01	<.004	<.01	<.004	--
	01-14-99	.60	1.2	1.2	.42	.020	.17	.16	.19	4.96
	03-03-99	.084	.63	.96	<.05	.013	.077	.077	.16	5.15
	04-15-99	.25	1.0	1.5	.44	.016	.13	.12	.34	5.24
10336042	05-26-99	.092	.69	1.5	.30	.035	.087	.081	.25	5.45
	06-30-99	.20	1.0	1.6	.20	.036	.12	.12	.34	4.53
	08-11-99	<.02	.11	E.067	<.05	<.01	<.004	<.01	<.004	--
	08-11-99	.18	.73	.61	.52	.052	.10	.079	.88	2.18
	09-14-99	.23	.81	1.5	.36	.065	.089	.063	.35	2.73
	11-18-98	.30	1.2	1.2	.87	.038	.13	.16	.16	6.15
	08-31-99	.11	.90	2.4	.31	.044	.11	.093	.54	--
	10-05-98	.020	--	--	.060	<.01	<.05	.012	.065	1.90
	11-16-98	<.02	.68	1.0	<.05	<.01	<.05	.01	.052	1.67
	01-11-99	<.02	.69	.80	<.05	<.01	.014	.013	.058	1.88
10336045	03-01-99	<.02	.64	.94	<.05	<.01	.015	.016	.16	1.84
	04-12-99	<.02	.59	1.3	<.05	<.01	.015	.017	.21	1.71
	05-24-99	.034	.70	1.5	<.05	<.01	.023	.033	.23	2.55
	06-28-99	.045	.87	1.5	<.05	.011	.026	.036	.24	2.32
	08-09-99	<.02	1.4	2.5	<.05	<.01	.053	.02	.31	4.23
	08-31-99	<.02	1.2	3.2	<.05	<.01	.054	.03	.36	6.15
	01-13-99	.22	1.8	2.5	.11	.011	.20	.25	.51	12.9
	03-03-99	.14	1.9	1.9	<.05	<.01	.25	.31	.32	13.2
	04-15-99	.20	1.4	1.6	.33	.017	.16	.22	.21	12.2
	05-26-99	.042	.98	1.9	.28	.049	.085	.08	.21	9.60
395912118360601	06-30-99	.13	.74	1.4	.074	.024	.15	.15	.21	7.75
	08-11-99	.20	1.1	1.0	<.05	<.01	.11	.083	.18	8.26
	09-14-99	.13	1.2	3.3	<.05	<.01	.18	.16	.74	8.85
	08-31-99	<.02	1.2	3.2	<.05	<.01	.054	.03	.36	6.15
	01-13-99	.22	1.8	2.5	.11	.011	.20	.25	.51	12.9
	03-03-99	.14	1.9	1.9	<.05	<.01	.25	.31	.32	13.2
	04-15-99	.20	1.4	1.6	.33	.017	.16	.22	.21	12.2
	05-26-99	.042	.98	1.9	.28	.049	.085	.08	.21	9.60
	06-30-99	.13	.74	1.4	.074	.024	.15	.15	.21	7.75
	08-11-99	.20	1.1	1.0	<.05	<.01	.11	.083	.18	8.26
400229118330501	09-14-99	.13	1.2	3.3	<.05	<.01	.18	.16	.74	8.85

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	ALUM- INUM, DIS- SOLVED (UG/L) (01106)	ANTI- MONY, DIS- SOLVED (UG/L) (01095)	ARSENIC DIS- SOLVED (UG/L) (01000)	BARIUM, DIS- SOLVED (UG/L) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L) (01010)	BORON, DIS- SOLVED (UG/L) (01020)
10333000		10-07-98	--	<10	--	3.7	<1.0	<1	<1.0	<1.0	E14
		10-07-98	219	508	473	4.3	11	18	80	<1.0	525
		11-17-98	300	445	414	4.9	4.7	13	82	<1.0	421
		01-12-99	466	421	391	<1.0	3.8	13	77	<1.0	413
		03-02-99	472	426	379	<1.0	2.5	15	69	<1.0	299
		04-13-99	430	379	356	<1.0	2.1	13	67	<1.0	284
		05-25-99	542	456	432	1.1	1.7	21	77	<1.0	321
		06-29-99	1020	393	356	3.0	1.1	19	56	<1.0	301
		08-10-99	195	478	485	1.3	2.7	23	74	<1.0	501
		09-13-99	83.2	550	549	1.2	1.8	20	85	<1.0	646
10335000		10-07-98	762	543	497	4.1	1.8	28	33	<1.0	503
		11-17-98	649	586	564	4.8	2.3	33	45	<1.0	527
		01-12-99	646	716	685	<1.0	3.4	35	62	<1.0	610
		03-02-99	931	616	573	<1.0	3.1	30	45	<1.0	547
		04-13-99	--	587	--	2.4	3.6	24	45	<1.0	546
		05-25-99	515	545	520	4.5	3.5	25	38	<1.0	485
		06-29-99	--	<10	--	1.2	<1.0	<1	<1.0	<1.0	<16
		06-29-99	907	525	529	1.5	3.2	23	32	<1.0	444
		08-10-99	330	531	494	<1.0	3.0	26	30	<1.0	447
		09-13-99	139	542	525	<1.0	3.1	28	35	<1.0	476
10336000		10-06-98	648	585	526	5.1	1.9	30	38	<1.0	588
		11-18-98	741	638	607	2.7	2.3	34	44	<1.0	602
		01-13-99	635	784	754	<1.0	3.3	37	58	<1.0	751
		03-03-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		03-03-99	920	668	623	<1.0	3.3	31	49	<1.0	616
		04-14-99	91.4	1350	1280	1.7	3.2	36	66	<1.0	1820
		05-26-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		05-26-99	195	738	686	1.2	3.3	31	50	<1.0	856
		06-30-99	173	690	670	1.8	3.1	30	38	<1.0	710
		08-11-99	--	--	--	--	--	--	--	--	--
		08-11-99	57.2	1180	1190	<1.0	2.5	42	64	<1.0	1690
		09-15-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		09-15-99	86.6	916	913	1.0	2.8	36	56	<1.0	1200
10336035		10-06-98	91.8	1890	1810	3.8	<2.0	64	103	<2.0	2110
		11-19-98	--	12	--	2.8	<1.0	<1	<1.0	<1.0	<16
		11-19-98	64.8	2000	1920	3.1	<2.0	64	110	<2.0	1350
		01-13-99	45.0	2380	2340	5.0	<2.0	75	131	<2.0	2770
		03-04-99	35.5	2630	2510	<2.0	<2.0	82	165	<2.0	3120
		04-14-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		04-14-99	70.9	1880	1790	7.4	2.4	72	101	<2.0	2230
		05-25-99	128	1760	1710	2.5	<2.0	79	93	<2.0	2250
		07-01-99	121	1860	1820	5.0	<2.0	92	97	<2.0	2070
		08-12-99	--	--	--	--	--	--	--	--	--
		08-12-99	91.1	1780	1830	2.3	2.0	78	113	<2.0	2120
		09-14-99	71.8	1560	1530	1.2	2.1	77	102	<1.0	1870
400325118330401		10-06-98	185	2140	2050	2.7	<2.0	53	97	<2.0	2290
10336039		01-14-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		01-14-99	315	3650	3610	<3.0	<3.0	78	144	<3.0	3880
		03-03-99	71.6	3790	3770	<3.0	<3.0	74	151	<3.0	4070
		04-15-99	541	3850	3780	<3.0	<3.0	94	114	<3.0	4250
		05-26-99	466	4010	3910	<3.0	<3.0	120	109	<3.0	4220
		06-30-99	809	3330	3190	5.8	3.1	110	97	<3.0	3820
		08-11-99	--	<10	--	<1.0	<1.0	<1	<1.0	<1.0	<16
		08-11-99	190	1600	1590	<2.0	2.7	48	83	<2.0	1880
		09-14-99	195	2010	1950	5.5	2.2	56	102	<1.0	2130
10336040		11-18-98	97.6	4520	4280	3.3	<3.0	120	128	<3.0	4730
10336042		08-31-99	--	2720	--	<2.0	3.1	93	115	<2.0	3250
10336045		10-05-98	1600	1400	1350	3.8	4.2	79	66	<1.0	1870
		11-16-98	1250	1230	1160	2.2	3.1	68	60	<1.0	1520
		01-11-99	1130	1380	1330	<1.0	3.5	66	72	<1.0	1710
		03-01-99	991	1350	1290	<1.0	3.3	53	76	<1.0	1490
		04-12-99	778	1260	1180	2.4	4.3	53	67	<1.0	1500
		05-24-99	844	1870	1810	2.5	5.5	93	86	<2.0	2510
		06-28-99	650	1710	1630	2.8	5.1	99	74	<2.0	2120
		08-09-99	227	3110	3150	<3.0	6.6	170	144	<3.0	4230
395912118360601		08-31-99	--	4520	3840	<3.0	5.5	180	110	<3.0	5550
400229118330501		01-13-99	--	9490	9510	11	<6.0	220	109	<6.0	12400
		03-03-99	--	9730	9320	<6.0	<6.0	200	117	<6.0	9560
		04-15-99	--	9010	9280	11	<6.0	220	118	<6.0	9980
		05-26-99	--	7060	6990	<5.0	<5.0	230	119	<5.0	7890
		06-30-99	--	5700	5730	6.2	<4.0	180	112	<4.0	5840
		08-11-99	--	6070	6260	<5.0	<5.0	140	113	<5.0	6650
		09-14-99	--	6510	6340	2.3	3.6	140	103	<1.0	6810

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION	NUMBER	DATE	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MERCURY WATER, UNFLTRD (NG/L) (50286)	MERCURY METHYL, WATER, UNFLTRD REC, (NG/L) (50284)
10333000		10-07-98	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		10-07-98	<1.0	2.8	<1.0	1.1	<10	4.4	<1.0	--	--
		11-17-98	<1.0	<1.0	<1.0	<1.0	<10	3.1	<1.0	--	--
		01-12-99	<1.0	6.3	<1.0	1.0	<10	1.7	<1.0	--	--
		03-02-99	<1.0	7.7	<1.0	1.4	<10	<1.0	<1.0	--	--
		04-13-99	<1.0	<1.0	<1.0	1.4	<10	3.4	<1.0	--	--
		05-25-99	<1.0	<1.0	<1.0	2.2	<10	1.2	<1.0	--	--
		06-29-99	<1.0	<1.0	<1.0	2.7	<10	1.0	<1.0	--	--
		08-10-99	<1.0	<1.0	<1.0	1.6	E9.9	3.5	--	8.3	.24
		09-13-99	<1.0	<1.0	<1.0	1.6	<10	2.8	<1.0	--	--
10335000		10-07-98	<1.0	3.0	<1.0	1.8	<10	<1.0	<1.0	--	--
		11-17-98	<1.0	<1.0	<1.0	2.1	<10	<1.0	<1.0	--	--
		01-12-99	<1.0	13	<1.0	2.3	<10	<1.0	<1.0	--	--
		03-02-99	<1.0	7.7	<1.0	2.2	<10	<1.0	<1.0	--	--
		04-13-99	<1.0	<1.0	<1.0	2.1	<10	<1.0	<1.0	--	--
		05-25-99	<1.0	<1.0	<1.0	1.6	E6.4	<1.0	<1.0	--	--
		06-29-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		06-29-99	<1.0	<1.0	<1.0	1.7	<10	<1.0	<1.0	--	--
		08-10-99	<1.0	<1.0	<1.0	1.9	<10	<1.0	--	5.0	.03
		09-13-99	<1.0	<1.0	<1.0	2.2	<10	<1.0	<1.0	--	--
10336000		10-06-98	<1.0	2.8	<1.0	1.9	<10	1.1	<1.0	--	--
		11-18-98	<1.0	1.6	<1.0	1.9	<10	1.5	<1.0	--	--
		01-13-99	<1.0	9.6	<1.0	2.4	<10	1.8	<1.0	--	--
		03-03-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		03-03-99	<1.0	10	<1.0	2.3	<10	<1.0	<1.0	--	--
		04-14-99	<1.0	<1.0	<1.0	2.1	<30	6.1	<1.0	--	--
		05-26-99	<1.0	<1.0	<1.0	<1.0	E6.1	<1.0	<1.0	--	--
		05-26-99	<1.0	<1.0	<1.0	1.6	<10	2.8	<1.0	--	--
		06-30-99	<1.0	<1.0	<1.0	1.5	<10	2.5	<1.0	--	--
		08-11-99	--	--	--	--	--	--	--	.67	.0
10336035		08-11-99	<1.0	<1.0	<1.0	1.6	<30	2.0	--	10	.33
		09-15-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		09-15-99	<1.0	<1.0	<1.0	1.9	<10	<1.0	<1.0	--	--
		10-06-98	<2.0	4.6	<2.0	2.3	<30	8.1	<1.0	--	--
		11-19-98	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		11-19-98	<2.0	2.8	<2.0	<2.0	<30	156	<1.0	--	--
		01-13-99	<2.0	<2.0	<2.0	2.7	<30	369	<1.0	--	--
		03-04-99	<2.0	16	<2.0	3.0	<30	631	<1.0	--	--
		04-14-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		04-14-99	<2.0	<1.0	<2.0	2.5	<30	314	<1.0	--	--
400325118330401 10336039		05-25-99	<2.0	<1.0	<2.0	2.2	<30	168	<1.0	--	--
		07-01-99	<2.0	<1.0	<2.0	2.9	<30	26	<1.0	--	--
		08-12-99	--	--	--	--	--	--	--	.16	.12
		08-12-99	<2.0	<1.0	<2.0	<2.0	E22	23	--	14	.39
		09-14-99	<1.0	<1.0	<1.0	1.9	<30	24	<1.0	--	--
		10-06-98	<2.0	4.6	<2.0	<2.0	<30	103	<1.0	--	--
		01-14-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		01-14-99	<3.0	13	<3.0	<3.0	<50	952	<1.0	--	--
		03-03-99	<3.0	16	<3.0	4.1	<50	825	<1.0	--	--
		04-15-99	<3.0	<1.0	<3.0	3.9	<50	294	<1.0	--	--
10336040 10336042 10336045		05-26-99	<3.0	<1.0	<3.0	3.4	E21	298	<1.0	--	--
		06-30-99	<3.0	<1.0	<3.0	4.4	<50	183	<1.0	--	--
		08-11-99	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0	--	--
		08-11-99	<2.0	<1.0	<2.0	<2.0	<30	32	--	57	1.3
		09-14-99	<1.0	.86	<1.0	3.1	<30	70	<1.0	--	--
		11-18-98	<3.0	3.4	<3.0	<3.0	<50	247	<1.0	--	--
		08-31-99	<2.0	<1.0	<2.0	3.3	E7.1	32	<1.0	--	--
		10-05-98	<1.0	4.2	<1.0	8.0	<30	<1.0	<1.0	--	--
		11-16-98	<1.0	2.2	<1.0	2.0	<30	<1.0	<1.0	--	--
		01-11-99	<1.0	9.0	<1.0	3.7	<30	<1.0	<1.0	--	--
395912118360601 400229118330501		03-01-99	<1.0	11	<1.0	5.8	<30	<1.0	<1.0	--	--
		04-12-99	<1.0	<1.0	<1.0	3.3	<30	<1.0	<1.0	--	--
		05-24-99	<2.0	<1.0	<2.0	8.2	<10	<2.0	<1.0	--	--
		06-28-99	<2.0	<1.0	<2.0	2.4	63	<2.0	<1.0	--	--
		08-09-99	<3.0	<1.0	<3.0	3.1	<30	<3.0	--	12	.31
		08-31-99	<3.0	<1.0	<3.0	4.1	<10	<3.0	<1.0	--	--
		01-13-99	<6.0	<6.0	<6.0	6.1	<200	416	<1.0	--	--
		03-03-99	<6.0	20	<6.0	8.2	<100	1060	<1.0	--	--
		04-15-99	<6.0	<1.0	<6.0	7.2	<100	290	<1.0	--	--
		05-26-99	<5.0	<1.0	<5.0	<5.0	<100	246	<1.0	--	--
		06-30-99	<4.0	<10	<4.0	4.1	<100	99	<1.0	--	--
		08-11-99	<5.0	<1.0	<5.0	<5.0	<50	106	<1.0	--	--
		09-14-99	<1.0	<1.0	1.1	1.6	E41	374	<1.0	--	--

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN-Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	DATE	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)
10333000	10-07-98	<1	<1.0	<1	<1	<1	--	--	<1
	10-07-98	115	1.0	1.1	<1	<1	-114.4	-13.62	3.6
	11-17-98	34.1	<1	<1	<1	1.1	-120.6	-15.11	2.7
	01-12-99	20.9	<1	<1	<1	1.2	-122.	-15.26	3.1
	03-02-99	16.8	1.5	<1	<1	<1	-118.5	-15.	5.2
	04-13-99	12.7	1.4	<1	<1	<1	-117.1	-14.7	4.0
	05-25-99	15.1	1.8	<1	<1	<1	-109.5	-13.24	5.8
	06-29-99	12.6	2.0	<1	<1	<1	-109.5	-13.42	3.6
	08-10-99	29.5	2.1	<1	<1	<1	-110.4	-13.03	5.2
	09-13-99	27.2	1.4	<1	<1	1.2	-106.5	-12.28	6.4
10335000	10-07-98	14.0	1.7	1.5	<1	<1	-98.1	-11.12	4.5
	11-17-98	16.8	1.9	<1	<1	<1	-95.3	-10.63	4.8
	01-12-99	31.1	2.0	<1	<1	2.0	-94.7	-10.36	5.8
	03-02-99	29.0	2.1	<1	<1	<1	-94.1	-10.65	5.0
	04-13-99	36.7	2.2	<1	<1	<1	-98.8	-11.3	5.4
	05-25-99	31.3	1.2	<1	<1	<1	-105.1	-12.31	4.6
	06-29-99	<1	<1	<1	<1	<1	--	--	<1
	06-29-99	28.7	1.1	<1	<1	<1	-103.6	-12.18	5.2
	08-10-99	23.4	2.1	<1	<1	<1	-100.8	-11.52	5.7
	09-13-99	23.0	1.5	<1	<1	<1	-98.	-10.81	6.4
10336000	10-06-98	14.6	1.8	1.5	<1	<1	-98.8	-11.17	4.6
	11-18-98	17.3	1.7	1.1	<1	<1	-97.	-10.73	4.9
	01-13-99	30.7	1.9	<1	<1	<1	-93.	-10.36	5.7
	03-03-99	<1.	<1	<1	<1	<1	--	--	<1
	03-03-99	30.7	2.3	<1	<1	<1	-94.4	-10.72	5.3
	04-14-99	34.2	2.1	<1	<1	<1	-99.	-11.03	6.5
	05-26-99	<1.	<1	<1	<1	<1	--	--	<1
	05-26-99	28.9	1.2	<1	<1	<1	-102.7	-12.	5.0
	06-30-99	28.4	<1	<1	<1	<1	-103.4	-11.86	5.3
	08-11-99	--	--	--	--	--	--	--	--
10336035	08-11-99	22.5	2.1	<1	<1	<1	-101.	-11.03	5.7
	09-15-99	<1	<1	<1	<1	<1	--	--	<1
	09-15-99	23.3	1.5	<1	<1	<1	-96.4	-10.43	6.3
	10-06-98	22.3	2.5	2.9	<2	6.0	-100.9	-11.06	19
	11-19-98	<1	<1	<1	<1	<1	--	--	<1
	11-19-98	25.4	2.1	2.3	<2	<2	-102.8	-11.35	21
	01-13-99	33.1	3.1	2.5	<2	7.1	-101.9	-11.52	28
	03-04-99	40.2	8.1	1.4	<2	4.4	-100.5	-11.08	26
	04-14-99	<1	<1	<1	<1	<1	--	--	<1
	04-14-99	37.2	4.2	1.8	<2	2.4	-98.9	-10.79	28
400325118330401 10336039	05-25-99	27.0	3.2	<1	<2	2.8	-99.7	-11.04	23
	07-01-99	42.1	2.7	1.6	<2	3.2	-99.2	-10.93	24
	08-12-99	--	--	--	--	--	--	--	--
	08-12-99	39.8	4.3	2.1	<2	<2	-99.6	-11.01	24
	09-14-99	33.2	3.5	<1	<1	1.6	-99.3	-10.87	22
	10-06-98	19.1	2.1	<1	<2	<2	-100.7	-11.08	19
	01-14-99	<1	<1	<1	<1	1.1	--	--	<1
	01-14-99	10.7	3.0	2.1	<3	3.6	-100.	-10.87	31
	03-03-99	23.6	10	<1	<3	4.0	-97.	-10.5	28
	04-15-99	76.9	5.2	1.12	<3	<3	-96.5	-10.61	44
10336040 10336042 10336045	05-26-99	88.4	4.1	<1	<3	<3	-98.5	-10.77	51
	06-30-99	94.7	4.7	1.1	<3	4.1	-98.4	-11.04	42
	08-11-99	<1	<1	<1	<1	<1	--	--	<1
	08-11-99	25.5	3.8	<1	<2	<2	-100.4	-11.11	16
	09-14-99	25.5	4.1	<2.4	<1	4.2	-97.9	-10.71	21
	11-18-98	94.5	4.0	1.9	<3	4.2	-94.5	-10.3	53
	08-31-99	96.9	6.7	2.5	<2	2.7	-96.	-10.4	38
	10-05-98	44.3	1.7	1.3	<1	1.1	-77.5	-6.93	20
	11-16-98	35.2	1.7	1.5	<1	1.2	-85.2	-8.65	15
	01-11-99	40.6	2.0	1.6	<1	1.8	-86.5	-8.96	18
395912118360601 400229118330501	03-01-99	38.6	4.3	<1	<1	1.2	-84.8	-8.62	14
	04-12-99	48.8	2.4	<1	<1	1.5	-81.3	-8.21	19
	05-24-99	67.4	2.2	<1	<2	<2	-68.9	-5.32	29
	06-28-99	66.2	2.2	1.2	<2	2	-68.5	-5.04	22
	08-09-99	106	3.1	1.0	<3	<3	-42.4	.84	34
	08-31-99	151	4.9	3.4	<3	3.1	-55.3	-1.5	50
	01-13-99	373	10	2.9	<6	<6	-85.8	-8.11	174
	03-03-99	237	27	1.9	<6	<6	-84.5	-7.89	104
	04-15-99	282	11	<1	<6	<6	-90.9	-9.07	124
	05-26-99	212	7.1	1.0	<5	<5	-94.7	-9.93	110
	06-30-99	140	7.5	1.4	<4	5.8	-96.7	-10.49	64
	08-11-99	132	7.3	<1	<5	32	-95.8	-10.05	51
	09-14-99	194	7.9	<1	<1	4.8	-96.5	-9.96	79

QUALITY OF SURFACE WATER
HUMBOLDT RIVER BASIN--Continued

DATA ON BED-SEDIMENT CHEMISTRY, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

							CALCIUM			MAGNE- SIUM		POTAS- SIUM
							BOT MAT			BOT MAT		BOT MAT
							<63U WS			<63U WS		<63U WS
STATION NUMBER	STATION NAME						DATE	TIME	FIELD PERCENT (34830)	FIELD PERCENT (34900)	FIELD PERCENT (34940)	
10333000	HUMBOLDT RIVER NEAR IMLAY, NV						08-10-99	0955	4.9	1.2	2.2	
10335000	HUMBOLDT RIVER NEAR RYE PATCH, NV						08-10-99	1630	7.0	1.3	2.1	
10336000	HUMBOLDT RIVER NEAR LOVELOCK, NV						08-11-99	0930	6.2	1.5	2.2	
10336035	TOULON DRAIN AT DERBY FIELD ROAD NEAR TOULON, NV						08-12-99	1000	6.3	1.6	2.3	
10336040	ARMY DRAIN AT IRON BRIDGE NEAR TOULON, NV						08-11-99	1330	6.1	1.3	2.1	
10336042	UPPER HUMBOLDT LAKE AT MOUTH ARMY DRAIN NEAR TOULON						08-31-99	1340	13	1.5	1.8	
10336045	LOWER HUMBOLDT DRAIN AT HUMBOLDT DYKE NEAR LOVELOCK						08-09-99	1500	17	2.9	1.3	
395912118360601	UPPER HUMBOLDT LAKE SAMPLE POINT NEAR MOUTH OF RIVER						08-31-99	1100	24	1.5	.9	
400229118330501	UNNAMED DRAIN EAST OF ARMY DRAIN NEAR DERBY FIELD						08-11-99	1445	7.4	1.2	1.8	
		SODIUM BOT MAT	SULFUR BOT MAT	PHOS- PHORUS BOT MAT	CARBON, INORG, SED, BM WS, <63U DW, REC (PER- CENT)	CARBON, ORG + INORG, SED, BM WS, <63U DW, REC (PER- CENT)	CARBON, ORGANIC SED, BM BOT MAT	ALUM- INUM BOT MAT	ANTI- MONY BOT MAT	ARSENIC BOT MAT	BERYL- LIUM BOT MAT	BISMUTH BOT MAT
DATE		<63U WS FIELD PERCENT (34960)	<63U WS FIELD PERCENT (34970)	<63U WS FIELD PERCENT (34935)	<63U WS FIELD PERCENT (49269)	<63U WS FIELD PERCENT (49267)	<63U WS FIELD PERCENT (49266)	<63U WS FIELD PERCENT (34790)	<63U WS FIELD (UG/G) (34795)	<63U WS FIELD (UG/G) (34800)	<63U WS FIELD (UG/G) (34805)	<63U WS FIELD (UG/G) (34810)
08-10-99	1.1	.07	.11	1.11	2.15	1.04	6.8	2.2	8.2	970	2.6	<1
08-10-99	1.1	<.05	.12	1.70	2.64	.94	6.6	3.4	14	900	2.0	<1
08-11-99	1.3	.11	.12	1.48	2.09	.61	7.0	3.6	13	890	2.6	<1
08-12-99	1.0	.18	.14	1.52	2.95	1.43	6.8	2.7	16	830	2.6	<1
08-11-99	.96	.15	.12	1.46	2.97	1.51	6.8	3.6	21	710	2.2	<1
08-31-99	.87	.39	.096	3.14	4.51	1.37	5.6	3.5	21	510	1.8	<1
08-09-99	.65	.15	.091	5.54	7.23	1.69	3.4	3.3	21	460	.92	<1
08-31-99	.90	.27	.068	6.66	8.19	1.53	2.7	2.0	22	400	.82	<1
08-11-99	1.0	.26	.10	1.91	3.89	1.98	5.6	4.8	20	600	1.6	<1
		CADMIUM BOT MAT	CERIUM BOT MAT	CHRO- MIUM BOT MAT	COBALT BOT MAT	COPPER BOT MAT	EURO- PIUM BOT MAT	GALLIUM BOT MAT	GOLD BOT MAT	HOLMIUM BOT MAT	IRON BOT MAT	LEAD BOT MAT
DATE		<63U WS FIELD (UG/G) (34825)	<63U WS FIELD (UG/G) (34835)	<63U WS FIELD (UG/G) (34840)	<63U WS FIELD (UG/G) (34845)	<63U WS FIELD (UG/G) (34850)	<63U WS FIELD (UG/G) (34855)	<63U WS FIELD (UG/G) (34860)	<63U WS FIELD (UG/G) (34870)	<63U WS FIELD (UG/G) (34875)	PERCENT (34880)	<63U WS FIELD (UG/G) (34885)
08-10-99	.68	77	51	10	33	1.1	17	<1	<1	2.9	38	21
08-10-99	.67	82	52	11	30	1.1	16	<1	<1	2.9	41	20
08-11-99	.70	84	62	11	38	1.2	17	<1	<1	3.1	42	27
08-12-99	.77	67	52	11	39	1.0	16	<1	<1	3.1	33	20
08-11-99	.94	58	51	12	42	1.0	17	<1	<1	3.6	32	20
08-31-99	.73	43	46	9.9	36	<1	13	<1	<1	2.9	23	12
08-09-99	.47	33	28	6.6	22	<1	8.5	<1	<1	2.0	16	14
08-31-99	<.1	21	27	4.9	18	<1	6.4	<1	<1	1.4	12	7.9
08-11-99	.51	52	42	10	45	<1	14	<1	<1	2.9	26	14
		LITHIUM BOT MAT	MANGA- NESE BOT MAT	MERCURY BOT MAT	MERCURY, SEDIMENT, BOTTOM MATERIAL	MERCURY, METHLY, SEDIMENT, BOTTOM MATERIAL	MOLYB- DENUM BOT MAT	NEODYM- IUM BOT MAT	NICKEL BOT MAT	NIOBIUM BOT MAT	SCAN- DIUM BOT MAT	SELE- NIUM BOT MAT
DATE		<63U WS FIELD (UG/G) (34895)	<63U WS FIELD (UG/G) (34905)	<63U WS FIELD (UG/G) (34910)	<63U WS FIELD (NG/G)	<63U WS FIELD (NG/G)	LOSS OF IGNITION (PERCENT) (UG/G) (34915)	<63U WS FIELD (UG/G) (34920)	<63U WS FIELD (UG/G) (34925)	<63U WS FIELD (UG/G) (34930)	<63U WS FIELD (UG/G) (34945)	<63U WS FIELD (UG/G) (34950)
08-10-99	60	780	.06	687	2.34	7.0	.73	31	25	9.0	9.8	.42
08-10-99	70	810	.06	5.76	0.127	1.7	.76	33	26	7.9	10	.57
08-11-99	79	710	.10	6.47	0.041	0.9	.76	35	27	8.6	10	.37
08-12-99	82	1400	.11	571	2.38	8.2	1.1	27	27	8.0	11	1.1
08-11-99	81	1800	.06	39.0	1.52	10.3	2.0	26	28	7.9	11	.85
08-31-99	77	1600	.05	--	--	--	6.5	19	26	14	10	1.5
08-09-99	130	480	.14	183	0.146	1.5	1.2	13	23	4.0	5.7	.66
08-31-99	58	470	.06	--	--	--	2.0	9.3	18	6.8	4.9	1.0
08-11-99	75	620	.03	--	--	--	2.0	21	29	6.5	10	.75
		SILVER BOT MAT	STRON- TIUM BOT MAT	TANTA- LUM BOT MAT	THAL- LIUM BOT MAT	TIN BOT MAT	TITA- NIUM, SED, BM WS, <63U DRY WGT REC PERCENT	VANA- DIUM BOT MAT	YTTRIUM BOT MAT	YTTER- BIUM BOT MAT	ZINC BOT MAT	THORIUM BOT MAT
DATE		<63U WS FIELD (UG/G) (34955)	<63U WS FIELD (UG/G) (34965)	<63U WS FIELD (UG/G) (34975)	<63 U TOTAL (UG/G) (04064)	<63U WS FIELD (UG/G) (34985)	<63U WS FIELD (UG/G) (49274)	<63U WS FIELD (UG/G) (35005)	<63U WS FIELD (UG/G) (35010)	<63U WS FIELD (UG/G) (35015)	<63U WS FIELD (UG/G) (35020)	<63U WS FIELD (UG/G) (34980)
08-10-99	.45	330	<1	<1	<1	2.1	.35	88	24	2.3	110	12
08-10-99	.40	370	<1	<1	<1	1.7	.38	100	21	2.2	99	13
08-11-99	.41	410	1.0	<1	<1	2.1	.38	110	24	2.2	120	16
08-12-99	.44	370	<1	<1	<1	2.3	.33	100	21	2.0	120	11
08-11-99	.41	360	1.0	<1	<1	2.1	.32	120	21	2.2	120	11
08-31-99	.21	510	1.2	<1	<1	2.1	.28	110	17	1.7	100	8.9
08-09-99	.20	1000	<1	<1	<1	.17	.78	12	12	1.2	71	5.9
08-31-99	.10	1100	<1	<1	<1	.14	.57	8.2	<1	<1	46	4.2
08-11-99	.34	360	<1	<1	<1	1.6	.28	140	17	1.7	100	9.8

GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
PARADISE VALLEY

412910117321001. Local number, 69 N42 E39 25CAC1.

LOCATION.--Lat 41°29'10", long 117°32'10", Hydrologic Unit 16040109, in Humboldt County.

AQUIFER.--Alluvium of Quaternary age.

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.

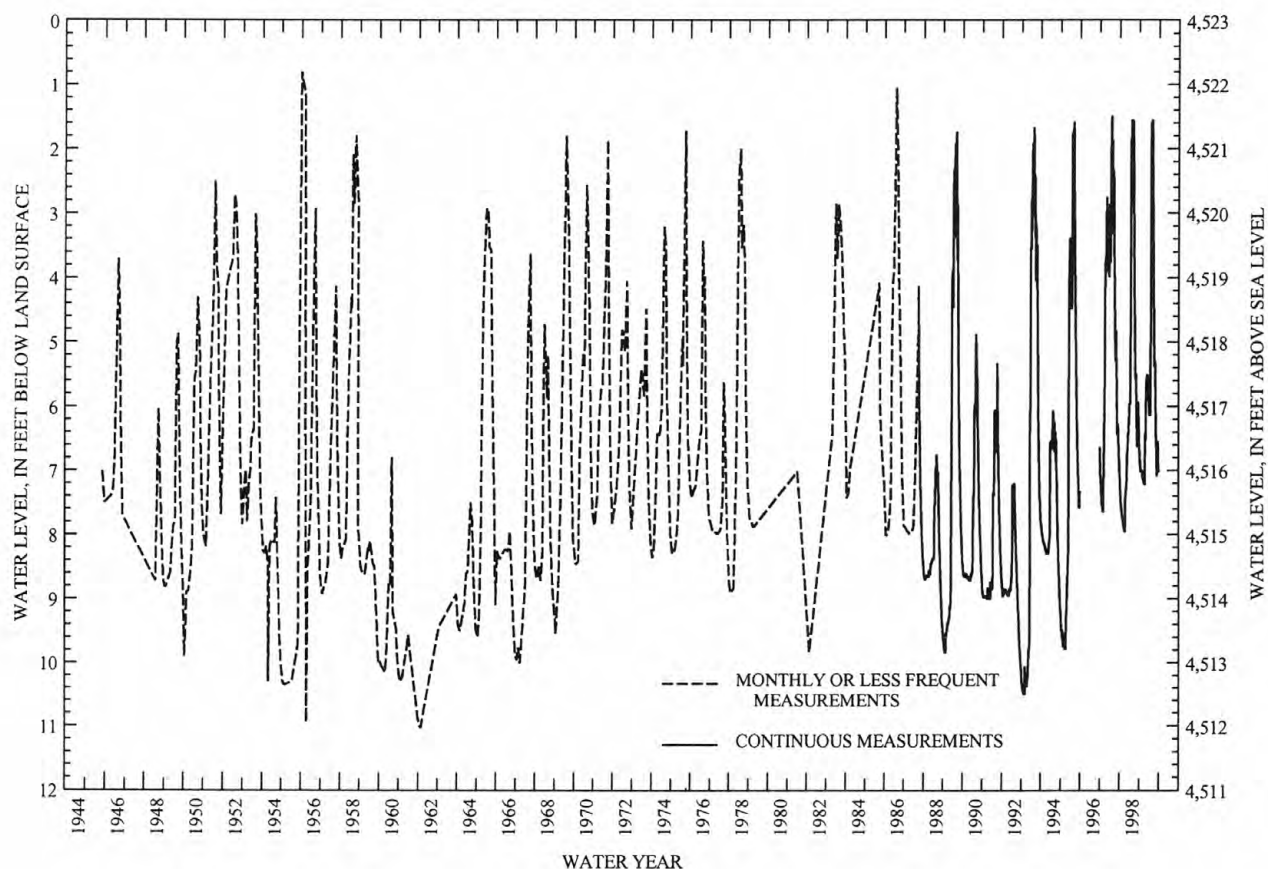
REVISED RECORDS.--WDR-NV-86-1: 1984-85.

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.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	6.54	7.01	---	7.19	6.52	5.52	5.92	3.19	---	4.81	5.90	6.90
10	6.68	7.01	7.10	7.21	5.81	5.58	6.01	1.89	---	5.19	6.19	6.75
15	6.80	7.01	7.13	7.22	5.70	5.62	6.10	1.59	---	5.38	6.45	6.54
20	6.90	7.01	7.13	7.04	5.57	5.69	6.13	1.64	---	5.32	6.68	6.65
25	6.85	7.01	7.16	6.45	5.53	5.72	6.13	1.87	---	5.32	6.89	6.86
EOM	6.96	---	7.17	6.47	5.53	5.82	5.81	1.55	4.36	5.63	7.09	7.02

HIGHEST 1.55 MAY 31 LOWEST 7.22 JANUARY 13, 14, 15, 17



GROUND-WATER LEVELS, PRIMARY OBSERVATION WELLS
DESERT VALLEY

40490118223601. Local number, 31 N34 E22 16ABDC1.

LOCATION.--Lat 40°49'43", long 118°22'36", Hydrologic Unit 16040201, in Pershing County.

AQUIFER.--Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth 155 ft, cased to 152 ft with 2 in. pvc pipe, perforated 147 to 152 ft.

INSTRUMENTATION.--Water level recorder March 1999 to August 1999, every three hours; August 1999 to current year, every two hours.

DATUM.--Elevation of land-surface datum is 4,210 ft. above sea level from topographic map. Measuring point: Top of north edge of casing, 0.0 ft above land-surface datum.

REMARKS.--Haystack Butte well.

PERIOD OF RECORD.--1990, 1991, January 1999 to March 1999 intermittent, March 1999 to July 1999, every three hours, August 1999 to current year, every two hours.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 83.20 ft below land-surface datum, November 11, 1990; lowest measured, 118.62 ft below land-surface datum, September 27, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	118.39	118.38	118.39	118.41	118.48	118.51
2	---	---	---	---	---	---	118.38	118.38	118.41	118.41	118.48	118.52
3	---	---	---	---	---	---	118.38	118.40	118.42	118.43	118.47	118.53
4	---	---	---	---	---	---	118.37	118.42	118.42	118.45	118.47	118.52
5	---	---	---	---	---	---	118.38	118.40	118.41	118.42	118.47	118.51
6	---	---	---	---	---	---	118.39	118.38	118.41	118.42	118.49	118.53
7	---	---	---	---	---	---	118.37	118.40	118.41	118.44	118.49	118.53
8	---	---	---	---	---	---	118.38	118.40	118.42	118.42	118.47	118.52
9	---	---	---	---	---	---	118.40	118.41	118.42	118.43	118.47	118.53
10	---	---	---	---	---	---	118.36	118.40	118.42	118.43	118.49	118.53
11	---	---	---	---	---	---	118.39	118.40	118.42	118.44	118.50	118.54
12	---	---	---	---	---	---	118.40	118.38	118.42	118.43	118.48	118.54
13	---	---	---	---	---	---	118.40	118.42	118.41	118.43	118.48	118.53
14	---	---	---	---	---	---	118.39	118.41	118.40	118.44	118.49	118.53
15	---	---	---	---	---	---	118.38	118.42	118.41	118.44	118.50	118.54
16	---	---	---	---	---	---	118.38	118.41	118.42	118.45	118.50	118.54
17	---	---	---	---	---	---	118.39	118.41	118.42	118.45	118.49	118.55
18	---	---	---	---	---	---	118.39	118.41	118.42	118.45	118.49	118.54
19	---	---	---	---	---	118.38	118.38	118.40	118.41	118.44	118.50	118.55
20	---	---	---	---	---	118.38	118.37	118.41	118.41	118.45	118.50	118.56
21	---	---	---	---	---	118.41	118.37	118.42	118.43	118.46	118.50	118.55
22	---	---	---	---	---	118.36	118.39	118.41	118.43	118.46	118.50	118.55
23	---	---	---	---	---	118.40	118.38	118.41	118.41	118.45	118.50	118.55
24	---	---	---	---	---	118.37	118.38	118.40	118.41	118.46	118.50	118.57
25	---	---	---	---	---	118.39	118.39	118.42	118.42	118.45	118.50	118.56
26	---	---	---	---	---	118.38	118.38	118.41	118.41	118.45	118.50	118.56
27	---	---	---	---	---	118.40	118.38	118.41	118.43	118.46	118.51	118.58
28	---	---	---	---	---	118.39	118.38	118.40	118.42	118.46	118.51	118.57
29	---	---	---	---	---	118.35	118.39	118.43	118.41	118.46	118.50	118.56
30	---	---	---	---	---	118.36	118.39	118.43	118.42	118.46	118.53	118.55
31	---	---	---	---	---	118.39	---	118.40	---	118.47	118.50	---
MAX	---	---	---	---	---	---	118.40	118.43	118.43	118.47	118.53	118.58
MIN	---	---	---	---	---	---	118.36	118.38	118.39	118.41	118.47	118.51

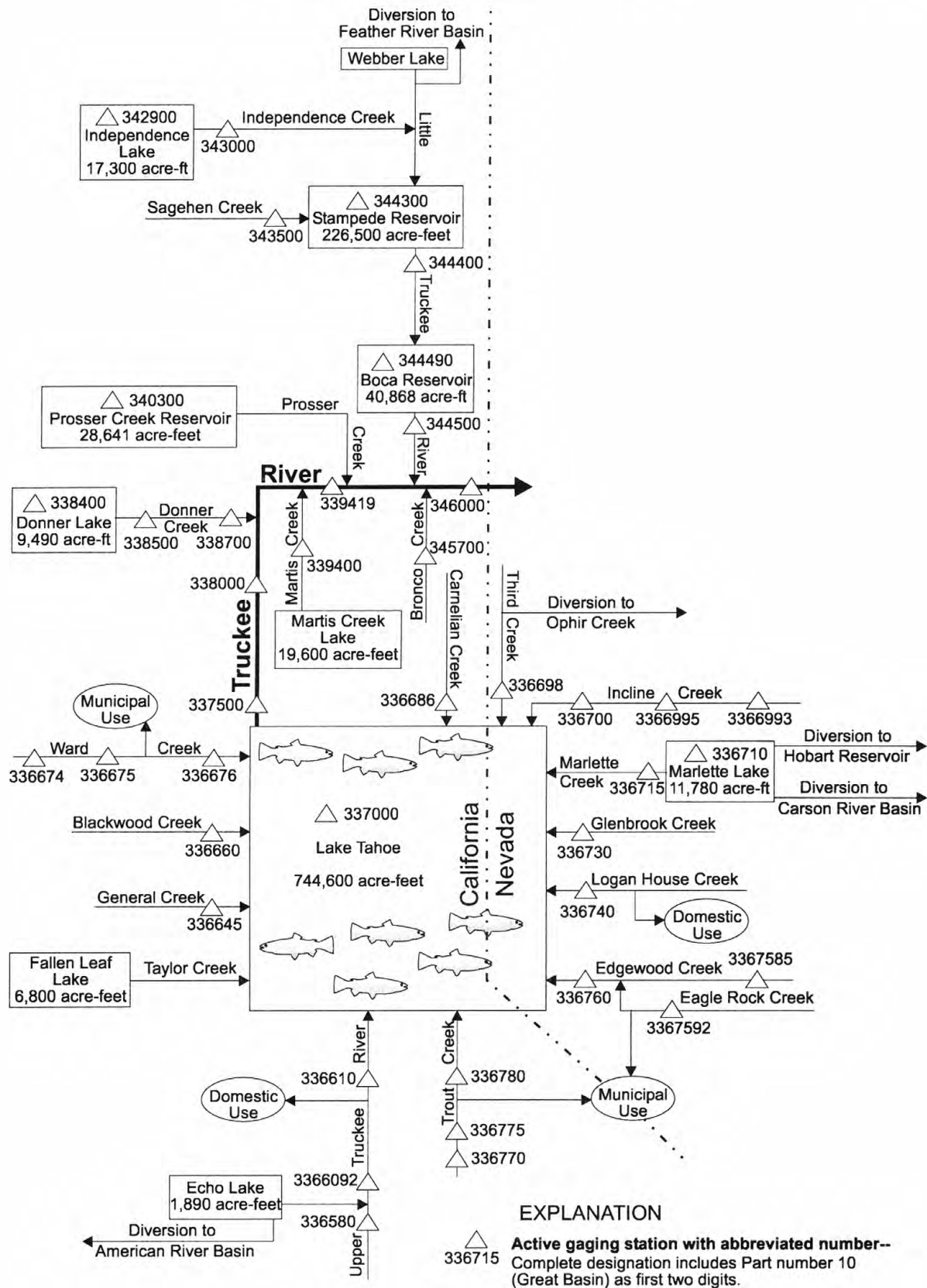


Figure 32. Schematic diagram of flow system and gaging stations in the Pyramid and Winnemucca Lakes Basin upstream of station 346000.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336500 PYRAMID LAKE NEAR NIXON, NV

LOCATION.--Lat 39°59'05", long 119°30'00", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.3 T.24 N., R.22 E., Washoe County, Hydrologic Unit 16050103, in Pyramid Lake Indian Reservation, 0.25 mi north of the Pyramid, 1.6 mi northeast of Anaho Island, and 13 mi northwest of Nixon.

DRAINAGE AREA.--2,720 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, September 1986 to current year, nonrecording gage along east lake shore near the Pyramid.

REMARKS.--Truckee Canal diverts water out of the basin to Lahontan Reservoir (station 10312100). Elevations are given to the nearest 0.1 ft and contents to four significant figures to reflect trends of change. Any single observation, however, may be affected by wind and seiche movements on the lake surface. Elevations published in WSP 1314 for 1867 and 1871 (3,875.9 and 3,884.9 ft, respectively) have been revised to 3,867 and 3,876 ft, respectively, on the basis the data and conclusions of Hardman and Venstrom (American Geophysical Union Transactions, 1941, p. 71-90), and Harding (University of California Archives Report 16, 1965). See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 3,877.9 ft, in 1891; minimum observed, 3,783.9 ft, February 6, and March 6, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 23,770,000 acre-ft, July 6, elevation 3,817.9 ft; minimum contents observed, 23,150,000 acre-ft, October 29, elevation, 3,812.6 ft.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
September 30.....	3812.7	23,160,000	--
October 31.....	3812.6	23,150,000	-10,000
November 30.....	3812.8	23,180,000	+30,000
December 31.....	3812.9	23,190,000	+10,000
CALENDAR YEAR 1998.....	--	--	+570,000
January 31.....	3813.4	23,240,000	+50,000
February 29.....	3814.2	23,330,000	+90,000
March 31.....	3815.1	23,440,000	+110,000
April 30.....	3816.0	23,540,000	+100,000
May 31.....	3816.9	23,650,000	+110,000
June 30.....	3817.8	23,760,000	+110,000
July 31.....	3817.7	23,740,000	-20,000
August 31.....	3817.4	23,710,000	-30,000
September 30.....	3817.2	23,680,000	-30,000
WATER YEAR 1999	--	--	+520,000

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°47'47", long 120°01'05", in NW 1/4 SW 1/4 sec.17, T.11 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 0.25 mi upstream from bridge, 0.5 mi upstream of confluence of Big Meadow and Grass Lake Creeks, 0.5 mi west of State Highway 89, and 4.0 mi south of Meyers, 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 fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,010 ft³/s, January 2, 1997, gage height, 11.31 ft; minimum daily, 0.76 ft³/s, September 1, 1990.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharges of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	1800	*530	*8.91	June 14	2045	394	8.25

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	8.5	13	7.4	7.9	8.8	14	51	268	e84	13	6.5
2	8.2	7.1	10	7.3	7.7	9.0	14	64	232	e81	11	5.8
3	7.7	6.3	12	7.3	7.8	10	13	50	173	e80	11	5.6
4	7.5	6.0	13	7.0	8.2	10	13	43	146	e79	10	5.2
5	7.0	5.7	11	6.8	7.9	9.6	13	50	156	e76	9.6	4.8
6	6.6	5.3	11	6.8	7.2	9.3	12	83	199	e70	10	4.5
7	6.5	5.7	9.9	6.7	e7.4	9.0	12	117	199	e69	8.8	4.4
8	6.5	5.3	9.3	6.5	e7.5	8.7	12	112	183	e67	7.8	4.2
9	5.9	5.5	8.7	6.7	e7.7	9.4	12	101	181	e65	8.2	4.1
10	5.4	5.6	8.8	6.9	e8.0	8.7	11	100	199	64	28	4.7
11	5.3	6.0	9.0	6.9	e8.5	8.3	11	130	235	62	30	7.4
12	5.1	6.4	9.4	6.9	e9.0	8.1	11	160	258	60	20	5.4
13	4.8	6.0	10	6.8	8.0	8.4	12	141	295	58	17	4.9
14	4.7	6.5	10	6.8	7.6	8.7	18	129	297	54	15	4.3
15	4.7	6.5	9.8	8.5	7.3	8.5	22	122	305	48	13	3.7
16	4.8	6.3	9.6	11	7.9	8.7	27	127	290	41	12	3.4
17	4.4	6.6	9.7	12	e8.2	9.8	39	152	282	36	11	3.2
18	4.3	7.3	e9.7	14	e8.6	12	53	167	e274	35	9.9	3.9
19	4.0	8.2	e9.7	14	8.8	13	69	181	e216	31	9.3	5.3
20	3.8	7.0	e9.7	14	8.2	13	79	196	e159	27	8.7	4.9
21	3.7	6.2	e9.6	12	9.4	12	74	208	e160	25	8.6	4.9
22	4.0	7.7	e9.6	11	8.4	11	56	250	e161	23	8.3	4.7
23	3.9	12	e9.5	11	8.0	11	43	303	e154	22	8.9	4.8
24	4.6	11	e9.3	11	7.9	12	39	327	e148	21	8.2	4.5
25	5.3	8.6	e9.1	9.9	8.2	13	56	361	e119	19	7.6	4.7
26	5.9	8.0	9.0	9.2	7.8	17	78	395	e91	19	7.8	4.2
27	6.7	8.0	8.5	8.5	7.8	20	72	360	e77	19	11	3.9
28	6.6	7.9	8.1	8.2	8.3	19	60	350	e76	16	8.6	3.5
29	7.1	9.1	7.6	8.2	---	18	46	284	e78	14	7.6	3.3
30	6.8	20	7.5	8.2	---	16	41	253	e83	14	7.1	2.8
31	6.0	---	7.7	8.1	---	15	---	274	---	13	6.8	---
TOTAL	177.4	226.3	298.8	275.6	225.2	355.0	1032	5641	5694	1392	353.8	137.5
MEAN	5.72	7.54	9.64	8.89	8.04	11.5	34.4	182	190	44.9	11.4	4.58
MAX	9.6	20	13	14	9.4	20	79	395	305	84	30	7.4
MIN	3.7	5.3	7.5	6.5	7.2	8.1	11	43	76	13	6.8	2.8
AC-FT	352	449	593	547	447	704	2050	11190	11290	2760	702	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	3.38	6.43	10.2	20.2	13.1	22.3	51.0	136	137	55.9
MAX	5.72	20.7	37.4	120	39.2	41.3	102	216	329	220
(WY)	1999	1997	1997	1997	1996	1995	1997	1996	1995	1995
MIN	2.12	2.13	1.69	1.57	3.06	6.64	15.1	51.2	12.1	3.40
(WY)	1993	1991	1991	1991	1991	1991	1991	1992	1992	1994

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1990 - 1999

ANNUAL TOTAL	19915.4	15808.6	
ANNUAL MEAN	54.6	43.3	
HIGHEST ANNUAL MEAN			72.3
LOWEST ANNUAL MEAN			14.1
HIGHEST DAILY MEAN	315	Jun 16	395
LOWEST DAILY MEAN	3.1	Jan 10	2.8
ANNUAL SEVEN-DAY MINIMUM	3.6	Jan 4	3.8
INSTANTANEOUS PEAK FLOW			530
INSTANTANEOUS PEAK STAGE			8.91
INSTANTANEOUS LOW FLOW			2.0
ANNUAL RUNOFF (AC-FT)	39500	31360	29490
10 PERCENT EXCEEDS	191	155	124
50 PERCENT EXCEEDS	12	9.6	9.0
90 PERCENT EXCEEDS	5.9	5.2	2.1

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

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.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe with in 0.5°C. Interruptions in water temperature record due to loss of hydrologic communication with stream. Water temperature data for September 1997 are unpublished but are available from U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 14.5°C, August 12, 1998, (temperature presumably higher during period probe was out of water, August 14 to September 30, 1998; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 14.0°C, several days in June to August; minimum, freezing point, many days December to March, May.

WATER-QUALITY DATA. WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								
29...	1320	7.0	--	--	--	40	6.0	4.5
NOV								
30...	1300	24	--	--	--	28	2.5	1.0
DEC								
22...	1405	6.7	--	--	--	33	-7.0	.0
JAN								
22...	1340	12	--	--	--	33	2.5	1.5
FEB								
27...	1240	6.7	--	--	--	36	12.0	2.5
MAR								
24...	1410	12	--	--	--	32	9.5	3.0
APR								
16...	1140	25	--	--	--	25	12.0	1.5
21...	1640	67	--	--	--	20	8.0	2.5
MAY								
07...	1245	102	--	--	--	17	16.0	3.0
10...	1350	88	--	--	--	19	12.5	4.0
13...	1735	150	--	--	--	19	6.0	2.5
20...	1630	214	--	--	--	19	13.0	3.0
26...	1430	372	--	--	--	17	15.5	3.0
JUN								
03...	1520	152	593	99	10.4	21	3.5	3.0
09...	1510	147	--	--	--	21	14.5	6.5
14...	1255	211	--	--	--	19	23.5	7.0
21...	1415	224	--	--	--	19	21.5	9.0
JUL								
07...	1320	51	--	--	--	24	22.5	11.0
AUG								
19...	1430	5.4	--	--	--	38	23.0	12.5
SEP								
21...	1250	2.0	--	--	--	46	21.0	9.0

PYRAMID AND WINNEMUCCA LAKES BASIN

10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
29...	.004	.06	.004	.010	.019	99	.02	1
NOV								
30...	.002	.15	.019	.006	.022	296	.33	5
DEC								
22...	.001	.09	.033	.008	.015	167	.02	1
JAN								
22...	.003	.08	.023	.007	.017	170	<.03	<1
FEB								
27...	.004	.08	.034	.008	.014	144	.02	1
MAR								
24...	.002	.09	.020	.005	.012	155	.03	1
APR								
16...	<.001	.09	.022	.003	.013	167	.14	2
21...	.002	.08	.021	.003	.019	215	2.0	11
MAY								
07...	<.001	.18	.017	.003	.014	144	1.4	5
10...	.001	.09	.018	.004	.015	117	1.2	5
13...	<.001	.09	.018	.004	.021	246	2.4	6
20...	.001	.08	.008	.004	.018	144	4.6	8
26...	.002	.11	.015	.003	.025	217	34	34
JUN								
03...	<.001	.06	.002	.004	.031	210	2.5	6
09...	.001	.06	.006	.005	.017	99	1.2	3
14...	<.001	.05	.003	.007	.020	117	4.0	7
21...	.002	.05	.004	.006	.019	125	3.0	5
JUL								
07...	.001	<.04	.005	.010	.025	96	.28	2
AUG								
19...	.004	.05	.019	.016	.034	87	.03	2
SEP								
21...	.004	.05	.025	.017	.032	77	.01	1

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	1.0	.5	.5
2	---	---	---	---	---	---	---	---	---	1.0	.0	.5
3	---	---	---	---	---	---	---	---	---	1.0	.5	.5
4	---	---	---	---	---	---	---	---	---	1.0	.0	.5
5	---	---	---	---	---	---	---	---	---	1.0	.5	.5
6	---	---	---	---	---	---	---	---	---	1.0	.5	.5
7	---	---	---	---	---	---	---	---	---	1.0	.5	.5
8	---	---	---	---	---	---	---	---	---	1.0	.5	.5
9	---	---	---	---	---	---	---	---	---	.5	.0	.5
10	---	---	---	---	---	---	---	---	---	1.0	.0	.5
11	---	---	---	---	---	---	.5	.5	.5	1.0	.5	.5
12	---	---	---	---	---	---	1.0	.5	.5	1.0	.5	.5
13	---	---	---	---	---	---	1.0	.5	.5	1.0	.5	.5
14	---	---	---	---	---	---	1.0	.5	.5	1.5	.5	1.0
15	---	---	---	---	---	---	1.0	.5	.5	1.0	.0	1.0
16	---	---	---	---	---	---	1.0	.5	.5	1.0	.0	.5
17	---	---	---	---	---	---	1.0	.5	.5	1.0	.5	.5
18	---	---	---	---	---	---	1.0	.5	.5	1.0	.0	.5
19	---	---	---	---	---	---	.5	.0	.5	.5	.0	.0
20	---	---	---	---	---	---	.0	.0	.0	.5	.0	.0
21	---	---	---	---	---	---	.0	.0	.0	.5	.0	.5
22	---	---	---	---	---	---	.0	.0	.0	1.0	.5	.5
23	---	---	---	---	---	---	.0	.0	.0	1.0	.0	.5
24	---	---	---	---	---	---	.5	.0	.0	.0	.0	.0
25	---	---	---	---	---	---	.5	.0	.0	.5	.0	.0
26	---	---	---	---	---	---	.5	.5	.5	.5	.5	.5
27	---	---	---	---	---	---	.5	.5	.5	.5	.0	.5
28	---	---	---	---	---	---	1.0	.5	.5	.5	.0	.0
29	---	---	---	---	---	---	1.0	.5	.5	.5	.0	.0
30	---	---	---	---	---	---	1.0	.5	.5	.5	.5	.5
31	---	---	---	---	---	---	1.0	.5	1.0	.5	.5	.5
MONTH	---	---	---	---	---	---	---	---	---	1.5	.0	.4

PYRAMID AND WINNEMUCCA LAKES BASIN
10336580 UPPER TRUCKEE RIVER AT SOUTH UPPER TRUCKEE ROAD NEAR MEYERS, CA--Continued

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.5	.0	.5	2.0	.5	1.0	1.0	.5	.5	4.0	1.5	2.0
2	.5	.0	.5	2.0	.5	1.0	2.0	.5	1.0	2.0	.5	1.5
3	1.0	.5	.5	1.5	.5	1.0	1.0	.5	.5	1.0	.0	.5
4	1.0	.5	1.0	1.5	.5	1.0	2.0	.5	1.0	3.5	.0	1.5
5	1.0	.5	.5	1.5	.0	.5	1.0	.5	.5	4.5	.5	2.0
6	1.0	.0	.5	1.5	.5	1.0	1.0	.5	.5	4.0	.5	1.5
7	.5	.0	.0	1.5	.0	.5	2.0	1.0	1.0	4.0	.5	2.0
8	.5	.0	.0	1.0	.0	.5	1.0	.5	.5	4.0	1.0	2.0
9	.5	.0	.0	.5	.0	.0	.5	.5	.5	4.0	1.0	2.0
10	.5	.0	.0	.0	.0	.0	1.0	.5	.5	4.5	1.5	2.5
11	.5	.0	.0	1.0	.0	.5	1.5	1.0	1.0	4.5	1.0	2.5
12	.5	.5	.5	1.0	.0	.0	2.5	1.0	1.5	4.0	1.0	2.0
13	1.0	.5	.5	1.5	.0	.5	3.0	1.0	2.0	4.0	1.0	2.5
14	1.0	.5	.5	1.5	.5	.5	3.0	1.0	1.5	4.0	1.0	2.0
15	1.0	.5	.5	1.5	.0	1.0	3.0	1.0	2.0	4.0	.5	2.0
16	1.0	.5	1.0	2.0	.0	1.0	3.0	1.0	1.5	4.5	1.0	2.5
17	1.0	.5	1.0	2.0	.0	1.0	3.0	1.0	1.5	5.0	1.0	2.0
18	1.5	.0	1.0	2.0	.0	.5	3.0	.5	1.5	3.5	1.0	2.0
19	1.0	.5	.5	1.5	.5	1.0	3.0	.5	1.5	4.0	1.0	2.0
20	1.0	.0	.5	1.5	.5	1.0	3.0	1.0	1.5	4.0	1.0	2.0
21	.5	.0	.5	1.5	.0	.5	3.5	1.0	2.0	4.5	1.0	2.0
22	1.0	.5	.5	2.0	.0	.5	2.5	1.0	1.5	4.5	1.5	2.0
23	1.5	.5	1.0	2.5	.5	1.5	2.5	1.5	1.5	4.5	1.5	2.0
24	1.5	.5	1.0	2.5	1.0	2.0	4.0	1.0	2.5	4.0	1.5	2.5
25	1.0	.5	.5	3.0	1.5	2.0	4.5	1.0	2.5	5.0	2.0	3.0
26	1.0	.0	.5	3.0	1.0	1.5	2.5	1.0	1.5	4.5	2.0	2.5
27	2.0	1.0	1.0	2.5	1.0	1.5	3.0	1.0	2.0	5.5	2.0	3.0
28	1.5	1.0	1.0	2.5	1.0	1.5	1.5	.5	1.0	6.0	2.0	3.0
29	---	---	---	2.5	1.0	1.5	2.0	.5	1.5	5.0	2.0	3.0
30	---	---	---	2.5	.5	1.5	4.0	1.0	2.5	6.0	2.0	3.5
31	---	---	---	1.0	.5	.5	---	---	---	6.5	2.0	3.5
MONTH	2.0	.0	.6	3.0	.0	.9	4.5	.5	1.4	6.5	.0	2.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	5.0	2.5	3.5	14.0	8.0	10.5	12.5	8.5	10.5	9.5	7.0	8.0
2	4.0	1.5	3.0	13.5	8.0	10.5	12.0	7.5	9.5	10.0	7.0	8.5
3	3.5	1.0	2.5	12.5	7.5	9.5	12.5	7.5	10.0	10.5	6.5	8.5
4	4.5	2.5	3.0	12.0	7.0	9.0	11.0	8.5	10.0	10.5	7.0	8.5
5	8.0	3.0	5.0	13.0	6.5	10.0	11.5	8.5	10.0	11.5	7.5	9.5
6	7.0	2.5	4.5	13.5	7.5	10.5	11.0	9.0	10.0	12.0	8.0	10.0
7	6.5	2.0	3.5	13.5	8.5	11.0	11.0	7.5	9.0	12.0	8.0	9.5
8	7.0	1.5	4.0	13.0	7.5	10.5	10.5	8.0	9.5	12.0	8.5	10.0
9	6.5	1.5	4.0	13.5	7.0	10.5	10.5	8.5	10.0	10.5	8.5	9.5
10	8.0	2.0	4.5	13.5	8.5	11.5	10.5	4.5	8.5	11.5	8.0	9.5
11	8.5	3.0	5.0	14.0	9.0	11.5	10.5	6.0	8.0	11.5	8.0	9.5
12	8.0	3.0	5.0	14.0	9.5	12.0	12.0	7.5	10.0	10.5	8.0	9.5
13	8.5	3.5	5.0	14.0	10.5	12.0	13.0	9.0	11.0	12.0	8.0	9.5
14	9.0	3.5	5.0	13.5	9.5	11.5	12.0	8.5	10.0	11.5	8.0	9.5
15	8.0	4.0	5.5	13.0	9.0	11.0	12.0	7.5	10.0	11.0	7.5	9.0
16	9.5	4.0	6.0	12.0	8.5	10.5	13.0	9.0	11.0	11.5	7.5	9.0
17	10.0	4.0	6.5	11.5	8.0	9.5	13.0	8.5	11.0	11.0	8.0	9.5
18	10.0	4.0	6.5	11.0	6.5	9.0	13.5	10.5	11.5	11.0	9.5	10.0
19	10.0	4.5	7.0	11.5	7.0	9.5	13.5	9.5	11.5	11.0	8.0	9.5
20	11.0	4.5	7.5	11.0	7.5	9.0	14.0	9.5	11.5	10.5	8.0	9.5
21	10.5	5.5	8.0	11.0	6.5	8.5	13.5	9.5	11.5	11.0	7.5	9.0
22	12.0	6.0	8.5	11.5	7.0	9.5	13.0	10.0	12.0	10.5	8.5	9.5
23	12.0	6.5	9.0	11.5	6.5	9.0	14.0	10.5	12.0	11.0	8.5	9.5
24	11.5	7.0	8.5	11.0	7.0	9.0	14.0	10.0	12.0	11.5	8.5	9.5
25	11.0	5.5	8.0	11.5	6.5	9.0	13.5	10.5	12.0	12.0	8.5	10.0
26	11.5	5.0	8.0	12.0	7.5	10.0	13.0	11.5	12.0	11.5	8.5	10.0
27	12.0	5.5	8.5	12.0	7.5	10.0	14.0	11.0	12.0	11.0	8.0	9.5
28	13.0	6.5	9.5	12.5	8.0	10.5	14.0	10.0	12.0	10.0	7.0	8.0
29	13.0	7.0	10.0	12.0	8.0	10.0	13.5	10.0	12.0	10.5	6.5	8.5
30	14.0	7.5	10.5	11.5	7.0	9.5	12.0	9.5	11.0	11.0	7.5	9.0
31	---	---	---	12.5	8.0	10.0	11.0	7.5	9.0	---	---	---
MONTH	14.0	1.0	6.2	14.0	6.5	10.1	14.0	4.5	10.6	12.0	6.5	9.3

PYRAMID AND WINNEMUCCA LAKES BASIN
10336593 GRASS LAKE CREEK NEAR MEYERS, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°48'07", long 120°00'54", in SE 1/4 NW 1/4 sec.17, T.11 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, 50 ft upstream of Grass Lake Way, about 0.1 mi upstream from Upper Truckee River and about 0.4 mi downstream of State Highway 89.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In September 1996, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor streamflows and water temperature within the Upper Truckee River-Trout Creek watershed. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Records represent water temperature at probe within 0.5°C. Water temperature data for September 1997 were not published but are available from U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 15.0°C, June 30, July 1, 12, 13, 1999; minimum, freezing point on many days during winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.0°C, June 30, July 1, 12, 13; minimum, freezing point on many days from November to January, March to May.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.0	7.5	8.5	4.5	3.0	4.0	.5	.0	.5	1.0	.5	.5
2	8.5	7.0	7.5	3.0	1.5	2.5	1.5	.5	1.0	1.0	.5	.5
3	7.0	5.5	6.5	4.0	2.5	3.0	1.5	.0	1.0	1.0	.5	.5
4	6.0	4.0	5.0	4.0	2.0	3.0	.0	.0	.0	1.0	.5	.5
5	6.5	4.5	5.5	3.0	2.0	2.5	.0	.0	.0	1.0	.5	.5
6	7.0	4.5	6.0	2.0	1.0	1.5	.0	.0	.0	1.0	.5	1.0
7	7.0	5.0	6.0	2.0	1.0	1.5	.0	.0	.0	1.0	1.0	1.0
8	7.0	5.5	6.0	1.0	.5	1.0	.5	.0	.5	1.0	.5	.5
9	6.0	4.0	5.0	1.0	.0	.5	.5	.0	.5	.5	.5	.5
10	5.0	3.0	4.0	1.5	.5	1.0	1.0	.0	.5	1.0	.5	.5
11	5.5	3.0	4.5	2.0	1.0	1.5	1.0	1.0	1.0	1.0	.5	1.0
12	6.0	4.0	5.0	1.0	.0	.5	1.0	1.0	1.0	1.0	1.0	1.0
13	6.5	4.5	5.5	2.0	1.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0
14	5.5	4.0	5.0	2.5	1.5	2.0	1.0	.5	.5	1.5	1.0	1.0
15	5.0	3.5	4.5	2.5	1.5	2.0	1.0	.5	1.0	1.5	1.0	1.5
16	4.0	2.5	3.0	2.5	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0
17	4.0	2.0	2.5	2.5	.5	1.5	1.0	1.0	1.0	1.5	1.0	1.5
18	4.0	2.0	3.0	1.0	.5	.5	1.0	.5	1.0	1.5	.5	1.0
19	4.0	2.0	3.0	1.0	.0	.5	1.0	.0	.5	1.0	.5	.5
20	4.0	2.5	3.5	1.5	.0	1.0	.0	.0	.0	1.0	.0	.5
21	4.5	3.0	4.0	2.5	1.5	2.0	.0	.0	.0	.5	.0	.5
22	5.0	3.5	4.5	2.0	1.0	1.5	.0	.0	.0	1.0	.5	.5
23	5.0	3.0	4.0	2.5	.5	2.0	.0	.0	.0	1.0	.0	.5
24	5.0	3.5	4.5	1.0	.5	1.0	.0	.0	.0	.5	.0	.0
25	3.5	3.0	3.5	1.5	1.0	1.0	.5	.0	.0	.5	.0	.5
26	5.0	3.0	4.0	2.0	1.0	1.5	1.0	.5	.5	.5	.5	.5
27	5.0	3.5	4.0	2.5	1.5	2.0	1.0	.5	1.0	.5	.0	.5
28	5.5	4.0	4.5	2.0	1.0	1.5	1.0	1.0	1.0	.5	.0	.0
29	5.0	3.0	4.5	1.5	.5	1.0	1.0	.5	1.0	.5	.0	.5
30	3.0	2.0	2.5	2.0	.0	1.5	1.0	1.0	1.0	.5	.5	.5
31	4.0	1.5	3.0	---	---	---	1.0	1.0	1.0	1.0	.5	.5
MONTH	9.0	1.5	4.6	4.5	.0	1.6	1.5	.0	.6	1.5	.0	.7

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.0	.5	.5	1.5	1.0	1.5	1.0	.0	.5	3.5	1.0	2.0
2	1.0	.5	.5	1.5	1.0	1.5	1.5	.5	1.0	2.0	1.0	1.5
3	1.0	.5	1.0	1.5	1.0	1.5	1.0	.0	.5	1.0	.5	1.0
4	1.0	1.0	1.0	1.5	1.0	1.5	1.5	.0	1.0	3.5	.0	1.5
5	1.0	.5	1.0	1.5	.5	1.0	1.0	.5	.5	4.0	.5	2.0
6	1.0	.5	.5	1.5	1.0	1.5	1.0	.0	.5	4.5	1.0	2.0
7	1.0	.5	.5	1.5	.5	1.0	1.0	.5	1.0	3.5	1.0	2.0
8	1.0	.5	.5	1.0	.5	1.0	1.0	.0	.5	3.5	.5	1.5
9	.5	.5	.5	1.0	.5	.5	.5	.0	.0	3.5	.5	2.0
10	.5	.5	.5	1.0	.5	.5	1.0	.0	.5	4.0	.5	2.0
11	.5	.5	.5	1.0	.5	1.0	1.5	1.0	1.0	4.5	1.0	2.5
12	.5	.5	.5	1.0	.5	1.0	2.0	.5	1.0	4.5	1.0	2.5
13	1.0	.5	1.0	1.5	1.0	1.5	2.0	1.0	1.5	4.0	1.0	2.0
14	1.0	1.0	1.0	2.0	1.0	1.5	2.5	1.0	1.5	4.0	.5	2.0
15	1.0	.5	.5	2.0	1.0	1.5	3.0	1.0	1.5	4.5	.5	2.0
16	1.0	.5	1.0	2.0	1.0	1.5	3.0	1.0	1.5	5.0	.5	2.5
17	1.0	.5	1.0	2.5	1.0	1.5	3.0	1.0	1.5	6.0	1.0	3.0
18	1.5	.5	1.0	2.5	1.0	2.0	3.0	1.0	1.5	4.5	1.0	2.5
19	1.0	.5	.5	2.5	1.5	2.0	3.0	1.0	1.5	5.5	1.0	3.0
20	1.0	.5	.5	2.0	1.5	2.0	3.0	1.0	1.5	5.0	1.5	3.0
21	.5	.5	.5	2.0	1.0	1.5	3.0	1.0	1.5	6.5	1.5	3.5
22	1.0	.5	1.0	2.0	.5	1.5	2.0	.5	1.0	6.5	2.0	3.5
23	1.0	.5	1.0	2.5	1.0	2.0	2.0	.5	1.5	7.5	2.0	4.5
24	1.5	1.0	1.0	2.5	1.5	2.0	3.0	1.0	2.0	7.0	3.0	4.5
25	1.0	.5	.5	3.0	1.5	2.0	3.5	1.0	2.0	9.0	3.0	5.5
26	1.0	.5	.5	3.0	1.5	2.0	2.5	1.0	1.5	8.0	3.5	5.5
27	1.5	1.0	1.5	3.0	1.0	1.5	3.0	.5	1.5	9.0	3.5	5.5
28	1.5	1.0	1.5	2.5	.5	1.5	.5	.0	.5	9.5	4.0	6.0
29	---	---	---	2.5	1.0	1.5	1.5	.5	1.0	7.5	4.0	5.5
30	---	---	---	2.0	.0	1.0	3.5	1.0	2.0	9.0	4.0	6.0
31	---	---	---	.5	.0	.5	---	---	---	9.5	4.0	6.5
MONTH	1.5	.5	.8	3.0	.0	1.4	3.5	.0	1.1	9.5	.0	3.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.5	5.0	6.5	15.0	10.5	12.5	13.0	9.5	11.0	9.0	6.5	8.0
2	6.0	4.0	5.0	14.5	10.5	12.0	12.5	8.5	10.5	9.5	7.0	8.0
3	5.0	3.0	4.0	13.0	10.0	11.5	12.5	9.0	11.0	9.5	6.5	8.0
4	5.5	3.5	4.5	13.0	9.5	11.0	12.0	9.5	11.0	10.0	7.0	8.5
5	9.5	4.5	6.5	14.0	9.5	11.5	12.0	9.5	10.5	10.5	7.5	9.0
6	9.0	4.5	6.5	14.0	9.5	12.0	11.0	9.0	10.0	11.0	8.0	9.5
7	9.0	3.5	6.0	14.0	10.5	12.5	11.0	8.0	9.5	11.0	8.0	9.5
8	9.0	3.5	6.0	14.0	10.0	12.0	11.0	9.0	10.0	11.5	8.5	10.0
9	9.0	3.5	6.0	14.5	9.5	12.0	11.0	9.5	10.5	10.5	8.5	9.5
10	10.0	4.0	7.0	14.5	10.5	12.5	10.5	6.0	9.5	10.5	8.5	9.5
11	11.0	5.0	8.0	14.5	11.0	13.0	11.0	7.5	9.0	11.0	8.5	9.5
12	10.5	5.5	8.0	15.0	11.5	13.0	12.0	9.0	10.5	10.5	8.0	9.5
13	12.0	6.0	9.0	15.0	12.5	13.5	12.0	9.5	11.0	11.0	8.5	9.5
14	12.0	6.5	9.0	14.5	11.5	13.0	11.0	8.5	10.0	11.0	8.0	9.5
15	11.0	7.0	9.0	14.0	11.0	12.5	11.0	7.5	9.5	10.0	7.5	9.0
16	12.5	7.0	9.5	13.5	10.5	12.0	12.0	9.0	10.5	10.5	7.5	9.0
17	13.0	7.5	10.0	13.0	10.0	11.5	12.0	8.5	10.5	10.5	8.0	9.5
18	12.5	7.5	10.0	12.5	8.5	11.0	12.5	10.0	11.0	10.5	9.5	10.0
19	13.0	8.0	10.5	12.5	9.0	11.0	12.5	9.0	10.5	10.5	8.5	9.5
20	13.5	8.0	10.5	12.5	9.5	10.5	12.5	9.0	10.5	10.0	8.5	9.5
21	13.0	9.0	11.0	12.5	8.5	10.5	12.5	9.0	10.5	10.0	8.0	9.0
22	14.5	9.5	11.5	13.0	9.0	11.0	12.0	10.0	11.0	10.5	8.5	9.5
23	14.5	9.5	12.0	12.5	9.0	11.0	12.5	10.0	11.0	10.5	8.5	9.5
24	13.5	10.0	11.5	12.5	9.0	11.0	12.5	9.5	11.0	10.5	8.0	9.0
25	13.0	8.5	10.5	12.5	9.0	11.0	12.5	10.0	11.0	10.5	8.0	9.0
26	13.0	7.5	10.0	13.0	10.0	11.5	12.0	11.0	11.5	10.0	8.0	9.0
27	13.0	8.0	10.5	13.0	9.5	11.5	12.5	10.5	11.5	9.5	7.5	8.5
28	14.0	9.0	11.5	13.5	9.5	11.5	12.5	9.5	11.0	8.0	6.0	7.5
29	14.0	9.5	12.0	13.0	10.0	11.5	12.5	9.5	11.0	9.0	6.0	7.5
30	15.0	10.0	12.0	12.5	9.0	11.0	11.0	8.5	10.0	9.0	6.5	8.0
31	---	---	---	13.0	9.5	11.5	10.0	7.5	8.5	---	---	---
MONTH	15.0	3.0	8.8	15.0	8.5	11.7	13.0	6.0	10.5	11.5	6.0	9.0
YEAR	15.0	.0	4.5									

PYRAMID AND WINNEMUCCA LAKES BASIN

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°50'55", long 120°01'34", in NE 1/4 NE 1/4 sec.31, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 500 ft downstream of U.S. Highway 50 bridge, 1 mi southwest of Meyers, and 7.5 mi upstream of Lake Tahoe.

DRAINAGE AREA.--39.3 mi² revised.

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. June 1990 to September 5, 1997 at present site, datum 3.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,120 ft³/s, January 2, 1997, gage height, 8.95 ft; minimum daily, 1.2 ft³/s, December 22, 1990.

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)
April 20	2200	218	5.80	May 26	2130	*1230	*8.09
May 12	2145	518	6.73	June 14	2115	610	6.95

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	24	58	25	26	39	52	127	556	236	33	13
2	30	21	46	24	26	39	50	152	491	227	32	13
3	19	18	51	24	26	e39	49	131	375	207	31	12
4	15	17	47	24	26	e39	48	118	285	176	31	12
5	14	15	44	24	26	39	48	123	264	151	31	12
6	13	15	43	24	e26	37	49	174	329	134	31	11
7	13	19	39	24	e26	35	47	251	333	121	30	11
8	13	18	37	23	e26	33	e47	254	299	113	29	11
9	13	16	33	23	e26	e35	e46	235	301	100	30	11
10	12	16	32	23	e27	37	45	226	317	94	40	11
11	12	17	31	23	e28	36	44	287	373	93	40	13
12	12	16	30	23	e32	35	43	376	388	92	29	11
13	12	16	30	23	35	36	46	361	415	91	25	11
14	12	17	29	23	32	37	55	303	454	90	22	10
15	12	17	28	26	30	36	62	260	473	82	20	10
16	12	17	28	35	33	36	72	253	445	73	19	10
17	12	19	28	37	e40	38	93	302	439	63	18	10
18	12	18	28	51	44	42	121	347	423	57	17	10
19	12	17	28	64	39	44	158	367	400	55	17	11
20	12	17	28	67	38	44	178	394	383	53	16	11
21	11	19	e28	56	e45	42	183	424	406	51	16	11
22	11	21	e28	47	47	42	152	510	439	49	15	10
23	11	28	e28	e47	43	44	120	606	460	45	16	10
24	12	35	e28	48	40	45	110	671	445	41	15	10
25	13	27	e27	40	39	49	135	802	354	40	14	9.9
26	14	24	27	36	35	58	182	921	274	39	14	9.7
27	16	23	27	33	33	61	179	793	209	38	17	9.5
28	27	22	26	32	33	59	152	770	210	36	15	9.3
29	37	28	25	30	---	57	119	666	232	35	13	9.3
30	29	56	25	29	---	55	111	558	238	34	13	9.2
31	23	---	25	28	---	e53	---	579	---	33	13	---
TOTAL	497	633	1012	1036	927	1321	2796	12341	11010	2749	702	321.9
MEAN	16.0	21.1	32.6	33.4	33.1	42.6	93.2	398	367	88.7	22.6	10.7
MAX	37	56	58	67	47	61	183	921	556	236	40	13
MIN	11	15	25	23	26	33	43	118	209	33	13	9.2
AC-FT	986	1260	2010	2050	1840	2620	5550	24480	21840	5450	1390	638

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

MEAN	9.45	18.1	24.2	59.2	42.2	70.0	119	301	272	106	21.4	12.5
MAX	22.6	78.5	96.4	328	125	132	206	569	709	452	78.6	37.5
(WY)	1996	1997	1997	1997	1996	1995	1997	1993	1995	1995	1995	1995
MIN	3.39	3.33	3.15	4.37	6.69	28.2	47.2	85.0	20.4	4.81	2.28	2.50
(WY)	1995	1991	1991	1991	1991	1994	1991	1992	1992	1994	1994	1994

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

ANNUAL TOTAL	40876.3	35345.9	
ANNUAL MEAN	112	96.8	91.0
HIGHEST ANNUAL MEAN			169
LOWEST ANNUAL MEAN			26.1
HIGHEST DAILY MEAN	700	921	2000
LOWEST DAILY MEAN	8.3	9.2	1.2
ANNUAL SEVEN-DAY MINIMUM	12	9.6	1.8
INSTANTANEOUS PEAK FLOW		1230	5120
INSTANTANEOUS PEAK STAGE		8.09	8.95
ANNUAL RUNOFF (AC-FT)	81080	70110	65960
10 PERCENT EXCEEDS	355	322	261
50 PERCENT EXCEEDS	35	35	27
90 PERCENT EXCEEDS	15	12	4.7

e Estimated

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.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.5°C, August 7, 30, 31, 1998; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 17.0°C, July 13, 14, 26; minimum, freezing point, many days from November to May.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								
29...	1225	32	--	--	--	36	6.0	6.5
NOV								
30...	1130	50	--	--	--	49	4.5	2.5
DEC								
22...	1320	20	--	--	--	57	-7.0	.0
JAN								
22...	1220	50	--	--	--	46	2.5	2.0
FEB								
27...	1100	32	--	--	--	70	6.0	2.5
MAR								
24...	1325	42	--	--	--	79	8.0	4.0
APR								
16...	1055	62	--	--	--	66	9.0	2.0
21...	1525	171	--	--	--	44	9.0	5.0
MAY								
07...	1140	204	--	--	--	38	16.0	3.5
10...	1235	190	--	--	--	37	13.0	4.0
13...	1625	295	--	--	--	33	7.5	5.0
20...	1520	354	--	--	--	29	16.0	5.5
26...	1315	688	--	--	--	22	23.5	5.5
JUN								
03...	1510	332	598	98	10.2	26	4.5	3.5
09...	1355	261	--	--	--	27	14.5	6.0
14...	1140	386	--	--	--	23	24.0	6.0
21...	1630	344	--	--	--	22	21.5	11.0
JUL								
07...	1245	124	--	--	--	30	23.0	13.0
AUG								
19...	1325	19	--	--	--	65	23.0	14.5
SEP								
21...	1215	12	--	--	--	85	20.5	11.5

PYRAMID AND WINNEMUCCA LAKES BASIN

103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
29...	.003	.09	.014	.002	.011	96	.17	2
NOV								
30...	.002	.12	.020	.003	.015	271	.54	4
DEC								
22...	<.001	.10	.019	.003	.011	195	.11	2
JAN								
22...	.003	.06	.027	.002	.011	124	.14	1
FEB								
27...	.002	.09	.038	.004	.009	154	.17	2
MAR								
24...	.002	.09	.023	.002	.009	180	.11	1
APR								
16...	<.001	.08	.030	.005	.012	204	.33	2
21...	.002	.14	.026	.002	.019	274	3.2	7
MAY								
07...	.015	.14	.009	.001	.032	375	9.4	17
10...	.001	.09	.023	.002	.017	212	3.1	6
13...	<.001	.13	.016	.002	.029	387	13	16
20...	<.001	.11	.003	.002	.017	191	11	12
26...	.003	.28	.019	.003	.058	826	115	62
JUN								
03...	<.001	.06	.010	.003	.023	311	16	18
09...	.004	.05	.011	.003	.019	138	7.0	10
14...	.001	.10	.006	.005	.020	163	17	16
21...	<.001	.06	.007	.003	.015	218	5.6	6
JUL								
07...	.003	.06	.008	.006	.022	98	1.3	4
AUG								
19...	.002	.07	.011	.006	.023	148	.10	2
SEP								
21...	.002	.07	.009	.005	.024	171	.03	1

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.0	8.0	10.0	6.5	4.5	5.5	1.0	.0	.5	1.0	.0	.5
2	11.5	9.5	10.5	5.0	3.0	4.0	2.0	.5	1.5	1.0	.0	.5
3	10.0	7.5	8.5	5.5	3.5	4.5	2.0	.0	1.0	.5	.0	.5
4	9.0	5.5	7.5	5.5	3.0	4.0	.0	.0	.0	1.0	.0	.5
5	9.0	5.0	7.0	4.5	3.0	3.5	.0	.0	.0	1.0	.0	.5
6	9.5	5.5	7.5	3.5	1.0	2.0	.0	.0	.0	1.5	.0	1.0
7	9.5	5.5	7.5	2.5	.5	1.5	.5	.0	.0	2.0	.5	1.5
8	10.0	6.0	8.0	3.0	1.5	2.0	.5	.0	.5	1.0	.0	.5
9	9.5	5.5	7.5	3.0	1.0	2.0	.5	.0	.0	1.0	.0	.5
10	8.5	4.5	6.5	2.5	1.5	2.0	.5	.0	.5	1.0	.0	.5
11	9.0	4.5	6.5	3.0	1.0	2.0	1.0	.5	.5	2.5	.0	1.0
12	8.5	5.0	7.0	3.0	.5	1.5	1.5	.5	1.0	2.0	.5	1.5
13	9.5	6.0	7.5	3.5	1.0	2.0	2.0	.5	1.0	2.5	1.0	1.5
14	9.0	5.5	7.5	4.0	1.5	2.5	1.5	.5	1.0	3.0	1.0	2.0
15	8.5	5.5	7.0	4.0	2.0	3.0	1.5	.5	1.0	3.0	1.5	2.5
16	7.5	4.5	6.0	4.0	1.5	3.0	2.0	.5	1.5	2.0	1.0	1.5
17	7.0	3.5	5.0	3.0	1.0	2.0	2.0	.5	1.0	2.5	1.0	2.0
18	7.5	3.5	5.5	2.5	.5	1.5	1.5	.0	1.0	2.0	.0	1.0
19	7.5	3.5	5.5	2.0	.5	1.0	1.0	.0	.5	1.0	.0	.5
20	7.5	4.0	6.0	2.5	.5	1.5	.0	.0	.0	1.0	.0	.5
21	7.5	4.0	6.0	4.0	2.0	3.0	.0	.0	.0	1.0	.0	.5
22	8.0	4.5	6.0	3.0	.5	2.0	.0	.0	.0	2.0	.5	1.5
23	8.0	4.5	6.0	3.0	1.0	2.5	.0	.0	.0	2.0	.0	.5
24	7.0	4.5	6.0	2.5	1.0	2.0	.5	.0	.0	.5	.0	.0
25	5.5	4.0	5.0	3.0	1.5	2.0	.5	.0	.5	1.0	.0	.5
26	7.0	4.0	5.5	3.0	1.5	2.0	.5	.5	.5	1.5	.0	.5
27	7.0	4.0	5.5	3.0	2.0	2.5	1.0	.5	.5	.5	.0	.5
28	7.0	5.5	6.0	2.5	1.5	2.0	1.0	.5	.5	.5	.0	.5
29	7.0	5.0	6.0	2.0	.0	1.0	1.0	.0	.5	1.0	.0	.5
30	5.5	4.0	4.5	2.5	.0	1.5	1.5	.0	.5	1.0	.0	.5
31	5.5	3.0	4.5	---	---	---	2.0	1.0	1.5	1.0	.5	.5
MONTH	12.0	3.0	6.6	6.5	.0	2.4	2.0	.0	.5	3.0	.0	.9

PYRAMID AND WINNEMUCCA LAKES BASIN
103366092 UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	.5	4.5	2.0	3.0	2.5	.0	1.0	5.5	1.5	3.5
2	2.0	.0	1.0	4.0	1.0	2.5	4.0	.5	2.0	3.5	1.5	2.0
3	2.5	.5	1.5	3.0	1.5	2.5	2.0	.0	.5	2.0	.0	1.0
4	2.5	1.0	2.0	3.5	1.0	2.0	4.5	.0	1.5	5.5	.5	2.5
5	2.0	1.0	1.5	2.5	.5	1.5	2.0	.0	.5	6.5	1.0	3.5
6	1.5	.0	.5	3.5	1.5	2.5	2.0	.0	.5	6.5	1.0	3.0
7	.5	.0	.0	3.5	1.0	2.5	2.0	.5	1.0	5.5	.5	2.5
8	.5	.0	.5	2.0	1.0	1.5	1.0	.0	.0	5.5	.5	2.5
9	.0	.0	.0	1.0	.0	.5	1.0	.0	.0	5.5	1.0	3.0
10	.0	.0	.0	2.5	.0	1.0	1.5	.0	.5	5.0	1.5	3.0
11	.5	.0	.0	3.5	1.0	2.0	3.5	1.0	2.0	7.0	2.0	4.0
12	.5	.0	.5	4.0	.5	2.0	5.0	.5	2.5	6.0	2.0	3.5
13	2.0	.5	1.0	5.0	1.0	3.0	6.0	.5	3.0	5.5	1.5	3.0
14	2.0	.5	1.5	5.0	2.0	3.0	5.5	.5	3.0	5.5	1.5	3.0
15	2.5	.0	1.5	4.5	1.5	3.0	5.5	.5	3.0	5.5	1.0	3.0
16	2.0	1.0	1.5	5.5	1.5	3.5	5.5	.5	2.5	6.5	1.5	3.5
17	2.5	.5	1.5	5.5	1.5	3.5	5.5	1.0	3.0	7.5	1.5	4.0
18	2.0	.0	1.0	5.0	2.0	3.5	5.5	.5	2.5	5.5	2.0	3.5
19	2.0	.0	1.0	4.5	2.0	3.5	5.0	1.0	2.5	6.5	2.0	3.5
20	1.5	.0	.5	3.5	2.0	3.0	5.0	1.0	3.0	6.0	2.0	3.5
21	.5	.0	.0	4.0	1.5	3.0	5.0	1.0	2.5	7.0	2.0	4.0
22	2.0	.0	1.0	5.0	1.0	3.0	3.5	1.5	2.5	7.0	2.0	4.0
23	2.5	1.0	1.5	6.0	2.0	3.5	3.5	1.5	2.0	6.5	2.0	4.0
24	3.0	1.0	2.0	5.0	2.0	3.5	5.5	1.5	3.0	5.5	2.5	3.5
25	2.0	.0	1.0	6.5	2.5	4.0	6.5	1.5	3.5	7.0	2.5	4.5
26	3.0	.0	1.5	5.5	2.5	4.0	3.5	1.5	2.5	6.0	2.5	4.0
27	4.5	2.0	3.0	5.0	1.5	3.0	5.5	1.5	3.0	7.0	2.5	4.5
28	3.5	1.5	2.5	5.0	1.0	2.5	2.5	.5	1.5	7.0	2.5	4.5
29	---	---	---	4.0	1.0	2.5	3.0	.5	1.5	5.5	2.5	4.0
30	---	---	---	4.0	.5	2.5	6.0	1.5	3.5	7.5	3.0	5.0
31	---	---	---	1.5	.0	.5	---	---	---	7.5	3.0	5.0
MONTH	4.5	.0	1.1	6.5	.0	2.6	6.5	.0	2.0	7.5	.0	3.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	6.5	3.5	4.5	15.0	11.0	13.0	---	---	---	12.5	8.0	10.5
2	5.0	2.5	4.0	15.0	11.0	13.0	---	---	---	11.0	8.0	10.0
3	3.5	2.0	3.0	14.0	10.0	12.0	---	---	---	13.5	7.5	10.5
4	5.0	2.5	3.5	13.0	9.5	11.5	---	---	---	14.0	8.0	11.0
5	9.0	4.0	6.0	14.0	9.0	11.5	---	---	---	15.0	8.5	11.5
6	8.0	4.0	6.0	14.5	10.0	12.5	---	---	---	15.5	9.0	12.0
7	7.5	2.5	5.0	15.0	10.5	13.0	---	---	---	15.5	9.0	12.0
8	7.5	2.5	5.0	15.0	10.5	12.5	---	---	---	15.5	9.5	12.5
9	7.5	2.5	5.0	15.0	10.0	12.5	---	---	---	13.0	10.0	12.0
10	8.5	3.0	5.5	16.0	11.0	13.5	---	---	---	13.5	9.0	11.5
11	9.0	4.0	6.0	16.0	12.0	14.0	13.5	6.5	9.5	14.5	9.5	12.0
12	9.0	4.0	6.5	16.5	12.5	14.5	15.0	9.0	12.0	14.5	9.5	12.0
13	10.5	4.5	7.0	17.0	13.5	15.0	---	---	---	15.0	9.5	12.0
14	10.5	4.5	7.0	17.0	13.0	14.5	---	---	---	15.0	9.0	12.0
15	10.0	5.0	7.0	16.5	12.0	14.5	---	---	---	14.5	9.0	11.5
16	11.0	5.0	7.5	16.0	11.5	13.5	---	---	---	15.0	9.0	12.0
17	11.5	5.5	8.0	15.5	10.5	13.0	---	---	---	14.0	9.0	11.5
18	11.0	5.5	8.0	15.0	9.5	12.5	---	---	---	13.0	11.0	12.0
19	11.5	6.5	8.5	15.5	10.0	12.5	---	---	---	14.5	9.0	11.5
20	12.0	6.5	9.0	15.0	10.0	12.5	16.5	10.5	13.5	14.0	9.5	11.5
21	11.5	7.5	9.5	15.0	9.5	12.0	16.5	10.5	13.5	14.0	9.0	11.5
22	12.5	8.0	10.5	16.0	10.0	13.0	15.5	11.0	13.0	13.0	9.5	11.5
23	13.5	9.0	11.0	15.5	10.5	13.0	16.0	10.5	13.0	14.0	9.5	11.5
24	13.0	9.5	11.0	15.5	10.0	12.5	16.5	10.5	13.5	14.5	9.0	11.5
25	12.0	8.5	10.0	16.0	10.0	13.0	16.5	11.0	13.5	15.0	9.5	12.0
26	12.0	7.5	10.0	17.0	11.0	13.5	14.0	12.0	13.0	15.0	9.5	12.0
27	12.5	7.5	10.0	16.5	11.0	---	15.5	11.0	13.0	14.0	9.0	11.5
28	13.5	8.5	11.0	---	---	---	16.5	11.0	13.5	13.0	8.0	10.0
29	14.0	9.5	12.0	---	---	---	16.5	11.0	13.5	12.5	7.5	10.0
30	15.0	10.0	12.5	---	---	---	14.0	11.0	12.5	13.0	8.0	10.0
31	---	---	---	---	---	---	14.5	8.5	11.0	---	---	---
MONTH	15.0	2.0	7.7	---	---	---	---	---	---	15.5	7.5	11.4

PYRAMID AND WINNEMUCCA LAKES BASIN
10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°55'21", long 119°59'26", in NW¹/₄ SE¹/₄ sec.4, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 200 ft downstream from U.S. Highway 50 Bridge, 1.0 mi northeast of South Lake Tahoe Post Office, and 1.4 mi upstream from Lake Tahoe.

DRAINAGE AREA.--54.0 mi² revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to September 1974, October 1976 to June 1977, October 1977 to June 1978, March 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,229.04 ft above sea level. Prior to April 26, 1984, at datum 2.00 ft higher. Prior to October 19, 1993, at site 200 ft upstream at same datum.

REMARKS.--Records good except estimated daily discharges, which are 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 (station 10336608), to South Fork American River basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,480 ft³/s, January 2, 1997, gage height, 9.95 ft; minimum daily, 0.70 ft³/s, August 22 to September 5, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 300 ft³/s, or maximum:

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
May 27	0600	1,020	6.44	No other peaks above base.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	26	e60	e34	e45	e82	96	186	654	287	31	14
2	45	25	e66	e33	e45	e93	87	237	619	278	30	14
3	31	21	e62	e34	44	e100	84	217	500	258	29	14
4	22	20	e54	e34	45	e102	89	188	403	230	e28	13
5	21	19	e54	e34	44	e96	80	181	351	203	e29	14
6	20	18	e52	e35	40	e90	92	228	406	184	e30	13
7	17	24	e48	e34	e53	e83	77	328	423	162	31	13
8	18	26	e45	e35	e62	e82	71	347	378	151	29	13
9	19	22	e44	e38	e74	e76	89	331	382	136	28	14
10	18	22	e42	e36	e75	e74	74	309	385	125	34	13
11	17	24	e41	e32	e64	70	72	357	432	122	57	14
12	17	22	e39	e29	e61	67	74	449	471	123	40	14
13	15	23	e38	26	e57	68	86	469	471	118	33	13
14	16	24	e37	27	e57	74	106	400	518	120	28	13
15	17	26	36	e33	e57	73	121	354	544	110	26	11
16	18	26	34	e36	e55	76	134	341	516	99	24	11
17	18	e26	33	e36	e61	86	168	375	507	84	23	11
18	18	e26	34	e43	e63	98	213	454	493	73	22	11
19	22	e26	e34	e46	e63	104	280	460	472	68	21	12
20	21	26	e34	e48	e61	97	300	506	446	64	20	12
21	18	28	e34	e47	e59	88	304	512	461	61	19	12
22	18	e35	e34	e47	e61	90	257	588	487	54	19	11
23	18	e41	e34	e47	e60	96	196	674	516	53	19	11
24	20	e43	e34	e46	e60	102	174	771	507	47	18	11
25	26	44	e35	e46	e59	112	199	819	440	45	18	11
26	24	38	e35	e46	e59	133	276	893	354	43	18	11
27	26	35	e35	e46	e63	137	281	903	277	39	20	10
28	29	35	e35	e46	e71	123	242	863	266	36	19	9.4
29	47	e45	e35	e45	---	116	191	825	285	34	18	9.4
30	36	e55	e35	e45	---	108	171	644	291	33	17	10
31	26	---	e35	e45	---	106	---	673	---	32	15	---
TOTAL	711	871	1268	1209	1618	2902	4684	14882	13255	3472	793	362.8
MEAN	22.9	29.0	40.9	39.0	57.8	93.6	156	480	442	112	25.6	12.1
MAX	47	55	66	48	75	137	304	903	654	287	57	14
MIN	15	18	33	26	40	67	71	181	266	32	15	9.4
AC-FT	1410	1730	2520	2400	3210	5760	9290	29520	26290	6890	1570	720

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1999, BY WATER YEAR (WY)

MEAN	15.8	41.8	52.4	70.0	71.2	112	167	312	272	96.0	22.4	13.8
MAX	72.1	225	218	484	307	305	300	567	795	448	102	55.3
(WY)	1983	1984	1982	1997	1986	1986	1982	1982	1983	1995	1983	1983
MIN	2.60	7.36	8.07	8.00	10.5	21.2	64.0	55.3	23.5	4.65	1.15	1.39
(WY)	1989	1991	1991	1991	1991	1977	1977	1977	1992	1994	1994	1988

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1972 - 1999
ANNUAL TOTAL	53147	46027.8	
ANNUAL MEAN	146	126	107
HIGHEST ANNUAL MEAN			203
LOWEST ANNUAL MEAN			29.2
HIGHEST DAILY MEAN	1260	Mar 24	903
LOWEST DAILY MEAN	15	Oct 13	9.4
ANNUAL SEVEN-DAY MINIMUM	17	Jan 1	10
INSTANTANEOUS PEAK FLOW			1020
INSTANTANEOUS PEAK STAGE			6.44
ANNUAL RUNOFF (AC-FT)	105400	91300	77180
10 PERCENT EXCEEDS	407	404	295
50 PERCENT EXCEEDS	50	46	41
90 PERCENT EXCEEDS	19	17	8.0

e Estimated.

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, September 1997 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1992.

INSTRUMENTATION.--Water temperature recorder September 1997 to current year, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in record due to loss of hydrologic communication with stream and/or instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.0°C, August 18, 1982; minimum, freezing point on many days.

SEDIMENT CONCENTRATION: Maximum daily mean, 416 mg/L, March 4, 1991; minimum daily mean, 0 mg/L, several days during most years.

SEDIMENT LOAD: Maximum daily, 781 tons, March 8, 1986; minimum daily, 0 tons, several days during most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 20.5°C, August 29; minimum, freezing point, many days November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT									
28...	0950	24	607	102	10.0	7.4	80	9.5	6.2
NOV									
30...	1030	55	--	--	--	--	59	5.5	2.0
DEC									
22...	1130	34	--	--	--	--	70	-7.0	.0
JAN									
22...	1110	47	--	--	--	--	63	3.5	1.0
FEB									
26...	1630	59	--	--	--	--	91	5.0	2.0
MAR									
18...	1620	98	--	--	--	--	89	12.5	6.5
24...	1120	95	--	--	--	--	82	9.5	4.5
APR									
16...	0945	126	--	--	--	--	75	5.0	2.0
21...	1320	276	--	--	--	--	49	12.0	3.5
28...	1405	238	--	--	--	--	51	1.0	2.5
MAY									
07...	0910	330	--	--	--	--	40	10.0	2.5
10...	1700	284	--	--	--	--	53	13.5	7.5
13...	1440	418	--	--	--	--	34	10.5	6.0
20...	1400	470	--	--	--	--	30	15.5	6.0
26...	1100	926	--	--	--	--	22	16.5	6.0
JUN									
03...	1240	496	600	98	10.2	--	26	6.5	3.5
09...	0950	388	--	--	--	--	27	10.0	4.0
14...	0805	557	--	--	--	--	22	12.5	5.0
21...	1130	443	--	--	--	--	24	19.0	9.0
JUL									
07...	1100	166	--	--	--	--	32	22.5	13.0
AUG									
19...	1050	22	--	--	--	--	73	18.5	15.5
SEP									
21...	1000	13	--	--	--	--	91	14.5	12.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (0062-5)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
28...	.003	.11	.015	.004	.015	263	.06	1
NOV								
30...	.001	.32	.022	.009	.053	759	3.1	21
DEC								
22...	<.001	.14	.032	.003	.021	403	.28	3
JAN								
22...	.008	.25	.042	.005	.068	1030	3.8	30
FEB								
26...	.010	.18	.040	.006	.029	583	1.9	12
MAR								
18...	.001	.15	.021	.007	.028	666	2.9	11
24...	.003	.17	.023	.006	.023	466	1.5	6
APR								
16...	<.001	.17	.029	.004	.023	425	2.4	7
21...	.003	.19	.028	.003	.039	823	23	31
28...	.002	.10	.031	.002	.016	224	7.7	12
MAY								
07...	<.001	.22	.014	.003	.039	542	41	46
10...	.002	.12	.022	.003	.027	395	11	14
13...	<.001	.59	.016	.003	.048	1060	46	41
20...	.001	.20	.016	.003	.026	347	39	31
26...	.004	.24	.016	.010	.066	1230	110	44
JUN								
03...	<.001	.13	.006	.001	.032	514	25	19
09...	.002	.08	.013	.002	.021	225	21	20
14...	.002	.10	.004	.005	.055	507	48	32
21...	.004	.08	.007	.005	.027	492	105	88
JUL								
07...	.001	.13	.013	.006	.028	247	2.7	6
AUG								
19...	<.001	.08	.014	.005	.026	237	.24	4
SEP								
21...	.002	.06	.019	.004	.027	314	.14	4

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	13.5	10.0	12.0	8.0	5.0	6.5	1.0	.0	.5	.5	.0	.0
2	13.0	8.5	11.0	6.0	3.0	4.5	3.5	.0	1.5	.5	.0	.0
3	11.5	8.5	10.0	6.5	4.0	5.0	2.5	.0	1.5	.5	.0	.0
4	11.5	7.0	9.0	6.5	3.5	5.0	.5	.0	.0	.5	.0	.0
5	11.5	7.0	9.0	5.5	3.5	4.5	.0	.0	.0	.5	.0	.0
6	11.0	7.0	9.0	4.0	1.5	3.0	.0	.0	.0	.5	.0	.0
7	11.5	7.0	9.0	2.5	1.0	1.5	.0	.0	.0	1.0	.0	.0
8	11.5	8.0	9.5	2.5	.5	1.5	.5	.0	.0	.5	.0	.0
9	10.5	7.5	8.5	3.5	1.0	2.0	.5	.0	.0	.5	.0	.0
10	10.0	6.5	8.0	3.5	1.5	2.5	.5	.0	.0	.5	.0	.0
11	10.0	6.5	8.0	5.0	1.5	3.0	.5	.0	.0	1.0	.0	.0
12	9.5	7.0	8.0	3.5	.5	2.0	1.0	.0	.0	1.5	.0	.5
13	10.0	6.5	8.0	4.0	1.0	2.5	1.0	.0	.5	2.0	.0	1.0
14	10.0	7.5	8.5	5.0	1.5	3.5	1.0	.0	.5	2.0	.5	1.5
15	10.0	7.5	8.0	5.0	2.0	3.5	1.5	.0	.5	4.0	2.0	3.0
16	8.5	6.0	7.0	5.0	2.0	3.5	2.0	.0	1.0	2.0	1.0	1.5
17	7.5	4.5	6.0	3.5	1.5	2.5	2.0	.0	1.0	3.5	1.0	2.0
18	8.0	5.0	6.0	2.5	.0	1.5	1.5	.0	1.0	2.0	.0	1.0
19	8.0	5.0	6.0	2.5	.0	1.0	1.0	.0	.0	.5	.0	.0
20	8.5	5.0	6.5	2.5	.0	1.5	.0	.0	.0	.5	.0	.0
21	8.5	5.0	7.0	4.5	2.0	3.0	.0	.0	.0	.0	.0	.0
22	9.0	5.5	7.0	3.0	1.0	2.5	.0	.0	.0	2.5	.0	1.0
23	9.0	5.0	7.0	3.5	2.0	3.0	.0	.0	.0	1.0	.0	.5
24	7.5	5.0	6.5	3.0	.0	1.5	.0	.0	.0	.0	.0	.0
25	5.0	4.0	4.5	4.0	.5	2.5	.0	.0	.0	.5	.0	.0
26	8.0	4.0	6.0	3.5	1.0	2.5	.5	.0	.0	1.0	.0	.5
27	8.0	5.0	6.5	3.0	2.0	2.5	.5	.0	.0	1.5	.0	.5
28	9.0	6.5	7.0	3.0	1.5	2.5	.5	.0	.0	.5	.0	.0
29	7.0	5.5	6.5	2.0	.5	1.0	.5	.0	.0	.5	.0	.0
30	6.5	3.5	5.0	3.0	.0	1.5	.5	.0	.0	1.0	.0	.0
31	6.0	2.5	4.5	---	---	---	.5	.0	.0	.5	.0	.0
MONTH	13.5	2.5	7.6	8.0	.0	2.8	3.5	.0	.3	4.0	.0	.4

PYRAMID AND WINNEMUCCA LAKES BASIN
10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.0	.0	.5	5.5	1.5	3.0	3.5	.0	1.5	8.5	3.5	6.0
2	1.5	.0	.5	5.0	.5	2.5	6.5	.5	3.5	6.5	3.0	4.5
3	3.0	.0	1.5	4.5	1.0	2.5	4.5	.0	1.5	4.0	1.0	3.0
4	4.0	1.0	2.5	4.0	.5	2.0	6.5	.0	2.5	8.5	1.0	4.5
5	3.5	.5	2.0	3.0	.0	1.5	3.5	.0	1.0	10.0	2.5	6.0
6	2.0	.0	.5	4.5	.5	2.5	3.0	.0	1.0	10.5	3.0	6.5
7	.5	.0	.0	5.0	.5	2.5	3.5	.5	1.5	9.0	2.5	5.5
8	.0	.0	.0	3.0	.5	1.5	2.0	.0	.5	8.5	1.5	5.0
9	.0	.0	.0	.5	.0	.0	3.5	.0	1.0	8.0	1.5	4.5
10	.0	.0	.0	2.0	.0	1.0	3.5	.0	1.5	7.5	2.0	4.5
11	---	---	---	5.5	.5	2.5	7.5	1.0	3.5	9.5	2.5	6.0
12	---	---	---	5.5	.0	2.5	8.5	1.0	4.5	8.5	2.5	5.0
13	---	---	---	6.5	1.0	3.5	9.0	2.0	5.5	8.0	1.5	4.5
14	---	---	---	6.0	1.0	3.5	9.0	2.0	5.5	7.5	1.5	4.0
15	---	---	---	6.0	1.5	3.5	8.5	1.5	5.0	8.0	1.5	4.5
16	---	---	---	7.0	1.0	4.0	8.0	2.0	5.0	8.5	2.0	5.0
17	---	---	---	7.0	1.0	4.0	9.0	2.5	5.5	9.0	2.0	5.5
18	1.5	.0	.5	6.5	1.5	4.0	8.5	1.5	5.0	8.0	2.0	5.0
19	1.5	.0	.5	5.0	2.0	3.5	8.5	2.0	5.0	8.5	2.0	5.0
20	1.0	.0	.5	4.0	2.0	3.0	9.0	1.5	5.0	8.0	2.5	5.0
21	.0	.0	.0	6.0	1.0	3.0	8.5	1.5	4.5	9.0	2.5	5.5
22	2.5	.0	.5	6.5	.5	3.5	5.5	2.0	3.5	9.0	2.5	5.5
23	4.5	.0	2.0	7.0	1.5	4.5	4.0	1.5	3.0	9.0	3.0	5.5
24	4.5	.5	2.0	6.0	2.0	4.0	9.0	2.0	5.0	7.5	3.5	5.5
25	2.0	.0	.5	7.5	2.5	4.5	10.0	2.5	6.0	10.0	3.5	6.5
26	2.0	.0	1.0	8.0	2.5	5.0	7.0	3.0	5.0	10.0	4.0	7.0
27	6.0	1.5	3.5	7.0	1.5	4.0	8.0	2.5	5.0	10.5	4.0	7.0
28	5.0	1.0	3.0	6.5	1.0	3.5	4.5	1.0	2.5	10.5	4.0	7.0
29	---	---	---	5.5	1.5	3.5	4.0	1.0	2.5	7.5	3.5	5.5
30	---	---	---	5.5	1.0	3.0	9.0	2.5	5.5	9.5	3.5	6.0
31	---	---	---	4.0	.0	1.5	---	---	---	9.0	4.0	6.5
MONTH	---	---	---	8.0	.0	3.0	10.0	.0	3.6	10.5	1.0	5.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	7.5	4.0	6.0	17.0	11.5	14.0	19.5	15.0	17.5	16.0	11.5	13.0
2	6.5	4.0	5.0	17.0	12.0	14.0	18.5	14.0	17.0	16.5	11.5	13.0
3	4.5	2.5	3.5	16.0	10.5	13.0	19.0	14.5	17.0	16.5	11.0	13.0
4	5.5	3.0	4.0	15.5	10.0	12.5	18.5	15.0	16.5	17.5	11.5	14.0
5	10.5	4.5	7.0	16.5	10.0	13.0	18.0	13.5	16.0	19.0	12.5	15.0
6	10.0	5.0	7.5	17.0	10.5	13.5	17.5	14.0	15.5	19.5	13.0	15.5
7	9.0	3.0	6.0	17.5	11.5	14.5	15.5	11.0	14.0	19.5	13.0	16.0
8	9.5	3.5	6.5	17.5	11.0	14.5	16.5	13.5	15.0	20.0	13.5	16.0
9	9.0	3.5	6.5	17.5	10.5	14.0	17.0	13.5	15.0	17.0	13.5	15.0
10	10.0	4.0	7.0	18.5	11.5	15.0	15.5	12.5	13.5	17.5	11.5	14.0
11	10.5	4.5	7.5	19.5	12.5	16.0	14.5	9.0	11.5	18.5	12.0	15.0
12	10.5	4.5	7.5	20.0	13.0	16.5	17.0	11.5	14.5	18.5	12.0	15.0
13	11.5	5.5	8.5	19.0	14.5	16.5	17.5	13.0	15.5	18.5	12.5	15.0
14	12.0	5.0	8.5	20.0	13.5	16.5	17.0	13.0	15.5	18.5	11.5	14.5
15	11.0	5.5	8.5	19.5	13.0	16.0	17.5	12.5	15.5	18.5	12.0	15.0
16	12.0	6.0	9.0	19.0	12.5	15.5	19.0	14.0	16.5	18.0	12.0	15.0
17	12.5	6.0	9.5	18.5	12.0	15.0	19.0	14.5	16.5	17.5	12.5	14.5
18	11.5	6.5	9.0	18.5	11.0	15.0	18.5	14.5	16.5	15.5	13.5	14.0
19	12.5	7.0	10.0	19.0	11.5	15.0	19.5	14.0	16.5	16.5	11.0	14.0
20	13.0	7.5	10.0	18.5	11.5	15.0	19.5	15.0	17.0	17.0	12.5	14.5
21	13.0	8.5	10.5	18.0	10.5	14.5	20.0	14.5	17.0	17.0	11.0	14.0
22	14.0	8.5	11.5	19.0	11.5	15.5	19.0	15.0	17.0	15.5	12.5	14.0
23	14.5	9.5	12.0	18.0	12.5	15.5	18.0	14.5	16.5	17.5	12.0	14.5
24	14.5	10.0	12.0	18.0	12.5	15.5	19.5	14.0	16.5	17.5	11.5	14.5
25	13.5	8.5	11.0	18.5	13.0	16.0	20.0	15.5	17.5	18.5	12.0	15.0
26	13.5	8.0	11.0	19.5	14.0	17.0	18.0	15.5	17.0	18.5	12.5	15.0
27	14.0	8.5	11.5	19.0	14.5	17.0	18.5	14.0	16.0	17.5	12.0	14.5
28	15.5	9.5	12.5	20.0	14.0	17.0	19.5	14.0	16.5	16.0	10.5	13.0
29	16.0	10.5	13.0	19.5	15.5	17.5	20.5	15.5	17.5	16.0	10.0	12.5
30	16.5	11.0	13.5	18.5	14.0	17.0	18.0	13.5	16.0	16.0	10.5	13.0
31	---	---	---	19.0	14.5	17.0	17.0	11.5	13.5	---	---	---
MONTH	16.5	2.5	8.9	20.0	10.0	15.3	20.5	9.0	15.9	20.0	10.0	14.4

PYRAMID AND WINNEMUCCA LAKES BASIN

10336612 UPPER TRUCKEE RIVER AT MOUTH NEAR VENICE DRIVE, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°56'04", long 119°59'57", in NW 1/4 NW 1/4 sec.04, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 0.25 mi upstream of mouth, and 1.0 mi west of South Lake Tahoe, CA

DRAINAGE AREA.--56.6 mi².

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In September 1997, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor streamflows and water temperature within the Upper Truckee River-Trout Creek watershed. Records represent water temperature at probe within 0.5°C. Water temperature data for September 1997 were not published but are available from U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 21.5°C, August 30-31, 1998; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 20.5°C, August 1, 3, 21, 25, 29; minimum, freezing point, many days November to April.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	13.5	11.0	12.0	7.5	5.0	6.0	.5	.0	.0	.5	.0	.0
2	12.5	9.5	11.5	5.5	2.5	4.0	3.0	.0	1.0	.5	.0	.0
3	11.5	9.0	10.0	6.5	3.5	4.5	3.0	.0	1.5	.5	.0	.0
4	11.0	7.5	9.5	6.0	3.5	4.5	.5	.0	.0	1.0	.0	.0
5	11.0	7.5	9.5	5.0	3.0	4.0	.5	.0	.0	1.0	.0	.0
6	11.0	7.5	9.5	4.0	1.5	2.5	.0	.0	.0	.5	.0	.0
7	10.0	7.5	9.5	2.0	1.0	1.5	.5	.0	.0	.5	.0	.5
8	11.5	8.0	10.0	2.0	.0	1.0	.5	.0	.0	.5	.0	.5
9	10.5	7.0	9.0	3.0	.5	1.5	.5	.0	.0	1.5	.0	.5
10	9.5	6.0	8.0	3.0	1.5	2.0	1.0	.0	.0	1.0	.0	.5
11	10.0	6.0	8.0	4.5	1.0	2.5	.5	.0	.0	.5	.0	.0
12	9.5	6.0	8.0	3.0	.5	2.0	.5	.0	.0	1.0	.0	.5
13	10.0	6.0	8.0	3.5	1.0	2.0	.5	.0	.0	1.5	.0	.5
14	9.5	6.0	8.0	5.0	2.0	3.0	.5	.0	.0	1.5	.5	1.0
15	9.5	6.5	8.0	4.5	2.0	3.5	1.0	.0	.5	3.5	1.5	2.5
16	8.5	5.5	7.0	5.0	2.5	3.5	1.5	.5	1.0	3.0	1.0	1.5
17	7.5	3.5	5.5	3.5	1.5	2.5	2.0	.5	1.5	3.5	1.5	2.0
18	7.5	3.5	5.5	2.0	.0	1.0	1.5	.5	1.0	2.5	.0	1.0
19	8.0	3.5	5.5	2.0	.0	1.0	.5	.0	.0	.5	.0	.0
20	7.0	4.5	6.0	2.5	.0	1.5	.5	.0	.0	.0	.0	.0
21	7.5	4.5	6.5	4.5	1.5	2.5	.5	.0	.0	.0	.0	.0
22	8.0	5.5	7.0	3.0	1.0	2.5	.5	.0	.0	2.0	.0	.5
23	8.0	5.0	6.5	3.5	2.0	2.5	.5	.0	.0	1.5	.0	.5
24	7.5	5.0	6.0	2.0	.0	1.5	.5	.0	.0	.5	.0	.0
25	5.0	3.5	4.0	3.5	.5	2.0	.5	.0	.0	.0	.0	.0
26	7.0	3.5	5.0	3.0	1.0	2.5	.5	.0	.0	.5	.0	.0
27	7.0	5.0	6.0	3.0	2.0	2.5	.5	.0	.0	1.0	.0	.5
28	7.5	5.5	6.5	2.5	1.5	2.0	.5	.0	.0	.5	.0	.0
29	6.5	5.5	6.0	2.0	.5	1.0	.5	.0	.0	.5	.0	.0
30	5.5	3.0	4.5	2.5	.0	1.5	.5	.0	.0	.5	.0	.5
31	5.5	2.5	4.0	---	---	---	.5	.0	.0	.5	.0	.0
MONTH	13.5	2.5	7.4	7.5	.0	2.5	3.0	.0	.2	3.5	.0	.4

TEMPERATURE, WATER (DEG. C) WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1.0	.0	.5	5.5	2.0	3.5	3.5	.0	1.5	9.0	4.0	6.5
2	1.0	.0	.5	5.0	.5	2.5	6.5	.5	3.0	7.0	3.5	5.0
3	2.5	.0	1.5	4.5	1.5	2.5	5.0	.0	1.5	4.5	1.5	3.0
4	4.0	1.5	2.5	4.0	.5	2.0	6.0	.0	2.5	8.5	1.5	4.5
5	3.5	1.0	2.5	3.0	.0	1.5	4.5	.0	1.0	10.0	3.0	6.5
6	2.5	.0	1.0	4.5	.5	2.5	3.0	.0	1.0	10.5	3.5	7.0
7	.0	.0	.0	5.0	1.0	3.0	3.0	1.0	1.5	9.0	2.5	6.0
8	.0	.0	.0	3.0	.5	1.5	2.0	.0	.5	8.5	2.0	5.0
9	.0	.0	.0	1.0	.0	.5	3.0	.0	1.0	8.0	2.0	5.0
10	.0	.0	.0	2.0	.0	1.0	3.5	.0	1.5	7.5	2.0	5.0
11	.0	.0	.0	5.0	.5	2.5	7.0	1.5	4.0	9.5	3.0	6.0
12	.0	.0	.0	5.0	.0	2.5	8.5	1.5	5.0	8.5	2.5	5.5
13	.0	.0	.0	6.5	1.5	3.5	9.5	2.5	5.5	8.0	2.0	4.5
14	.0	.0	.0	6.0	1.5	4.0	9.0	3.0	6.0	7.5	1.5	4.5
15	.5	.0	.0	6.0	1.5	4.0	9.0	2.0	5.5	8.0	2.0	5.0
16	.0	.0	.0	7.0	1.5	4.5	8.5	2.5	5.5	8.5	2.0	5.0
17	1.0	.0	.5	7.0	1.5	4.5	9.0	3.0	6.0	9.0	2.5	5.5
18	1.5	.0	.5	7.0	2.0	4.5	8.5	2.0	5.5	8.0	2.5	5.0
19	1.0	.0	.5	5.0	2.5	4.0	8.5	2.5	5.5	9.0	2.5	5.5
20	1.0	.0	.5	4.0	2.0	3.0	9.0	2.0	5.5	8.0	2.5	5.5
21	.0	.0	.0	6.0	1.0	3.5	8.0	2.0	4.5	9.0	3.0	6.0
22	1.5	.0	.5	6.5	1.0	4.0	5.5	2.0	4.0	9.0	3.0	6.0
23	4.0	.5	2.0	7.0	2.0	4.5	4.0	2.0	3.0	9.0	3.0	6.0
24	4.5	.5	2.5	6.5	2.5	4.5	9.0	2.0	5.5	8.0	3.5	5.5
25	2.5	.0	.5	7.5	2.5	5.0	10.0	3.0	6.5	10.0	4.0	7.0
26	2.0	.0	1.0	8.5	3.0	5.5	8.0	3.0	5.5	10.0	5.5	7.5
27	5.5	1.5	3.5	7.0	2.0	4.5	8.0	2.5	5.0	10.5	5.0	7.5
28	5.0	1.5	3.0	6.5	1.0	4.0	5.0	1.5	3.0	10.0	4.5	7.0
29	---	---	---	5.5	1.5	3.5	4.0	1.5	3.0	7.5	4.0	6.0
30	---	---	---	6.0	1.5	3.5	9.0	2.5	5.5	10.0	3.5	6.5
31	---	---	---	4.0	.0	1.5	---	---	---	9.5	4.0	6.5
MONTH	5.5	.0	.8	8.5	.0	3.3	10.0	.0	3.8	10.5	1.5	5.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	7.5	4.0	6.0	17.0	12.0	14.5	20.5	16.5	18.0	16.5	11.5	14.0
2	6.5	4.0	5.5	17.0	12.0	14.5	19.5	16.0	17.5	16.5	11.5	14.0
3	5.0	2.5	3.5	15.5	11.0	13.5	20.5	16.0	18.0	16.5	11.0	14.0
4	5.5	3.5	4.5	15.5	10.0	12.5	18.5	15.5	17.0	17.5	11.0	14.5
5	10.5	4.5	7.5	16.5	10.0	13.0	19.0	14.5	16.5	18.0	12.0	15.0
6	10.0	5.0	7.5	17.0	11.0	14.0	17.0	15.0	16.0	18.5	13.0	16.0
7	9.0	3.5	6.5	18.0	11.5	14.5	16.5	13.0	14.5	18.5	13.5	16.5
8	9.5	3.5	6.5	17.5	11.5	14.5	17.0	14.5	15.5	19.0	14.5	16.5
9	9.0	4.0	6.5	17.5	11.0	14.5	17.5	14.5	15.5	19.0	14.5	16.0
10	10.0	4.5	7.0	18.5	12.0	15.5	15.0	13.0	14.0	16.0	13.0	14.5
11	10.5	5.0	7.5	19.5	13.0	16.5	13.5	10.0	12.0	18.0	13.0	15.5
12	10.5	5.0	7.5	20.0	13.5	17.0	17.0	12.5	14.5	17.5	13.5	16.0
13	11.5	5.5	8.5	19.0	14.5	17.0	18.0	14.5	16.0	17.5	14.0	15.5
14	12.0	5.5	8.5	20.0	14.0	17.0	18.0	14.5	16.0	17.0	13.0	15.5
15	11.5	6.0	8.5	19.5	13.5	16.5	18.5	14.0	16.0	17.0	13.5	15.5
16	12.0	6.0	9.0	19.0	13.0	16.0	20.0	15.0	17.0	17.0	14.0	15.5
17	12.5	6.5	9.5	18.5	12.5	15.5	20.0	15.5	17.5	17.0	14.0	15.5
18	11.5	6.5	9.5	18.5	12.0	15.5	19.0	15.5	17.0	16.5	14.5	15.0
19	12.5	7.5	10.0	18.5	12.5	15.5	20.0	14.5	17.0	16.0	12.5	14.0
20	13.0	8.0	10.5	18.0	12.5	15.5	20.0	15.0	17.5	16.5	13.0	15.0
21	13.0	8.5	11.0	18.0	12.0	15.0	20.5	15.0	17.5	16.0	12.5	14.5
22	14.0	9.0	11.5	19.0	13.0	16.0	19.5	15.5	17.5	16.0	13.0	14.5
23	14.5	10.0	12.5	17.5	14.0	16.5	19.0	14.5	17.0	16.5	13.0	15.0
24	14.5	10.0	12.5	17.5	14.0	16.0	20.0	14.0	17.0	16.5	13.5	15.5
25	13.5	9.0	11.5	18.5	14.5	16.5	20.5	15.0	17.5	17.0	14.0	15.5
26	13.5	8.5	11.0	19.5	15.5	17.5	20.0	16.0	17.5	17.0	14.5	16.0
27	14.0	9.0	11.5	19.5	16.0	17.5	19.0	14.5	17.0	17.0	14.0	15.0
28	15.0	10.0	12.5	19.5	16.0	17.5	20.0	14.5	17.0	16.0	12.5	14.0
29	16.0	11.0	13.5	20.0	17.0	18.5	20.5	15.0	17.5	14.5	11.5	13.0
30	16.5	11.5	14.0	20.0	16.0	17.5	20.0	14.5	17.0	14.5	12.0	13.5
31	---	---	---	20.0	16.0	18.0	17.5	12.0	14.5	---	---	---
MONTH	16.5	2.5	9.1	20.0	10.0	15.8	20.5	10.0	16.5	19.0	11.0	15.0
YEAR	20.5	.0	6.7									

PYRAMID AND WINNEMUCCA LAKES BASIN
10336645 GENERAL CREEK NEAR MEEKS BAY, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°03'07", long 120°07'03", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ 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, which are fair. No known diversion or regulation upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 797 ft³/s, January 2, 1997, gage height, 7.86 ft (backwater from plugged culvert), from rating curve extended above 180 ft³/s on basis of computation of flow through culvert; minimum daily, 0.29 ft³/s, July 28, August 15, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft³/s, or maximum.

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
May 12	2115	216	2.64	June 13	2130	146	2.26
May 26	2130	307	3.16				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	4.5	e13	4.1	9.3	16	e16	51	122	18	1.7	2.5
2	2.3	2.6	e7.4	4.1	e7.5	16	15	67	107	16	1.8	2.5
3	2.1	2.5	e10	3.7	6.9	17	15	52	62	14	1.9	2.3
4	2.4	2.5	e7.9	3.8	7.7	17	e13	41	44	13	1.6	2.0
5	2.5	2.1	e7.7	3.7	7.7	15	e12	41	49	11	1.3	2.0
6	2.5	2.0	e7.5	3.7	7.7	13	e12	61	88	9.0	2.0	1.9
7	2.3	3.3	e7.3	3.7	e9.5	13	e11	90	84	7.9	1.9	1.9
8	2.5	3.2	e7.1	4.1	e12	12	e11	99	71	7.2	1.6	1.8
9	2.7	e2.5	e6.9	4.1	e16	e10	e10	90	68	6.6	2.1	2.2
10	2.8	e2.5	e6.7	4.1	e16	e9.5	e10	81	75	6.0	2.8	2.4
11	3.2	e2.5	e6.5	4.1	e16	10	12	100	88	5.3	2.5	1.7
12	2.9	e2.5	e6.3	4.1	e15	e8.8	13	147	94	4.7	2.2	1.7
13	3.2	e2.5	e6.1	4.1	12	9.6	15	148	103	4.2	1.9	1.9
14	2.9	e2.5	e6.1	4.1	11	10	19	92	103	4.0	1.8	2.3
15	2.2	e2.5	e5.9	4.9	10	11	21	69	96	3.5	2.0	2.1
16	2.3	e2.5	e5.7	9.7	10	11	23	70	93	3.1	2.0	2.1
17	2.5	e3.2	e5.7	9.2	e15	11	29	95	82	3.1	1.9	2.1
18	2.2	e3.2	e5.7	e16	e12	13	39	123	76	2.7	1.8	2.1
19	2.4	e2.8	e5.7	e8.5	e11	15	45	127	68	2.5	1.7	2.1
20	2.5	e2.8	e5.7	e9.5	e10	15	53	141	59	2.6	1.7	2.1
21	2.2	e2.8	e5.9	e8.6	e9.5	14	58	148	54	2.4	1.7	2.1
22	2.1	e3.7	e5.8	e7.7	e9.0	14	53	158	50	2.0	1.9	2.1
23	1.8	e12	e5.7	e8.0	e8.5	14	45	169	48	1.9	2.1	1.8
24	3.0	e7.9	5.5	e8.5	e8.0	14	39	177	43	1.8	2.3	1.8
25	4.1	e5.0	5.5	e8.8	e8.0	15	45	207	34	1.7	2.4	1.8
26	3.9	e3.7	5.1	e9.1	e8.5	19	63	203	27	1.7	2.5	1.8
27	3.3	e3.2	4.8	10	9.5	22	63	179	23	1.9	2.5	1.6
28	3.1	e3.2	4.5	e10	11	21	54	161	21	1.7	2.3	1.6
29	3.0	e4.1	4.5	e10	---	20	42	120	21	1.6	2.0	1.6
30	2.9	e15	4.5	e9.0	---	18	39	113	19	1.8	2.1	1.6
31	2.8	---	4.4	9.2	---	e17	---	129	---	1.8	2.4	---
TOTAL	83.5	115.3	197.1	212.2	294.3	440.9	895	3549	1972	164.7	62.4	59.5
MEAN	2.69	3.84	6.36	6.85	10.5	14.2	29.8	114	65.7	5.31	2.01	1.98
MAX	4.1	15	13	16	16	22	63	207	122	18	2.8	2.5
MIN	1.8	2.0	4.4	3.7	6.9	8.8	10	41	19	1.6	1.3	1.6
AC-FT	166	229	391	421	584	875	1780	7040	3910	327	124	118

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1999, BY WATER YEAR (WY)

	MEAN	2.23	7.29	9.62	10.4	13.3	18.9	38.2	64.4	39.4	7.43	1.39	1.39
MAX	15.5	45.4	58.7	68.9	64.2	60.1	70.4	114	158	49.6	4.72	4.36	
(WY)	1983	1982	1982	1997	1986	1986	1989	1999	1983	1983	1983	1983	
MIN	.73	.84	.89	.90	.99	5.86	15.9	7.18	2.23	.49	.35	.39	
(WY)	1993	1993	1991	1991	1991	1994	1991	1992	1992	1994	1994	1992	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1980 - 1999			
ANNUAL TOTAL	9024.20				8045.9							
ANNUAL MEAN	24.7				22.0				17.8			
HIGHEST ANNUAL MEAN									34.7			
LOWEST ANNUAL MEAN									4.96			
HIGHEST DAILY MEAN	243 Jun 7				207 May 25				600 Jan 1 1997			
LOWEST DAILY MEAN	.51 Aug 11				1.3 Aug 5				.29 Jul 28 1994			
ANNUAL SEVEN-DAY MINIMUM	.71 Aug 7				1.7 Sep 24				.31 Aug 15 1994			
INSTANTANEOUS PEAK FLOW					307 May 26				797 Jan 2 1997			
INSTANTANEOUS PEAK STAGE					3.16 May 26				7.86 Jan 2 1997			
ANNUAL RUNOFF (AC-FT)	17900				15960				12920			
10 PERCENT EXCEEDS	82				73				52			
50 PERCENT EXCEEDS	7.0				7.2				3.5			
90 PERCENT EXCEEDS	1.7				1.9				.82			

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983.

WATER TEMPERATURE: October 1980 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1980 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT									
22...	1430	2.1	609	97	9.4	--	60	14.5	7.0
27...	1310	3.2	606	95	9.3	7.3	55	11.5	6.5
NOV									
20...	1325	2.8	613	99	11.0	--	51	5.0	2.0
23...	1725	12	--	--	--	--	44	2.5	2.5
23...	2240	12	--	--	--	--	38	-5	.0
30...	1815	15	--	--	--	--	28	-5	.0
DEC									
30...	1535	4.5	605	98	11.2	--	37	2.5	.5
JAN									
18...	1600	23	--	--	--	--	27	.0	.0
29...	1645	12	603	96	11.1	--	33	-1.5	.0
MAR									
02...	1200	16	607	99	11.2	--	32	9.5	1.0
30...	1220	18	601	101	11.0	--	29	1.0	2.0
APR									
19...	2150	53	--	--	--	--	23	2.0	1.0
20...	0750	51	--	--	--	--	22	.0	.5
30...	1705	40	603	100	10.1	--	23	10.0	5.0
MAY									
12...	2120	216	--	--	--	--	14	3.5	1.0
13...	1455	129	--	--	--	--	15	7.0	4.0
20...	0820	129	605	99	11.0	--	14	6.5	1.5
25...	1850	232	--	--	--	--	12	16.5	4.0
26...	1500	126	--	--	--	--	13	20.5	6.5
JUN									
02...	1910	87	599	98	10.2	--	13	.0	3.5
12...	2050	119	--	--	--	--	11	10.5	6.5
17...	2340	105	--	--	--	--	11	7.0	7.5
24...	1230	39	603	99	8.6	--	15	21.5	11.0
JUL									
16...	1630	2.8	601	95	7.2	--	41	19.5	17.0
AUG									
19...	1630	1.8	613	92	7.2	--	56	22.5	16.5
SEP									
22...	1740	2.1	609	93	7.9	--	61	15.5	12.5

PYRAMID AND WINNEMUCCA LAKES BASIN
10336645 GENERAL CREEK NEAR MEEKS BAY, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999								
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO, REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT								
22...	.004	.14	.005	.013	.023	217	.02	4
27...	.004	.09	.004	.012	.020	188	.01	1
NOV								
20...	.003	.05	.006	.010	.019	157	.05	6
23...	.003	.24	.015	.010	.078	1550	.97	30
23...	.003	.20	.021	.009	.058	868	1.3	39
30...	.003	.22	.030	.003	.049	700	.73	18
DEC								
30...	.002	.06	.015	.006	.013	95	.07	6
JAN								
18...	.002	.17	.026	.005	.019	196	.81	13
29...	.002	.08	.022	.006	.013	162	.10	3
MAR								
02...	.003	.08	.017	.005	.009	69	.13	3
30...	.003	.08	.018	.004	.009	59	.34	7
APR								
19...	.002	.12	.024	.001	.025	277	2.0	14
20...	.002	.15	.024	.001	.016	192	.96	7
30...	.002	.11	.014	.003	.012	95	1.1	10
MAY								
12...	.002	.50	.013	.002	.046	809	23	40
13...	.002	.14	.009	.001	.017	180	3.5	10
20...	.002	.09	.007	.002	.017	220	5.6	16
25...	.002	.17	.007	.002	.039	686	40	64
26...	.002	.13	.006	.001	.021	387	11	31
JUN								
02...	.002	.08	.005	.002	.013	153	2.6	11
12...	.001	.06	.004	.002	.016	264	7.4	23
17...	.002	.06	.003	.003	.012	105	1.7	6
24...	.002	.08	.004	.003	.013	82	.42	4
JUL								
16...	.003	.08	.007	.009	.027	125	.03	4
AUG								
19...	.001	.05	.007	.017	.038	154	.005	1
SEP								
22...	.002	.04	.006	.016	.037	176	.03	5

PYRAMID AND WINNEMUCCA LAKES BASIN
10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°06'27", long 120°09'40", in NW 1/4 NE 1/4 sec.36, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, on right bank, 300 ft upstream from bridge on State Highway 89, 1,000 ft upstream from Lake Tahoe, and 4.6 mi south of Tahoe City.

DRAINAGE AREA.--11.2 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. October 1, 1960, to September 30, 1964, at datum 10.25 ft lower and October 1, 1964, to August 27, 1970, at datum 12 ft lower, at site 400 ft downstream.

REMARKS.--Records fair. No known diversion or regulation upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,940 ft³/s, January 1, 1997, gage height, 9.82 ft; maximum gage height, 9.90 ft, site and datum then in use, December 22, 1964; minimum daily, 0.50 ft³/s, September 24, 1968.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	1930	429	3.24	June 16	2100	281	3.73

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	e5.0	e18	e7.9	e13	e20	24	90	233	99	8.9	3.3
2	3.6	e4.8	e14	e7.9	e12	e20	23	104	208	93	8.5	3.2
3	3.6	e4.4	e15	e7.9	e12	e21	22	80	147	86	7.3	3.1
4	3.6	e4.2	e14	e8.5	e12	e21	21	64	127	71	7.1	3.0
5	3.7	e4.0	e13	e8.5	e12	e20	24	64	129	63	7.1	2.8
6	3.7	e3.8	e13	e8.5	e12	e17	22	89	145	62	8.1	2.5
7	3.9	e4.1	e12	e8.5	e14	e17	19	116	141	54	7.9	2.5
8	3.9	e4.1	e12	e9.9	e17	e16	20	113	133	50	7.3	2.5
9	3.8	e4.0	e12	e9.9	e21	14	25	104	129	46	7.5	2.8
10	3.8	4.1	e12	e9.8	e21	e14	20	102	138	44	8.7	2.6
11	3.7	4.2	e12	e9.7	e21	13	17	118	151	43	7.8	2.5
12	3.7	4.2	e11	e9.7	e19	14	19	143	163	41	7.2	2.4
13	3.8	4.2	e11	e9.7	e16	13	22	145	181	38	6.7	2.5
14	3.8	4.3	e11	e9.6	e14	14	26	118	192	38	6.5	2.4
15	3.7	4.4	e11	e11	e13	14	29	102	204	35	6.2	2.3
16	3.7	4.1	e11	e20	e13	14	32	101	202	31	6.0	2.2
17	3.8	e4.8	e10	e19	e18	15	43	119	188	28	5.7	2.2
18	3.9	e4.7	e10	e28	e15	17	63	136	184	24	5.5	2.3
19	3.8	e4.2	e9.7	e18	e13	19	85	146	170	22	5.1	2.3
20	3.8	e4.0	e9.4	e19	e13	18	100	155	160	21	4.8	2.2
21	3.7	e4.1	e9.2	e16	e12	17	102	164	157	19	4.7	2.2
22	3.7	e6.2	e8.8	e13	e12	18	85	183	158	18	4.8	2.2
23	3.8	e15	e8.8	e14	e11	19	66	204	162	16	4.6	2.2
24	4.3	e9.6	e8.8	e14	e11	19	63	228	170	14	4.3	2.1
25	4.2	e7.4	e8.7	e14	10	21	91	257	137	13	4.2	2.1
26	4.1	e6.2	e8.7	e14	e12	27	121	305	108	12	4.3	2.1
27	4.1	e6.1	e8.4	e14	e12	32	112	309	98	12	4.5	2.1
28	4.1	e7.2	e8.2	e14	e14	31	90	316	96	11	4.1	2.1
29	e4.0	e9.3	e8.1	e14	---	29	69	257	99	11	3.6	2.0
30	e3.9	e20	e8.1	e13	---	27	66	237	102	10	3.4	2.0
31	e3.8	---	e8.0	e13	---	28	---	231	---	9.7	3.4	---
TOTAL	118.6	176.7	334.9	394.0	395	599	1521	4900	4612	1134.7	185.8	72.7
MEAN	3.83	5.89	10.8	12.7	14.1	19.3	50.7	158	154	36.6	5.99	2.42
MAX	4.3	20	18	28	21	32	121	316	233	99	8.9	3.3
MIN	3.6	3.8	8.0	7.9	10	13	17	64	96	9.7	3.4	2.0
AC-FT	235	350	664	781	783	1190	3020	9720	9150	2250	369	141

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1999, BY WATER YEAR (WY)

MEAN	4.94	13.0	20.5	26.2	21.9	30.9	60.8	129	104	30.3	5.92	2.91
MAX	28.1	94.8	157	201	116	122	124	312	320	149	36.1	10.3
(WY)	1963	1984	1965	1997	1986	1986	1989	1969	1983	1983	1983	1982
MIN	1.31	1.68	1.90	2.00	2.27	3.82	13.6	29.7	7.20	3.11	1.51	1.21
(WY)	1978	1978	1977	1991	1991	1977	1975	1977	1992	1987	1994	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1961 - 1999
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ANNUAL TOTAL	17990.4		14444.4				
ANNUAL MEAN	49.3		39.6			37.6	
HIGHEST ANNUAL MEAN						73.4	1982
LOWEST ANNUAL MEAN						8.71	1977
HIGHEST DAILY MEAN	315	Jun 7	316	May 28	2000		Jan 1 1997
LOWEST DAILY MEAN	3.6	Sep 23	2.0	Sep 29		.50	Sep 24 1968
ANNUAL SEVEN-DAY MINIMUM	3.6	Sep 29	2.1	Sep 24		.54	Sep 23 1968
INSTANTANEOUS PEAK FLOW			429	May 26	2940		Jan 1 1997
INSTANTANEOUS PEAK STAGE			3.24	May 26		9.90	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	35680		28650		27220		
10 PERCENT EXCEEDS	157		136		109		
50 PERCENT EXCEEDS	13		13		10		
90 PERCENT EXCEEDS	3.9		3.6		2.2		

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: December 1980 to September 1983.

WATER TEMPERATURE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to June 1978 (1977-78 storm season only), October 1979 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT									
22...	1640	4.0	612	98	9.3	--	68	10.5	8.0
27...	1200	4.2	607	97	9.5	7.6	62	10.5	6.5
NOV									
20...	1035	4.0	621	100	11.4	--	65	3.0	1.5
23...	1620	15	--	--	--	--	60	1.5	3.5
23...	2135	15	--	--	--	--	53	.0	1.0
30...	1705	20	--	--	--	--	42	-5	.0
DEC									
30...	1420	8.1	608	97	10.7	--	58	3.0	2.0
JAN									
18...	1455	28	--	--	--	--	45	.0	.0
29...	1530	14	608	98	10.8	--	55	.0	2.0
MAR									
02...	1025	20	602	103	11.4	--	56	2.5	1.5
29...	1745	29	604	100	10.5	--	55	2.0	3.5
APR									
19...	2035	109	622	98	11.2	--	43	1.5	1.5
20...	0700	91	--	--	--	--	47	-1.0	1.5
30...	1550	66	605	101	9.6	--	51	7.5	7.5
MAY									
12...	2020	188	--	--	--	--	36	4.5	1.5
13...	1400	134	--	--	--	--	41	6.5	6.0
20...	0710	145	600	98	10.8	--	37	2.0	1.5
25...	1755	304	--	--	--	--	29	15.5	4.0
26...	1350	299	--	--	--	--	31	16.0	6.5
JUN									
02...	1805	192	602	99	10.5	--	33	.0	3.0
12...	1955	204	--	--	--	--	28	12.5	5.0
17...	2250	211	--	--	--	--	26	7.5	4.0
24...	1125	145	606	101	9.5	--	29	20.5	8.0
JUL									
16...	1520	31	608	97	7.6	--	40	--	16.0
AUG									
19...	1525	5.1	613	96	7.2	--	59	23.0	18.5
SEP									
22...	1640	2.1	608	100	8.2	--	67	17.0	14.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
22...	.001	.06	.004	.008	.016	119	.02	2
27...	.002	.06	.003	.007	.018	60	.02	2
NOV								
20...	.002	<.04	.005	.007	.015	66	.02	2
23...	.002	.05	.017	.009	.022	191	.53	13
23...	.001	.14	.028	.008	.047	634	1.3	33
30...	.002	.04	.078	.006	.046	532	2.1	39
DEC								
30...	.002	.06	.005	.005	.012	88	.15	7
JAN								
18...	.001	.10	.003	.004	.024	255	.91	12
29...	.001	<.04	.014	.006	.014	133	.15	4
MAR								
02...	.004	.04	.043	.005	.012	116	.16	3
29...	.004	.05	.039	.004	.014	122	.31	4
APR								
19...	.001	.27	.081	.001	.145	1900	39	132
20...	.003	.12	.096	.001	.033	426	6.4	26
30...	.003	.07	.061	.004	.019	183	2.0	11
MAY								
12...	.003	.69	.062	.003	.772	4070	140	275
13...	.002	.13	.078	.003	.041	582	14	38
20...	.003	.08	.052	.004	.045	479	15	38
25...	.003	>.40	.041	.002	.435	5390	322	392
26...	.002	.24	.045	.002	.142	2390	110	136
JUN								
02...	.003	.07	.031	.004	.029	477	17	32
12...	.002	.10	.029	.003	.046	635	28	51
17...	.002	.06	.030	.004	.035	399	21	36
24...	.003	.07	.014	.003	.015	154	3.5	9
JUL								
16...	.002	.05	.007	.002	.022	119	.25	3
AUG								
19...	.002	.04	.009	.011	.031	108	.01	1
SEP								
22...	.004	<.04	.005	.009	.031	94	.01	1

PYRAMID AND WINNEMUCCA LAKES BASIN

10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°08'27", long 120°12'40", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,600 ft above sea level, from topographic map.

REMARKS.--Records fair including estimated daily discharges. No storage or diversion upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,220 ft³/s, January 1, 1997, gage height, 8.85 ft, from crest stage gage; no flow for some days in most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 50 ft³/s, or maximum:

Discharge Gage height				Discharge Gage height								
Date	Time	(ft³/s)	(ft)	Date	Time	(ft³/s)	(ft)					
May 26	1730	264	5.54	June 14	1830	182	5.19					
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	e2.2	8.6	e1.9	6.3	e6.6	8.5	33	122	58	3.8	.79
2	1.2	e1.6	e6.2	e1.7	6.2	e4.7	8.2	38	95	55	3.5	.77
3	1.2	e1.5	e7.0	e1.7	6.3	e4.8	8.0	29	60	47	3.2	.75
4	1.2	e1.4	e6.0	e1.3	6.4	e4.2	7.7	24	45	39	2.9	.69
5	1.2	e1.3	e6.2	e1.5	6.2	e4.0	7.8	25	53	34	2.8	.66
6	1.1	e1.3	e6.1	e1.5	e6.3	e3.8	7.7	34	77	31	3.4	.61
7	1.1	e1.5	e5.6	e1.7	e7.2	e3.6	7.6	47	73	29	3.1	.58
8	1.1	e1.3	e5.5	e1.3	e7.0	e3.4	7.8	47	68	27	2.8	.55
9	e1.0	e1.1	e5.3	e1.5	e7.2	e3.2	7.2	45	67	24	2.9	.61
10	e1.0	e1.1	e5.1	e1.7	e7.2	e3.2	7.1	46	73	23	3.6	.62
11	e1.0	e1.1	e5.0	e1.7	e7.7	e3.4	7.1	59	87	23	3.0	.57
12	e1.0	e1.1	e4.6	e2.0	6.1	e3.8	7.6	78	92	22	2.5	.53
13	e1.0	e1.1	e4.6	e1.5	6.0	e4.2	9.0	74	108	21	2.2	.54
14	e1.0	e1.4	e4.3	e2.0	e5.7	e4.7	11	59	121	19	2.1	.52
15	e1.0	e1.3	e4.3	e2.8	e5.4	e5.2	11	50	119	17	1.9	.47
16	e1.1	e1.2	e4.2	e4.9	e5.1	e5.7	13	53	120	14	1.8	.46
17	e1.1	e1.3	e3.7	e5.8	e6.2	6.6	16	67	115	13	1.6	.45
18	e1.1	e1.2	e3.6	e6.0	e5.2	7.4	22	76	111	12	1.5	.47
19	e1.1	e1.1	e3.5	e7.9	e4.8	7.9	28	83	103	10	1.4	.50
20	1.2	e1.2	e3.1	e7.5	e4.6	7.5	32	88	97	9.5	1.3	.47
21	1.2	e1.1	e2.6	e7.0	e4.6	7.2	31	95	94	8.6	1.2	.45
22	1.2	e1.1	e2.8	e6.2	e4.1	7.0	26	108	98	8.1	1.2	.43
23	1.2	e4.6	e2.8	e5.7	e3.9	7.1	21	127	102	7.5	1.2	.44
24	1.9	e6.6	e2.4	e6.5	e3.3	7.1	22	149	97	6.9	1.0	.44
25	e3.1	e3.6	e2.8	6.9	e3.7	7.5	34	173	76	6.4	.96	.42
26	e2.9	e2.3	e2.6	6.7	e4.3	9.7	42	182	61	6.0	.96	.40
27	e2.5	e2.0	e2.4	6.6	e4.3	11	36	169	54	5.5	1.1	.40
28	e2.3	e1.9	e2.0	6.5	e5.4	11	30	158	54	5.1	.94	.40
29	e2.3	e2.8	e2.0	6.3	---	10	24	110	56	4.7	.83	.41
30	e1.9	e1.3	e2.2	6.4	---	9.7	23	113	58	e5.5	.81	.39
31	e1.8	---	e2.0	6.5	---	9.2	---	118	---	4.0	.80	---
TOTAL	44.3	65.3	129.1	129.2	156.7	194.4	523.3	2557	2556	595.8	62.30	15.79
MEAN	1.43	2.18	4.16	4.17	5.60	6.27	17.4	82.5	85.2	19.2	2.01	.53
MAX	3.1	13	8.6	7.9	7.7	11	42	182	122	58	3.8	.79
MIN	1.0	1.1	2.0	1.3	3.3	3.2	7.1	24	45	4.0	.80	.39
AC-FT	88	130	256	256	311	386	1040	5070	5070	1180	124	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.63	2.21	5.94	12.9	8.08	12.9	25.6	60.8
MAX	1.43	9.82	27.2	68.8	32.5	26.9	43.1	93.5
(WY)	1999	1997	1997	1996	1996	1995	1998	1995
MIN	.11	.45	.69	.82	.95	5.85	16.2	20.5
(WY)	1993	1996	1995	1992	1994	1994	1998	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1992 - 1999

	1998	1999	1992	1993	1994	1995	1996	1997	1998	1999
ANNUAL TOTAL	8363.4	7029.19								
ANNUAL MEAN	22.9	19.3								
HIGHEST ANNUAL MEAN										
LOWEST ANNUAL MEAN										
HIGHEST DAILY MEAN	166	Jun 7	182	May 26						
LOWEST DAILY MEAN	1.0	Sep 18	.39	Sep 30						
ANNUAL SEVEN-DAY MINIMUM	1.0	Oct 9	.41	Sep 24						
INSTANTANEOUS PEAK FLOW			264	May 26						
INSTANTANEOUS PEAK STAGE			5.54	May 26						
ANNUAL RUNOFF (AC-FT)	16590	13940								
10 PERCENT EXCEEDS	88	70								
50 PERCENT EXCEEDS	5.0	5.1								
90 PERCENT EXCEEDS	1.2	.98								

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10336674 WARD CREEK BELOW CONFLUENCE NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993 to current year.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT							
23...	1225	1.1	44	13.5	5.0	.001	.15
NOV							
19...	1255	1.1	45	3.5	1.5	.003	<.04
30...	1235	13	32	1.5	.5	.004	.04
DEC							
30...	1010	2.2	39	-.5	.5	.003	.06
JAN							
29...	1100	6.3	39	-5.0	.0	.003	.04
MAR							
01...	1440	4.7	39	5.5	.5	.006	.08
29...	1310	10	41	5.0	2.0	.004	<.04
APR							
19...	1650	29	37	11.0	1.0	.004	.06
30...	1120	21	38	--	2.0	.002	.04
MAY							
12...	1630	88	30	9.0	.5	.002	.27
13...	1005	66	33	--	1.0	.001	.08
20...	1040	73	32	10.0	1.5	.002	.08
25...	1440	185	25	18.5	1.5	.004	.17
26...	1050	121	28	15.5	2.0	.002	.04
JUN							
02...	1410	90	27	2.0	2.0	.002	.04
12...	1640	120	23	17.5	3.5	.002	.06
17...	1910	153	22	13.5	3.0	.002	.09
24...	0805	83	25	15.5	3.5	.003	.07
JUL							
16...	1210	14	30	19.0	10.0	.002	.04
AUG							
19...	1120	1.6	40	21.0	11.5	.004	<.04
SEP							
22...	1145	.46	43	18.0	10.5	.004	<.04

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT						
23...	.007	.001	.009	21	<.003	<1
NOV						
19...	.026	.004	.013	18	.003	1
30...	.071	.006	.022	113	.28	8
DEC						
30...	.030	.003	.010	30	.01	1
JAN						
29...	.033	.005	.010	15	.02	1
MAR						
01...	.042	.005	.012	88	.04	3
29...	.038	.003	.009	32	.05	2
APR						
19...	.067	.002	.019	93	.63	8
30...	.043	.003	.008	47	<.06	<1
MAY						
12...	.041	.004	.065	875	16	67
13...	.046	.003	.018	108	1.4	8
20...	.037	.004	.021	70	1.2	6
25...	.039	.005	.064	640	31	62
26...	.038	.005	.027	188	5.6	17
JUN						
02...	.026	.005	.016	68	1.9	8
12...	.022	.004	.027	171	5.2	16
17...	.026	.005	.027	175	7.0	17
24...	.019	.005	.014	100	1.3	6
JUL						
16...	.005	.002	.019	36	.04	1
AUG						
19...	.007	.005	.020	20	.004	1
SEP						
22...	.009	.005	.023	64	.001	1

PYRAMID AND WINNEMUCCA LAKES BASIN

10336675 WARD CREEK AT STANFORD ROCK TRAIL CROSSING NEAR TAHOE CITY, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°08'13", long 120°10'48", in NE 1/4 NW 1/4 sec.23, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on left bank, 1.5 mi west of William Kent Campground, 1.7 mi upstream from mouth, and 3.6 mi southwest of Tahoe City.

DRAINAGE AREA.--8.97 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,450 ft above sea level, from topographic map.

REMARKS.--Records fair. No storage or diversion upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,370 ft³/s, January 1, 1997, gage height, 7.58 ft; maximum gage height, 8.23 ft, January 10, 1995, backwater from ice; minimum daily, 0.30 ft³/s, September 22, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 80 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	1530	e390	a5.93	June 16	1745	e210	a5.49

a: Orifice buried.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.6	13	4.9	e8.0	e10	15	52	177	e72	6.3	2.5
2	2.8	3.1	9.4	e4.8	e7.5	11	10	64	153	e69	5.8	2.5
3	2.7	2.9	e8.9	5.0	7.0	11	9.5	45	102	e60	5.6	2.4
4	2.7	2.9	e8.3	5.0	7.2	10	12	36	80	e52	5.4	2.4
5	2.6	2.8	e7.7	4.9	6.9	9.4	11	39	85	e41	5.2	2.3
6	2.6	2.8	e7.3	4.9	8.0	8.9	9.3	55	111	e37	5.9	2.2
7	2.5	3.0	e7.0	4.7	e8.2	8.6	8.2	72	106	e34	5.6	2.2
8	2.5	3.0	6.7	4.8	e8.3	8.4	e8.2	77	100	e31	5.3	2.1
9	2.4	e3.0	6.3	4.8	e8.5	e9.0	e7.9	64	97	e26	5.4	2.3
10	2.3	3.0	e6.1	4.8	e8.9	e8.9	e7.6	73	101	e26	6.4	2.2
11	2.3	3.0	6.0	4.8	e9.3	7.9	7.5	104	116	e25	5.9	2.1
12	2.3	2.9	6.0	4.7	e10	8.1	e8.0	145	128	e24	5.2	2.0
13	2.2	3.2	6.1	4.7	11	8.0	e12	112	138	e22	4.8	2.0
14	2.3	3.7	5.8	4.8	8.3	8.3	e16	83	148	e20	4.6	2.0
15	2.3	3.7	5.6	5.9	7.5	8.0	e18	68	153	e17	4.3	1.9
16	2.2	3.6	5.7	7.0	7.7	7.9	e20	71	159	e18	4.0	1.9
17	2.2	3.8	6.0	e7.5	9.1	8.7	20	93	160	e16	3.8	1.8
18	2.2	3.6	e5.9	8.1	e8.9	9.9	27	109	143	e15	3.6	2.0
19	2.2	e3.6	e5.9	e10	e8.5	11	36	128	130	e13	3.4	2.0
20	2.2	e3.5	e5.9	e9.8	e8.2	10	44	139	123	e12	3.2	1.9
21	2.2	3.5	e5.8	e9.5	e8.0	9.7	46	157	118	e12	3.1	1.8
22	2.2	3.9	e5.8	e9.3	7.5	9.5	44	189	123	12	3.2	1.8
23	2.2	9.5	e5.7	e9.0	e7.4	9.8	38	196	128	11	3.2	1.8
24	2.7	8.7	e5.7	e8.8	7.3	9.9	38	226	121	10	3.0	1.8
25	2.8	5.9	e5.5	e8.6	e7.2	11	58	e270	97	9.5	2.8	1.8
26	2.9	5.3	5.2	e8.4	7.2	14	e85	e287	80	9.0	2.8	1.7
27	2.8	5.0	5.2	e8.2	7.1	16	61	266	72	8.3	3.1	1.7
28	2.7	4.8	5.1	e8.0	7.3	16	50	246	e68	7.7	2.7	1.7
29	2.8	5.4	5.1	e8.5	---	15	36	184	e70	7.3	2.6	1.7
30	2.8	20	5.1	e9.0	---	14	41	173	e72	7.1	2.5	1.7
31	2.6	---	5.1	7.4	---	14	---	176	---	6.8	2.5	---
TOTAL	77.2	136.7	198.9	210.6	226.0	321.9	804.2	3999	3459	730.7	131.2	60.2
MEAN	2.49	4.56	6.42	6.79	8.07	10.4	26.8	129	115	23.6	4.23	2.01
MAX	3.0	20	13	10	11	16	85	287	177	72	6.4	2.5
MIN	2.2	2.8	5.1	4.7	6.9	7.9	7.5	36	68	6.8	2.5	1.7
AC-FT	153	271	395	418	448	638	1600	7930	6860	1450	260	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	1.66	3.81	10.2	24.4	14.3	22.9	43.3	99.1	88.9	30.3	5.33	1.76
MAX	2.52	14.5	47.5	135	51.2	52.1	70.0	168	182	107	20.1	3.36
(WY)	1994	1997	1997	1997	1996	1996	1996	1996	1995	1995	1995	1995
MIN	.73	1.59	1.47	2.26	2.19	9.10	26.2	22.7	4.60	1.41	.44	.36
(WY)	1995	1998	1995	1992	1994	1994	1994	1992	1992	1994	1994	1994

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1992 - 1999

ANNUAL TOTAL	11958.9	10355.6	
ANNUAL MEAN	32.8	28.4	28.9
HIGHEST ANNUAL MEAN			47.5
LOWEST ANNUAL MEAN			7.69
HIGHEST DAILY MEAN	266	Jun 7	1300
LOWEST DAILY MEAN	1.7	Jan 8	.30
ANNUAL SEVEN-DAY MINIMUM	1.7	Jan 5	.31
INSTANTANEOUS PEAK FLOW			2370
INSTANTANEOUS PEAK STAGE			8.23
ANNUAL RUNOFF (AC-FT)	23720	20540	20920
10 PERCENT EXCEEDS	103	101	93
50 PERCENT EXCEEDS	6.0	7.7	6.2
90 PERCENT EXCEEDS	2.6	2.3	1.4

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10336675 WARD CREEK AT STANFORD ROCK TRAIL CROSSING NEAR TAHOE CITY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993 to current year.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT							
23...	1440	2.3	70	14.0	7.0	.002	.14
NOV							
19...	1505	3.6	64	-1.0	.5	.003	.04
30...	1505	25	44	.0	.0	.003	.14
DEC							
30...	1135	5.2	55	3.0	.5	.002	.05
JAN							
29...	1250	8.5	50	2.5	.0	.002	.05
MAR							
01...	1645	10	49	1.5	1.0	.003	.08
29...	1550	14	50	3.0	3.0	.002	<.04
APR							
19...	1820	42	45	9.0	2.0	.003	.08
30...	1300	42	47	10.0	5.0	.002	.06
MAY							
12...	1810	174	35	8.5	1.0	.002	.49
13...	1150	95	39	9.5	3.5	.002	.12
20...	1200	99	37	12.5	4.0	.002	.05
25...	1610	312	30	--	--	.003	.44
26...	1225	259	32	20.0	5.0	.003	.13
JUN							
02...	1555	136	33	4.0	3.5	.002	<.04
12...	1805	159	29	15.5	5.0	.001	.10
17...	2025	171	28	10.0	4.0	.003	.08
24...	0930	107	30	19.0	5.5	.001	.07
JUL							
16...	1340	18	38	21.5	14.0	.002	.04
AUG							
19...	1255	3.5	60	24.0	16.5	.005	.04
SEP							
22...	1320	1.8	74	18.5	13.0	.004	<.04
DATE		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT							
23...		.007	.015	.026	44	.01	1
NOV							
19...		.010	.013	.022	36	.05	5
30...		.058	.005	.040	281	1.8	27
DEC							
30...		.017	.009	.017	33	.04	3
JAN							
29...		.018	.008	.017	44	.05	2
MAR							
01...		.022	.007	.016	74	.24	9
29...		.019	.002	.013	28	.15	4
APR							
19...		.058	.002	.038	309	2.5	22
30...		.031	.004	.012	55	.23	2
MAY							
12...		.030	.005	.112	2210	66	141
13...		.032	.004	.022	166	3.1	12
20...		.011	.005	.019	97	2.1	8
25...		.028	.004	.153	1920	143	170
26...		.030	.005	.037	357	17	25
JUN							
02...		.018	.005	.021	116	2.9	8
12...		.015	.005	.028	232	8.2	19
17...		.017	.006	.033	217	10	22
24...		.003	.005	.015	64	1.4	5
JUL							
16...		.005	.004	.021	29	.05	1
AUG							
19...		.010	.014	.031	47	<.01	<1
SEP							
22...		.009	.017	.038	67	.01	3

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°07'56", long 120°09'24", in NW 1/4 SE 1/4 sec.24, T.15 N., R.16 E., Placer County, Hydrologic Unit 16050101, Tahoe National Forest, on right bank 165 ft downstream from State Highway 89 Bridge, 2.1 mi north of Tahoe Pines, and 2.6 mi southwest of Tahoe City.

DRAINAGE AREA.—9.70 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 days, which are fair. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,530 ft³/s, January 1, 1997, gage height, 9.36 ft; no flow for many days during 1977–78, 1981, 1988, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 26	1815	396	6.09	Jun 16	1930	215	5.57

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	e3.6	17	e5.0	e12	e11	19	65	192	75	e6.8	2.6
2	2.9	e3.1	10	e5.0	e12	e12	16	e70	176	72	e6.5	2.5
3	2.8	3.0	e9.0	e5.0	e9.5	14	16	e50	116	63	6.1	2.5
4	2.7	2.8	e9.0	e5.0	e9.5	14	17	46	85	52	5.8	2.4
5	2.6	2.7	e8.8	e5.0	8.9	13	e15	46	90	44	5.6	2.3
6	2.5	2.7	e8.8	e5.0	8.7	12	e14	62	123	40	6.5	2.3
7	2.4	3.1	e8.6	e5.0	e8.9	12	13	86	117	37	6.2	2.2
8	2.3	2.9	e8.6	e5.0	e9.0	12	e13	88	107	34	5.6	2.1
9	2.3	2.8	e8.3	e5.0	e9.2	e11	e13	84	103	31	5.7	2.4
10	2.3	2.8	e8.3	e5.0	e9.6	e11	e13	84	108	29	7.1	2.5
11	2.3	2.9	e8.0	e5.0	e10	11	13	106	126	29	6.3	2.2
12	2.2	e2.9	e8.0	e5.0	e11	11	14	142	135	27	5.4	2.1
13	2.1	2.9	e7.8	e5.0	e12	11	17	138	152	26	4.9	2.1
14	2.1	3.5	e7.8	e5.0	e12	11	19	108	165	24	4.6	2.1
15	2.1	3.4	e7.4	e6.0	e12	11	20	91	169	21	4.3	2.0
16	2.0	3.2	e7.4	e8.0	e12	11	23	91	173	19	4.1	1.9
17	2.0	3.7	e7.1	e9.5	e11	12	29	115	163	17	3.9	1.9
18	2.1	3.2	e6.8	e12	11	14	38	131	156	16	3.7	1.9
19	2.0	3.8	e6.8	e11	11	15	51	140	147	14	3.5	2.0
20	2.0	3.4	e6.5	e10	9.9	14	60	151	137	13	3.3	1.9
21	2.0	3.0	e6.4	e9.5	e9.7	14	62	164	133	12	3.2	1.8
22	2.0	3.7	e6.4	e9.3	e9.5	14	53	186	135	12	3.2	1.8
23	2.0	10	e6.3	e9.0	9.4	14	44	209	139	11	3.2	1.7
24	2.9	11	e6.2	e8.8	e9.4	14	44	240	134	11	2.9	1.7
25	3.0	6.8	e6.1	e8.6	e9.3	15	64	270	107	10	2.8	1.6
26	3.0	5.8	e5.9	e8.4	e9.1	19	85	287	85	9.5	2.8	1.6
27	2.9	5.3	e5.7	e8.2	9.1	22	76	266	74	9.0	3.2	1.6
28	2.7	5.1	e5.1	e8.0	9.7	21	60	e244	71	8.5	2.8	1.5
29	2.8	6.0	e5.1	e10	---	20	49	e186	73	8.0	2.6	1.5
30	2.7	21	e5.1	e11	---	19	48	e174	75	e7.9	2.6	1.5
31	e2.5	---	e5.1	e12	---	e18	---	e180	---	e7.4	2.6	---
TOTAL	75.5	140.1	233.4	229.3	284.4	433	1018	4300	3766	789.3	137.8	60.2
MEAN	2.44	4.67	7.53	7.40	10.2	14.0	33.9	139	126	25.5	4.45	2.01
MAX	3.3	21	17	12	12	22	85	287	192	75	7.1	2.6
MIN	2.0	2.7	5.1	5.0	8.7	11	13	46	71	7.4	2.6	1.5
AC-FT	150	278	463	455	564	859	2020	8530	7470	1570	273	119

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

	MEAN	3.23	11.1	12.9	18.0	15.4	21.6	42.1	92.1	78.5	23.8	4.14	1.85
MAX	22.4	73.9	92.5	144	77.7	80.3	89.2	177	265	123	26.9	7.93	
(WY)	1983	1982	1982	1997	1982	1986	1989	1996	1983	1983	1983	1983	1983
MIN	.15	1.06	.80	1.10	1.24	2.52	8.06	18.7	4.59	1.10	.003	.005	
(WY)	1978	1978	1977	1991	1991	1977	1975	1977	1992	1994	1977	1977	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1973 - 1999

ANNUAL TOTAL	13195.4	11467.0	
ANNUAL MEAN	36.2	31.4	27.1
HIGHEST ANNUAL MEAN			59.0
LOWEST ANNUAL MEAN			5.29
HIGHEST DAILY MEAN	280	Jun 7	1390
LOWEST DAILY MEAN	2.0	Oct 16	.00
ANNUAL SEVEN-DAY MINIMUM	2.0	Oct 16	.00
INSTANTANEOUS PEAK FLOW			2530
INSTANTANEOUS PEAK STAGE			9.36
ANNUAL RUNOFF (AC-FT)	26170	22740	19620
10 PERCENT EXCEEDS	113	111	78
50 PERCENT EXCEEDS	7.2	9.3	7.0
90 PERCENT EXCEEDS	2.7	2.3	.97

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-78, 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1980 to September 1983.

WATER TEMPERATURE: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1992.

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to June 1978 (storm season only for water years 1977-78), October 1979 to September 1992.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
OCT									
23...	1540	2.0	607	102	10.1	74	14.0	6.0	.002
NOV									
19...	1600	4.0	612	99	11.6	68	.0	.0	.002
23...	1505	12	--	--	--	62	1.0	1.0	.004
23...	2040	19	--	--	--	53	.0	.0	.002
30...	1610	24	--	--	--	48	.0	.0	.002
DEC									
30...	1235	5.1	608	97	11.3	60	3.0	.0	.002
JAN									
18...	1230	12	--	--	--	46	1.0	.0	<.001
29...	1345	10	612	99	11.6	54	2.0	.0	.001
MAR									
01...	1745	11	606	103	11.8	52	--	.5	.003
29...	1645	20	606	102	10.9	53	3.0	3.0	.004
APR									
19...	1915	63	612	100	11.4	47	5.0	1.0	.002
20...	0610	57	--	--	--	48	.5	1.0	.002
30...	1410	45	607	101	10.0	49	8.0	6.0	.002
MAY									
12...	1900	190	--	--	--	37	7.5	1.0	.001
13...	1240	119	--	--	--	41	10.0	4.5	.001
20...	0605	138	607	99	11.2	38	.5	1.0	.003
25...	1710	339	--	--	--	30	15.5	4.0	.002
26...	1310	248	--	--	--	33	6.0	6.0	.002
JUN									
02...	1655	163	600	99	10.2	34	1.5	4.0	.002
12...	1855	172	--	--	--	30	14.0	5.5	.001
17...	2200	200	--	--	--	29	8.0	4.0	.002
24...	1030	116	596	100	9.6	31	20.0	6.5	.003
JUL									
16...	1020	19	609	100	9.0	40	19.0	10.0	.003
AUG									
19...	1345	3.6	609	100	7.6	64	24.0	17.5	.004
SEP									
22...	1530	1.7	608	100	8.2	76	17.5	14.0	.003

PYRAMID AND WINNEMUCCA LAKES BASIN

10336676 WARD CREEK AT STATE HIGHWAY 89, NEAR TAHOE PINES, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT							
23...	.05	.004	.011	.019	58	<.005	<1
NOV							
19...	.05	.005	.012	.019	59	.06	6
23...	.15	.022	.016	.041	313	.42	13
23...	.12	.055	.013	.040	328	1.0	20
30...	.12	.049	.004	.041	235	1.2	18
DEC							
30...	.05	.016	.009	.017	37	.06	4
JAN							
18...	.15	.022	.008	.027	180	.32	10
29...	.06	.002	.009	.018	57	.16	6
MAR							
01...	.07	.020	.008	.017	107	.21	7
29...	.13	.014	.006	.014	42	.38	7
APR							
19...	.14	.058	.002	.058	566	6.1	36
20...	.10	.067	.001	.023	148	1.8	12
30...	.09	.020	.005	.014	64	.61	5
MAY							
12...	.43	.031	.003	.169	2480	76	148
13...	.13	.025	.003	.026	237	5.1	16
20...	.05	.016	.005	.022	198	5.6	15
25...	.53	.030	.004	.320	3820	309	338
26...	.11	.026	.004	.059	792	29	44
JUN							
02...	.06	.016	.003	.024	144	3.5	8
12...	.07	.009	.004	.033	266	11	23
17...	.10	.014	.005	.029	212	7.0	13
24...	.07	.005	.005	.016	71	1.6	5
JUL							
16...	.04	.006	.004	.018	35	.05	1
AUG							
19...	.05	.009	.013	.034	64	.01	1
SEP							
22...	.04	.007	.013	.033	59	.01	2

PYRAMID AND WINNEMUCCA LAKES BASIN
10336686 CARNELIAN CREEK AT CARNELIAN BAY, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°13'37", long 120°04'50", in NE 1/4 NW 1/4 sec.22, T.16 N., R.17 E., Placer County, Hydrologic Unit 16050101, on right bank 0.1 mi east of Carnelian Bay Post Office at Highway 28.

DRAINAGE AREA.--2.93 mi².

PERIOD OF RECORD.--May to September 1999.

GAGE.--Water-stage recorder. Elevation of gage is 6,232 ft above sea level, from topographic map.

REMARKS.--Records fair except for flows below 0.2 ft³/s, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 32 ft³/s, May 22, 1999, gage height, 1.94 ft; minimum daily, 0.10 ft³/s, several days in July and August 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	6.1	3.9	.30	.10	.17
2	---	---	---	---	---	---	---	7.4	3.7	.25	.10	.16
3	---	---	---	---	---	---	---	6.2	3.3	.22	.10	.15
4	---	---	---	---	---	---	---	5.5	2.8	.16	.11	.15
5	---	---	---	---	---	---	---	7.2	2.4	.16	.10	.15
6	---	---	---	---	---	---	---	11	2.2	.17	.11	.14
7	---	---	---	---	---	---	---	15	1.9	.16	.10	.15
8	---	---	---	---	---	---	---	15	1.7	.15	.10	.15
9	---	---	---	---	---	---	---	14	1.6	.15	.10	.17
10	---	---	---	---	---	---	---	14	1.4	.13	.12	.16
11	---	---	---	---	---	---	---	17	1.3	.12	.12	.16
12	---	---	---	---	---	---	---	20	1.2	.11	.11	.15
13	---	---	---	---	---	---	---	18	1.1	.12	.11	.17
14	---	---	---	---	---	---	---	14	1.0	.15	.11	.17
15	---	---	---	---	---	---	---	12	1.0	.12	.10	.17
16	---	---	---	---	---	---	---	12	.94	.12	.10	.16
17	---	---	---	---	---	---	---	14	.87	.12	.11	.18
18	---	---	---	---	---	---	---	15	.82	.11	.15	.20
19	---	---	---	---	---	---	---	16	.75	.11	.14	.20
20	---	---	---	---	---	---	---	17	.68	.11	.14	.19
21	---	---	---	---	---	---	---	18	.66	.11	.14	.18
22	---	---	---	---	---	---	---	19	.64	.11	.15	.19
23	---	---	---	---	---	---	---	19	.61	.11	.15	.20
24	---	---	---	---	---	---	---	19	.57	.11	.15	.19
25	---	---	---	---	---	---	---	21	.52	.11	.15	.17
26	---	---	---	---	---	---	---	19	.48	.10	.15	.18
27	---	---	---	---	---	---	---	14	.44	.11	.15	.21
28	---	---	---	---	---	---	---	11	.41	.10	.15	.24
29	---	---	---	---	---	---	---	7.4	.41	.11	.15	.25
30	---	---	---	---	---	---	---	5.5	.34	.11	.15	.22
31	---	---	---	---	---	---	---	4.5	---	.10	.16	---
TOTAL	---	---	---	---	---	---	---	413.8	39.64	4.22	3.88	5.33
MEAN	---	---	---	---	---	---	---	13.3	1.32	.14	.13	.18
MAX	---	---	---	---	---	---	---	21	3.9	.30	.16	.25
MIN	---	---	---	---	---	---	---	4.5	.34	.10	.10	.14
AC-FT	---	---	---	---	---	---	---	821	79	8.4	7.7	11

PYRAMID AND WINNEMUCCA LAKES BASIN
10336688 FIRST CREEK NEAR CRYSTAL BAY, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'00", long 119°59'18", in NE 1/4 SW 1/4 sec.17, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on left bank, 20 ft upstream of culvert on State Highway 28, 400 ft upstream of mouth, 1.6 mi northeast of Crystal Bay, and 2.2 mi west of Incline Village.

DRAINAGE AREA.--1.09 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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE,	BARO-	OXYGEN,		SPE-		
		INST.	METRIC	DIS-		CIFIC		
		CUBIC	PRES-	SOLVED				
		FEET	SURE	(PER-	OXYGEN,	CON-	TEMPER-	TEMPER-
		(MM		CENT	DIS-	DUCT-	ATURE	ATURE
		OF		SATUR-	SOLVED	ANCE	AIR	WATER
		SECOND	HG)	ATION)	(MG/L)	(US/CM)	(DEG C)	(DEG C)
		(00061)	(00025)	(00301)	(00300)	(00095)	(00020)	(00010)
MAR								
25...	1405	3.0	--	--	--	82	10.5	4.5
APR								
15...	1430	2.1	--	--	--	74	12.5	5.0
MAY								
06...	1650	4.0	--	--	--	50	14.0	5.0
12...	1115	5.0	--	--	--	53	12.0	4.5
19...	1650	5.0	--	--	--	49	13.5	6.0
24...	1520	6.6	--	--	--	47	13.5	7.0
JUN								
02...	1515	5.0	--	--	--	49	5.0	5.5
09...	1645	4.0	602	100	9.6	52	13.0	7.0
SEP								
15...	1415	.33	--	--	--	83	20.0	10.0
DATE		NITRO-	NITRO-	NITRO-	PHOS-		IRON,	SEDI-
		GEN,	GEN,AM-	GEN,	PHORUS		BIO.	MENT,
		AMMONIA	MONIA +	NO2+NO3	ORTHO,			DIS-
		DIS-	ORGANIC	DIS-	DIS-	PHOS-	REACT-	CHARGE,
		SOLVED	TOTAL	SOLVED	SOLVED	TOTAL	IVE	SUS-
		(MG/L	(MG/L	(MG/L	(MG/L	(MG/L	TOTAL	PENDE
		AS N)	AS N)	AS N)	AS P)	AS P)	(UG/L	(T/DAY)
		(00608)	(00625)	(00631)	(00671)	(00665)	(46568)	(80155)
MAR								
25...	.002	.20	.009	.011	.073	1400	.45	55
APR								
15...	.001	.14	.014	.010	.049	710	.10	17
MAY								
06...	.001	.54	.007	.011	.145	3680	1.1	102
12...	.002	.13	.009	.010	.043	633	.42	31
19...	.001	.26	.004	.011	.095	840	.68	50
24...	.004	.38	.014	.012	.144	1820	1.8	101
JUN								
02...	.001	.09	.010	.008	.036	269	.27	20
09...	.002	.05	.009	.009	.034	580	.12	11
SEP								
15...	.001	.07	.006	.012	.027	236	.004	4

PYRAMID AND WINNEMUCCA LAKES BASIN
10336691 SECOND CREEK AT LAKESHORE DRIVE NEAR CRYSTAL BAY, NV
(Lake Tahoe Interagency Monitoring Program)

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
MAR								
25...	1420	1.0	--	--	--	91	11.0	4.5
APR								
15...	1525	.53	--	--	--	82	14.0	5.5
MAY								
06...	1700	1.6	--	--	--	51	14.5	6.0
12...	1000	1.9	--	--	--	56	14.0	4.5
19...	1710	1.6	--	--	--	45	13.0	6.5
24...	1625	.86	--	--	--	39	14.0	6.5
JUN								
02...	1540	1.0	--	--	--	41	6.5	5.5
09...	1710	1.0	602	101	9.7	43	12.0	7.0
SEP								
15...	1525	.07	--	--	--	72	22.0	11.0

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR								
25...	.002	.35	.010	.015	.138	2160	.22	82
APR								
15...	.001	.44	.013	.013	.261	3780	.29	200
MAY								
06...	.001	.83	.009	.018	.442	6430	2.7	636
12...	.002	.14	.007	.016	.061	852	.17	34
19...	.001	.33	.003	.017	.156	1850	.91	210
24...	.003	.77	.013	.019	.344	3960	.50	215
JUN								
02...	<.001	.07	.002	.015	.038	376	.11	42
09...	.001	.08	.005	.016	.038	271	.06	23
SEP								
15...	.002	.11	.005	.023	.048	390	.0006	3

PYRAMID AND WINNEMUCCA LAKES BASIN

10336692 WOOD CREEK ABOVE JENNIFER STREET NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
MAR								
26...	1520	2.0	--	--	--	52	7.0	2.5
APR								
16...	1255	3.0	--	--	--	51	10.0	3.0
MAY								
11...	1500	8.7	--	--	--	44	14.0	3.5
20...	1425	10	--	--	--	42	13.5	6.0
24...	1545	15	--	--	--	38	13.0	4.5
JUN								
02...	1520	9.0	580	100	10.0	42	4.0	4.0
10...	1255	8.0	--	--	--	45	16.0	8.5
SEP								
15...	1200	1.4	--	--	--	59	21.5	7.5

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR								
26...	.002	.16	.071	.018	.062	685	.18	33
APR								
16...	<.001	.12	.073	.015	.034	273	.09	11
MAY								
11...	.001	.08	.032	.011	.055	638	3.6	155
20...	.002	.25	.026	.015	.203	2180	8.5	314
24...	.001	.17	.023	.016	.146	1630	17	429
JUN								
02...	.001	.06	.024	.015	.037	425	1.1	45
10...	.001	.04	.010	.016	.039	376	.76	35
SEP								
15...	.002	.05	.014	.019	.036	192	.02	4

PYRAMID AND WINNEMUCCA LAKES BASIN
10336694 WOOD CREEK AT MOUTH NEAR CRYSTAL BAY, NV
(Lake Tahoe Interagency Monitoring Program)

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR							
26...	1650	3.1	64	7.0	3.5	.005	.31
APR							
15...	1615	3.4	61	13.0	4.5	<.001	.11
MAY							
06...	1740	9.9	42	10.0	5.0	.004	.83
11...	1800	8.5	46	11.5	4.5	.002	.37
20...	1550	12	45	14.5	7.0	.002	.30
24...	1800	16	39	11.5	5.5	.001	.79
JUN							
02...	1810	9.4	43	3.5	4.5	<.001	.08
10...	1345	8.0	47	15.5	8.5	.002	.05
SEP							
15...	1630	1.3	64	22.5	10.0	.001	.05

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)
MAR						
26...	.040	.049	.175	2370	.50	60
APR						
15...	.047	.030	.072	691	.27	29
MAY						
06...	.030	.014	.403	6590	8.9	332
11...	.022	.010	.117	1620	2.9	129
20...	.018	.014	.196	2470	5.2	161
24...	.015	.014	.477	7790	19	448
JUN						
02...	.017	.014	.032	310	1.3	53
10...	.008	.015	.055	539	.45	21
SEP						
15...	.007	.018	.035	268	.01	4

PYRAMID AND WINNEMUCCA LAKES BASIN

103366958 THIRD CREEK BELOW UNNAMED TRIBUTARY NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°16'47", long 119°56'46", in NW¹/₄ SE¹/₄ 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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
MAR								
26...	1420	3.7	--	--	--	50	6.0	3.0
APR								
16...	1155	4.8	--	--	--	52	6.0	3.0
MAY								
11...	1600	13	--	--	--	38	11.5	2.5
20...	1330	19	--	--	--	36	14.5	3.5
24...	1620	40	--	--	--	29	11.5	2.5
JUN								
02...	1410	25	572	102	10.4	32	2.0	2.5
10...	1205	24	--	--	--	36	14.5	6.0
SEP								
13...	1440	2.7	--	--	--	58	19.0	11.5

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR								
26...	.003	.05	.054	.011	.024	332	.05	5
APR								
16...	.001	.06	.046	.008	.021	398	.05	4
MAY								
11...	.002	.05	.032	.006	.026	462	.54	15
20...	.002	.15	.019	.005	.039	498	.86	17
24...	.002	.18	.016	.004	.045	964	5.2	48
JUN								
02...	<.001	.06	.016	.005	.020	309	.54	8
10...	.001	.05	.006	.006	.021	271	.25	4
SEP								
13...	.002	.04	.009	.017	.029	71	.01	2

PYRAMID AND WINNEMUCCA LAKES BASIN

103366965 THIRD CREEK AT VILLAGE BOULEVARD AT INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

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 ft 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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
MAR								
26...	1220	6.0	--	--	--	67	8.0	4.5
APR								
16...	1010	6.0	--	--	--	64	9.5	2.5
MAY								
11...	1715	19	--	--	--	44	11.5	3.0
20...	1640	24	--	--	--	38	14.0	4.0
24...	1730	45	--	--	--	31	13.5	3.0
JUN								
02...	1650	27	585	100	10.3	35	5.5	3.0
10...	1030	24	--	--	--	38	13.0	4.0
SEP								
13...	1605	3.0	--	--	--	63	19.5	11.5

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO- REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)
MAR								
26...	.004	.06	.036	.010	.027	648	.10	6
APR								
16...	.001	.09	.039	.006	.025	618	.08	5
MAY								
11...	.002	.11	.026	.003	.025	518	.94	18
20...	.002	.19	.019	.005	.039	1260	2.3	35
24...	.002	.15	.014	.004	.041	944	13	106
JUN								
02...	<.001	.09	.016	.006	.021	381	1.8	25
10...	.001	.08	.006	.006	.020	307	.32	5
SEP								
13...	.002	.06	.008	.014	.031	330	.02	3

PYRAMID AND WINNEMUCCA LAKES BASIN
10336698 THIRD CREEK NEAR CRYSTAL BAY, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'26", long 119°56'44", in SW 1/4 NE 1/4 sec.22, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 50 ft upstream from culvert on Lakeshore Boulevard, 600 ft upstream from mouth, and 3 mi east of Crystal Bay.

DRAINAGE AREA.--6.05 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 good except for estimated daily discharges, which are poor. One transmountain diversion to Washoe Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin. Flow temporarily diverted from Incline Creek into Third Creek, August 23, 1999 to October 1, 1999, for Incline Creek restoration project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft³/s, June 18, 1982, gage height, 3.40 ft; maximum gage height, 3.77 ft, January 23, 1973; minimum daily, 0.66 ft³/s, September 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 25	1745	*63	*2.94	July 13	1800	51	2.83
June 19	1945	60	2.92				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	7.6	8.0	4.5	5.5	6.4	7.4	14	39	26	5.2	10
2	5.4	6.8	6.9	4.5	e5.2	6.1	6.8	15	35	25	5.1	10
3	6.2	6.7	6.9	4.5	5.2	6.5	6.7	13	30	22	5.1	9.9
4	5.5	6.4	e6.5	4.5	5.3	5.9	e6.7	12	26	21	5.0	9.5
5	4.7	6.3	e6.5	4.5	5.2	5.5	6.7	13	27	20	5.1	9.1
6	4.5	6.1	e6.4	4.5	5.2	5.5	e6.2	18	30	19	5.1	9.0
7	4.4	6.7	e6.2	4.4	e5.2	5.4	6.2	21	33	18	5.4	8.8
8	4.3	6.8	e6.0	4.3	e5.2	5.2	6.2	21	31	15	5.1	8.5
9	4.4	e6.7	5.9	4.3	e5.3	e5.4	e6.2	20	29	15	5.1	9.0
10	5.0	7.0	4.9	4.4	e5.3	e5.4	e6.2	19	31	15	5.4	9.0
11	4.6	7.2	4.8	4.5	e5.5	5.2	6.3	21	33	14	5.3	8.3
12	4.4	7.2	4.9	4.3	e5.8	5.4	7.2	25	36	13	5.1	8.1
13	4.5	7.0	4.9	4.4	5.1	5.8	9.1	26	39	16	4.8	8.3
14	4.4	7.2	4.8	4.3	5.0	6.2	11	24	40	16	4.8	8.4
15	4.5	7.0	4.8	4.6	4.9	6.0	11	21	40	11	4.6	8.8
16	4.6	6.9	4.9	5.0	5.2	6.7	11	21	39	9.8	4.6	8.7
17	4.7	7.5	4.9	4.8	5.7	7.5	13	25	40	10	4.4	8.5
18	4.6	7.0	4.9	e5.0	5.3	8.1	14	27	38	11	4.3	8.8
19	4.5	6.8	e5.3	e5.1	5.2	7.9	16	26	38	10	4.3	9.0
20	4.9	6.6	e5.3	e5.0	5.1	7.5	18	25	34	9.5	4.2	8.8
21	5.1	6.5	e5.3	e5.1	5.7	6.6	17	29	38	7.7	4.1	8.6
22	5.2	7.1	e5.3	e5.2	5.1	7.0	15	33	39	7.0	4.1	8.6
23	5.2	7.9	e5.3	e5.2	5.1	7.6	12	40	37	6.9	4.3	8.7
24	5.5	7.4	e5.2	e5.2	5.2	7.6	12	44	37	6.7	4.5	8.7
25	6.5	6.7	e5.2	e5.2	5.4	8.6	15	53	33	6.5	9.4	8.6
26	6.6	6.3	e5.2	e5.2	5.6	10	17	50	31	6.4	9.4	8.4
27	6.8	6.2	e5.1	e5.1	5.1	10	16	50	26	6.2	10	8.4
28	6.7	6.4	e5.1	e5.2	5.3	9.3	14	49	26	5.7	9.8	8.2
29	6.7	7.0	e4.9	e5.2	---	9.0	12	43	29	5.5	9.5	7.9
30	6.6	8.8	4.8	5.2	---	8.4	12	42	27	5.4	9.6	6.6
31	6.6	---	4.6	5.2	---	9.1	---	43	---	5.3	10	---
TOTAL	162.6	207.8	169.7	148.4	147.9	216.8	323.9	883	1011	385.6	182.7	261.2
MEAN	5.25	6.93	5.47	4.79	5.28	6.99	10.8	28.5	33.7	12.4	5.89	8.71
MAX	6.8	8.8	8.0	5.2	5.8	10	18	53	40	26	10	10
MIN	4.3	6.1	4.6	4.3	4.9	5.2	6.2	12	26	5.3	4.1	6.6
AC-FT	323	412	337	294	293	430	642	1750	2010	765	362	518

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1999, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	3.63	4.50	4.45	4.76	4.61	6.41	9.82	20.2	24.5	11.8	4.24	3.31																		
MAX	9.10	11.0	8.84	17.1	9.05	13.5	20.2	41.2	50.3	53.9	15.7	8.71																		
(WY)	1984	1985	1996	1977	1986	1986	1986	1997	1982	1995	1983	1999																		
MIN	.79	1.50	2.31	2.09	2.35	3.73	5.13	3.84	2.27	1.17	.94	1.02																		
(WY)	1978	1978	1995	1985	1978	1991	1988	1988	1992	1994	1994	1994																		

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1970 - 1999			
ANNUAL TOTAL	4289.6				4100.6							
ANNUAL MEAN	11.8				11.2				8.49			
HIGHEST ANNUAL MEAN									14.1			
LOWEST ANNUAL MEAN									2.92			
HIGHEST DAILY MEAN	61 Jun 25				53 May 25				99 Jun 19 1982			
LOWEST DAILY MEAN	3.6 Feb 23				4.1 Aug 21				.66 Oct 13 1977			
ANNUAL SEVEN-DAY MINIMUM	3.6 Feb 21				4.2 Aug 17				.67 Oct 13 1977			
INSTANTANEOUS PEAK FLOW					63 May 25				150 Jun 18 1982			
INSTANTANEOUS PEAK STAGE					2.94 May 25				3.77 Jan 23 1973			
ANNUAL RUNOFF (AC-FT)	8510				8130				6150			
10 PERCENT EXCEEDS	29				28				21			
50 PERCENT EXCEEDS	6.5				6.7				4.6			
90 PERCENT EXCEEDS	4.1				4.6				1.9			

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1978-1984, 1988 to current year.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Third Creek flow was increased from August 23, 1999 to October 1, 1999 due to diversion of Incline Creek into Third Creek about $\frac{1}{4}$ mi upstream. Streamflow and water quality for this time period are not representative of typical conditions for Third Creek.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, DIS- SOLVED AMMONIA (MG/L AS N) (00608)
OCT									
26...	1210	7.0	--	--	--	68	10.5	5.0	.002
NOV									
23...	1515	9.0	--	--	--	78	3.0	3.0	.005
DEC									
21...	1435	7.0	--	--	--	74	-4.0	.0	<.001
JAN									
21...	1710	5.2	--	--	--	77	-2.5	.0	.003
FEB									
22...	1450	3.7	--	--	--	99	4.0	2.0	.003
MAR									
16...	1620	6.0	--	--	--	136	9.0	4.0	.003
22...	1545	5.6	--	--	--	131	6.0	5.0	.003
APR									
13...	1505	11	--	--	--	136	11.5	7.0	<.001
15...	1840	15	--	--	--	112	8.5	5.0	.001
19...	1555	19	--	--	--	98	13.0	7.5	.003
MAY									
05...	1650	14	--	--	--	91	11.5	8.0	.003
06...	1810	22	--	--	--	70	9.5	6.5	<.001
11...	1255	19	--	--	--	68	14.0	6.5	.002
11...	1910	23	--	--	--	64	11.0	4.5	.002
19...	1340	24	--	--	--	56	17.0	7.0	.001
19...	1935	30	--	--	--	47	8.5	4.5	.002
20...	1730	28	--	--	--	49	13.5	5.5	.002
24...	1135	37	--	--	--	42	15.5	5.0	.003
24...	1750	48	--	--	--	39	14.0	4.5	.003
25...	2005	60	--	--	--	36	12.5	3.5	.003
27...	1350	41	--	--	--	38	21.0	7.5	<.001
JUN									
02...	1815	31	597	101	10.5	42	3.5	3.5	.001
09...	1925	30	--	--	--	41	11.5	6.0	.002
15...	1430	35	--	--	--	38	23.0	10.5	.002
24...	1600	35	--	--	--	39	18.0	13.0	.001
JUL									
09...	1410	13	--	--	--	53	21.0	13.0	<.001
13...	1830	32	--	--	--	84	15.0	12.0	.187
14...	1200	15	--	--	--	60	21.0	13.0	.002
AUG									
17...	1410	4.2	--	--	--	73	22.5	11.5	.005
SEP									
14...	1315	9.0	--	--	--	79	21.5	9.5	.002

PYRAMID AND WINNEMUCCA LAKES BASIN
10336698 THIRD CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
26...	.10	.003	.010	.021	342	.04	2	--
NOV								
23...	.14	.003	.010	.041	865	.24	10	--
DEC								
21...	.11	.025	.006	.019	381	.02	1	--
JAN								
21...	.11	.022	.008	.032	634	.08	6	--
FEB								
22...	.09	.025	.007	.022	664	.05	5	--
MAR								
16...	.49	.047	.006	.171	4770	1.2	75	--
22...	.21	.033	.007	.066	1920	.42	28	--
APR								
13...	.41	.038	.009	.107	2840	1.7	58	--
15...	.49	.057	.018	.136	2790	2.6	65	--
19...	1.0	.056	.014	.321	7090	10	199	--
MAY								
05...	.24	.023	.008	.048	1580	1.2	32	--
06...	.51	.027	.007	.180	4480	9.9	169	--
11...	.11	.019	.007	.027	635	1.1	21	--
11...	1.4	.019	.006	.034	922	3.7	60	--
19...	.10	.006	.007	.032	690	1.2	18	--
19...	.28	.014	.006	.127	2720	9.4	116	--
20...	.28	.015	.005	.060	2020	4.9	66	--
24...	.12	.020	.006	.070	1370	5.4	53	--
24...	.21	.020	.006	.097	1980	13	103	--
25...	.04	.026	.004	.127	3210	24	147	--
27...	.25	.015	.006	.048	1040	6.3	57	--
JUN								
02...	.09	.013	.006	.024	670	1.0	12	--
09...	.06	.009	.005	.024	461	1.1	14	--
15...	.07	.005	.007	.037	711	2.1	22	--
24...	.13	.003	.008	.025	675	2.4	26	--
JUL								
09...	.06	.007	.005	.030	429	.18	5	--
13...	11	.061	.032	5.16	69000	279	3210	88
14...	.10	.008	.007	.045	787	.73	18	--
AUG								
17...	.06	.010	.011	.029	423	.05	4	--
SEP								
14...	.12	.014	.011	.044	938	.24	10	--

PYRAMID AND WINNEMUCCA LAKES BASIN

103366993 INCLINE CREEK ABOVE TYROL VILLAGE NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'32", long 119°55'20", in SE 1/4 SE 1/4 sec.11, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 900 ft upstream from Tirol Drive, and about 1.5 mi northeast of Incline Village.

DRAINAGE AREA.--2.78 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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft³/s, gage height, 2.62 ft, June 26, 1995 and January 2, 1997, maximum gage height, 2.71 ft; minimum daily, 0.18 ft³/s, August 19, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft³/s and maximum (*):

Discharge Gage height				Discharge Gage height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
March 26	1845	6.6	1.70	May 27	1800	*35	*2.42
April 20	1830	12	1.86				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	4.0	3.7	e2.6	e2.6	2.3	3.1	9.3	22	11	6.3	3.8
2	3.8	3.8	3.4	e2.6	e2.6	2.5	3.1	8.6	21	10	6.1	4.2
3	3.8	3.7	3.4	e2.5	e2.6	2.5	2.9	7.0	19	9.9	6.0	4.1
4	3.7	3.7	3.4	e2.5	e2.6	2.3	2.9	6.1	18	9.9	6.0	3.9
5	3.6	3.6	e3.4	e2.5	e2.6	2.2	2.8	7.2	18	11	6.0	3.8
6	3.6	3.6	e3.4	e2.5	e2.6	2.2	2.7	11	18	9.9	6.7	3.7
7	3.6	3.7	e3.4	e2.6	e2.6	2.2	2.6	13	18	10	6.2	3.6
8	3.5	3.6	e3.4	e2.6	e2.6	2.2	2.6	12	17	9.9	5.6	3.5
9	3.5	3.7	e3.4	e2.6	e2.6	2.2	2.6	12	17	9.2	5.4	3.7
10	3.5	3.6	e3.4	e2.6	e2.6	2.1	2.4	12	17	9.0	5.6	3.5
11	3.4	3.6	e3.3	e2.6	e2.6	2.2	2.5	13	17	8.7	5.1	3.1
12	3.4	3.5	e3.2	e2.6	e2.5	2.3	3.4	15	17	8.3	4.9	3.0
13	3.4	3.6	e3.1	e2.6	e2.5	2.5	4.9	17	18	8.5	4.7	3.0
14	3.4	3.7	3.0	e2.6	e2.5	2.5	4.8	16	18	8.2	4.5	3.0
15	3.4	3.5	2.9	e2.6	e2.5	2.5	4.6	13	18	7.9	4.5	2.9
16	3.4	3.5	3.1	e2.7	e2.5	2.6	5.4	14	18	7.7	4.3	2.9
17	3.5	3.5	3.1	e2.6	e2.5	3.0	6.5	15	18	7.5	4.3	2.9
18	3.4	3.4	3.1	2.7	2.4	3.2	7.3	15	18	7.5	4.3	3.0
19	3.4	3.4	3.0	2.5	2.4	3.2	8.6	16	17	7.5	4.1	3.0
20	3.4	3.4	e3.0	2.6	2.4	2.8	9.4	17	17	7.5	4.0	2.9
21	3.4	3.4	e3.0	e2.6	2.4	2.7	9.2	17	17	7.5	4.0	2.9
22	3.4	3.5	e3.0	e2.6	2.3	2.8	7.9	20	16	7.4	4.2	2.9
23	3.2	4.0	e3.0	e2.6	2.3	3.1	6.4	21	16	7.3	4.1	2.9
24	3.4	3.7	e3.0	e2.6	2.4	3.3	6.3	22	15	7.3	3.8	2.9
25	3.6	3.4	e3.0	e2.6	2.3	4.0	8.5	26	14	7.2	3.7	2.8
26	3.9	3.4	e2.9	e2.6	2.2	4.9	8.4	28	13	7.1	3.8	2.7
27	3.8	3.4	e2.9	e2.6	2.3	4.8	8.1	29	13	6.9	3.9	2.7
28	3.6	3.4	e2.9	e2.6	2.4	4.4	7.4	28	12	6.6	3.7	2.7
29	3.5	3.5	e2.8	e2.6	---	4.1	6.4	25	11	6.5	3.6	2.7
30	3.6	4.1	e2.8	e2.6	---	3.9	7.3	24	11	6.4	3.7	2.6
31	3.7	---	e2.6	e2.6	---	3.3	---	23	---	6.3	3.7	---
TOTAL	109.8	107.9	97.0	80.3	69.4	90.8	161.0	512.2	499	255.6	146.8	95.3
MEAN	3.54	3.60	3.13	2.59	2.48	2.93	5.37	16.5	16.6	8.25	4.74	3.18
MAX	4.0	4.1	3.7	2.7	2.6	4.9	9.4	29	22	11	6.7	4.2
MIN	3.2	3.4	2.6	2.5	2.2	2.1	2.4	6.1	11	6.3	3.6	2.6
AC-FT	218	214	192	159	138	180	319	1020	990	507	291	189

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2.15	2.19	2.09	2.44	2.14	3.03	5.41	10.8	11.7	6.81
MAX	3.99	3.60	3.57	7.42	3.94	5.39	11.0	21.6	26.8	22.5
(WY)	1996	1999	1996	1997	1996	1997	1997	1995	1995	1995
MIN	.54	.75	.83	.72	.92	1.16	2.56	1.60	.77	.61
(WY)	1993	1993	1993	1991	1993	1991	1991	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

	1998	1999	1990-1999
ANNUAL TOTAL	2328.4	2225.1	
ANNUAL MEAN	6.38	6.10	4.81
HIGHEST ANNUAL MEAN			7.56
LOWEST ANNUAL MEAN			1.02
HIGHEST DAILY MEAN	27 Jun 20	29 May 27	36 Jun 26 1995
LOWEST DAILY MEAN	1.7 Feb 8	2.1 Mar 10	.18 Aug 19 1992
ANNUAL SEVEN-DAY MINIMUM	1.7 Feb 7	2.2 Mar 5	.21 Aug 1 1992
INSTANTANEOUS PEAK FLOW		35 May 27	52 Jun 26 1995
INSTANTANEOUS PEAK STAGE		2.42 May 27	2.71 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	4620	4410	3490
10 PERCENT EXCEEDS	15	16	12
50 PERCENT EXCEEDS	3.7	3.6	2.8
90 PERCENT EXCEEDS	2.1	2.5	.71

e Estimated

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	
		(00061)	(00025)	(00301)	(00300)	(00095)	(00020)	(00010)	
OCT									
26...	1010	3.4	--	--	--	37	9.5	3.0	
NOV									
23...	1315	5.4	--	--	--	32	3.0	1.5	
DEC									
21...	1235	3.0	--	--	--	34	-4.5	.0	
JAN									
21...	1420	3.4	--	--	--	32	-1.0	.0	
FEB									
22...	1110	3.0	--	--	--	35	1.0	2.0	
MAR									
22...	1230	2.1	--	--	--	38	8.0	2.5	
APR									
15...	1425	3.8	--	--	--	34	10.0	2.5	
20...	1435	8.5	--	--	--	33	10.0	3.0	
MAY									
05...	1405	7.5	--	--	--	32	13.5	3.5	
06...	1925	16	--	--	--	23	7.0	2.5	
12...	1355	17	--	--	--	28	14.0	4.0	
19...	1510	18	--	--	--	28	15.5	4.5	
24...	1310	25	--	--	--	27	16.5	4.5	
27...	1130	25	--	--	--	26	16.5	4.5	
JUN									
02...	1325	21	--	--	--	25	3.0	3.5	
09...	1500	17	589	102	9.7	26	15.5	6.5	
15...	1000	18	--	--	--	26	19.0	5.5	
24...	1320	15	--	--	--	27	20.0	9.0	
JUL									
09...	1000	9.7	--	--	--	30	14.0	6.5	
AUG									
17...	1035	5.7	--	--	--	34	15.0	6.5	
SEP									
13...	1105	2.7	--	--	--	36	18.5	6.0	
DATE		NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT									
26...	.004	.09	.003	.010	.019	129	.01	1	
NOV									
23...	.012	.21	.012	.011	.058	862	.20	14	
DEC									
21...	<.001	.09	.040	.009	.021	157	.02	2	
JAN									
21...	.003	.10	.041	.013	.028	219	.04	4	
FEB									
22...	.002	.04	.064	.011	.021	146	.02	2	
MAR									
22...	.002	.05	.062	.008	.018	116	.01	1	
APR									
15...	.001	<.04	.085	.008	.024	173	.02	2	
20...	.001	.23	.088	.008	.042	423	.21	9	
MAY									
05...	.002	.14	.059	.008	.022	195	.10	5	
06...	<.001	.88	.050	.009	.150	2740	4.8	109	
12...	.002	.22	.049	.009	.069	1090	2.0	44	
19...	.001	.16	.021	.010	.048	451	2.4	49	
24...	.002	.25	.043	.011	.061	1300	3.3	49	
27...	<.001	.13	.034	.009	.046	677	2.5	38	
JUN									
02...	<.001	.07	.029	.010	.024	176	.85	15	
09...	.001	.06	.021	.010	.023	143	.68	15	
15...	.002	.06	.016	.012	.037	334	.53	11	
24...	.002	.10	.008	.012	.030	272	.36	9	
JUL									
09...	.001	<.04	.011	.010	.023	158	.10	4	
AUG									
17...	.003	.05	.013	.012	.027	155	.05	3	
SEP									
13...	.002	.04	.013	.011	.026	133	.02	3	

PYRAMID AND WINNEMUCCA LAKES BASIN
103366995 INCLINE CREEK AT HIGHWAY 28 AT INCLINE VILLAGE, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'44", long 119°56'17", in SE 1/4 SE 1/4 sec.15, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on left bank, 200 ft downstream from culverts on State Highway 28, 0.6 mi upstream from Lake Tahoe, and 1.8 mi southeast of intersection of State Highways 431 and 28.

DRAINAGE AREA.--4.47 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 good except estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143 ft³/s, January 2, 1997, gage height, 3.25 ft, maximum gage height, 3.51 ft, July 11, 1996; minimum daily, 0.56 ft³/s, August 20, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft³/s, May 27, gage height, 2.48 ft; minimum daily, 3.5 ft³/s, September 27-30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.2	5.2	3.8	3.6	4.4	6.9	14	33	15	7.3	4.5
2	4.8	4.8	5.0	3.8	3.6	4.6	6.3	13	31	14	7.2	4.5
3	4.9	4.8	5.1	3.8	3.8	4.9	6.0	11	27	14	7.0	4.5
4	4.8	4.7	5.1	3.8	3.7	4.4	5.8	11	25	13	7.0	4.3
5	4.8	4.7	e4.7	3.8	3.6	4.2	5.6	13	25	13	7.0	4.2
6	4.9	4.7	e4.7	3.8	3.7	e4.2	5.3	17	25	12	7.7	4.1
7	4.7	4.9	e4.7	3.8	4.0	e4.1	5.1	18	24	12	7.4	4.1
8	4.5	4.7	4.4	3.8	3.9	e4.0	5.0	18	23	12	7.0	4.0
9	4.5	4.8	4.4	3.8	e3.9	3.9	4.8	17	22	12	7.1	4.1
10	4.5	4.7	4.3	3.8	e3.9	3.8	4.7	17	22	11	7.1	4.1
11	4.5	4.8	4.3	3.8	e3.8	3.8	5.2	18	22	11	6.3	4.0
12	4.4	4.7	4.3	3.7	3.7	3.9	6.6	23	22	11	6.0	3.8
13	4.3	4.8	4.4	3.7	3.7	4.3	8.2	22	22	11	5.7	3.8
14	4.4	4.9	4.2	3.7	3.7	4.8	8.9	20	23	11	5.6	3.8
15	4.4	4.8	4.2	3.9	3.7	4.7	9.3	19	23	10	5.4	3.7
16	4.4	4.8	4.4	3.9	3.7	5.3	11	19	23	9.9	5.3	3.7
17	4.4	4.9	4.4	3.9	3.9	6.3	12	22	22	9.8	5.2	3.7
18	4.4	4.7	4.4	4.4	3.7	7.1	14	22	22	9.6	5.1	3.9
19	4.4	4.6	4.2	4.0	3.7	7.1	16	23	21	9.5	5.0	3.9
20	4.2	4.5	e4.2	3.8	3.7	6.6	17	25	21	9.3	4.9	3.8
21	4.2	4.6	e4.2	4.1	3.6	5.8	17	26	20	9.1	4.8	3.7
22	4.1	4.7	e4.2	4.1	3.6	6.1	14	28	19	8.9	5.0	3.6
23	4.2	5.9	e4.1	4.1	3.7	6.9	12	31	19	8.7	5.0	3.7
24	4.2	5.0	e4.1	e4.0	3.8	7.3	12	32	19	8.6	4.7	3.7
25	4.4	4.8	4.1	e4.0	3.7	8.5	14	36	18	8.4	4.6	3.6
26	4.6	4.7	4.0	3.8	3.6	10	14	36	17	8.2	4.7	3.6
27	4.5	4.6	4.0	3.6	3.8	10	14	38	17	8.0	4.8	3.5
28	4.5	4.6	3.9	3.6	3.9	9.4	12	39	16	7.8	4.6	3.5
29	4.5	5.0	3.9	3.7	---	9.0	11	35	16	7.7	4.4	3.5
30	4.7	6.7	3.9	3.6	---	8.4	12	34	15	7.5	4.5	3.5
31	4.7	---	3.9	3.6	---	7.7	---	34	---	7.4	4.5	---
TOTAL	139.7	146.1	134.9	119.0	104.7	185.5	295.7	731	654	320.4	177.9	116.4
MEAN	4.51	4.87	4.35	3.84	3.74	5.98	9.86	23.6	21.8	10.3	5.74	3.88
MAX	4.9	6.7	5.2	4.4	4.0	10	17	39	33	15	7.7	4.5
MIN	4.1	4.5	3.9	3.6	3.6	3.8	4.7	11	15	7.4	4.4	3.5
AC-FT	277	290	268	236	208	368	587	1450	1300	636	353	231

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2.73	2.86	2.99	3.75	3.47	5.92	8.75	14.8	15.1	8.33
MAX	4.61	4.93	5.71	14.8	7.81	11.9	18.5	25.5	34.9	27.9
(WY)	1996	1997	1997	1997	1996	1997	1996	1995	1995	1995
MIN	.95	1.22	1.21	1.19	1.41	2.25	3.63	1.98	1.26	.87
(WY)	1993	1991	1993	1993	1991	1991	1991	1992	1992	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1990 - 1999
ANNUAL TOTAL	3440.8	3125.3	
ANNUAL MEAN	9.43	8.56	6.75
HIGHEST ANNUAL MEAN			10.7
LOWEST ANNUAL MEAN			1.54
HIGHEST DAILY MEAN	37 Jun 7	39 May 28	85 Jan 2 1997
LOWEST DAILY MEAN	2.9 Feb 25	3.5 Sep 27	.56 Aug 20 1992
ANNUAL SEVEN-DAY MINIMUM	3.0 Feb 21	3.6 Sep 24	.60 Aug 6 1992
INSTANTANEOUS PEAK FLOW		51 May 27	143 Jan 2 1997
INSTANTANEOUS PEAK STAGE		2.48 May 27	3.51 Jul 11 1996
ANNUAL RUNOFF (AC-FT)	6820	6200	4890
10 PERCENT EXCEEDS	22	21	17
50 PERCENT EXCEEDS	5.2	4.8	3.8
90 PERCENT EXCEEDS	3.3	3.7	1.1

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-	BARO-	OXYGEN,	OXYGEN,	SPE-	TEMPER-	TEMPER-	
		CHARGE,	METRIC	DIS-		CIFIC			
		INST.	PRES-	SOLVED		CON-			
		CUBIC	SURE	(PER-	SOLVED	DUCT-	ATURE	ATURE	
		FEET	(MM	CENT	(MG/L)	ANCE	(DEG C)	(DEG C)	
		PER	OF	SATUR-			AIR	WATER	
		SECOND	(HG)	ATION)					
		(00061)	(00025)	(00301)	(00300)	(00095)	(00020)	(00010)	
OCT									
26...	1120	5.1	--	--	--	48	9.5	4.5	
NOV									
23...	1355	8.5	--	--	--	48	6.0	2.5	
DEC									
21...	1325	7.0	--	--	--	47	-4.0	.0	
JAN									
21...	1535	4.4	--	--	--	51	.0	.5	
FEB									
22...	1230	3.6	--	--	--	57	3.0	2.0	
MAR									
16...	1430	6.1	--	--	--	98	8.5	3.5	
22...	1420	6.7	--	--	--	95	8.0	4.0	
APR									
15...	1530	9.6	--	--	--	86	12.0	5.5	
20...	1545	22	--	--	--	70	13.0	6.0	
MAY									
05...	1515	15	--	--	--	52	14.0	6.0	
06...	2020	27	--	--	--	40	8.0	4.0	
12...	1455	29	--	--	--	42	14.0	6.0	
19...	1805	33	--	--	--	36	13.5	5.0	
24...	1220	32	--	--	--	36	19.0	6.0	
27...	1225	36	--	--	--	34	20.0	6.0	
JUN									
02...	1635	32	--	--	--	32	6.5	4.5	
09...	1755	25	601	102	9.7	33	13.0	7.0	
15...	1145	29	--	--	--	32	23.0	7.0	
24...	1450	17	--	--	--	32	21.0	10.0	
JUL									
09...	1140	9.2	--	--	--	37	19.0	8.0	
AUG									
17...	1140	6.1	--	--	--	43	20.0	8.0	
SEP									
13...	1725	3.5	--	--	--	45	18.0	9.5	
		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO, REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT									
26...	.003	.07	.004	.011	.028	563	.08	6	
NOV									
23...	.001	.37	.019	.013	.145	2720	1.2	52	
DEC									
21...	.001	.05	.035	.007	.023	478	.06	3	
JAN									
21...	.007	.13	.035	.010	.036	782	.07	6	
FEB									
22...	.006	<.04	.041	.008	.021	736	.04	4	
MAR									
16...	.007	.13	.045	.013	.060	1220	.31	19	
22...	.006	.09	.039	.012	.036	921	1.7	95	
APR									
15...	<.001	.09	.052	.015	.045	898	.31	12	
20...	.004	.29	.060	.015	.106	2130	3.3	57	
MAY									
05...	.005	.17	.052	.010	.100	1720	1.2	31	
06...	.001	.72	.049	.011	.217	3620	12	161	
12...	.003	.43	.046	.011	.252	3970	13	170	
19...	.002	.24	.034	.011	.116	1620	8.8	99	
24...	.004	.21	.043	.012	.049	1150	4.2	49	
27...	<.001	.20	.035	.011	.053	1210	8.3	85	
JUN									
02...	<.001	.11	.024	.009	.026	308	3.2	37	
09...	.002	.05	.022	.011	.027	290	1.0	15	
15...	.002	.08	.015	.012	.037	476	2.3	29	
24...	.002	.26	.010	.013	.020	--	1.9	42	
JUL									
09...	.002	.08	.013	.007	.028	382	.15	6	
AUG									
17...	.007	.04	.017	.011	.032	445	.07	4	
SEP									
13...	.004	.06	.016	.012	.034	518	.03	3	

PYRAMID AND WINNEMUCCA LAKES BASIN

103366997 INCLINE CREEK TRIBUTARY AT COUNTRY CLUB DRIVE NEAR INCLINE VILLAGE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°15'52", long 119°56'32", in NW¹/₄ SE¹/₄ sec.10, T.16 N., R.18 E., Washoe County, Hydrologic Unit 16050101, on right bank, 20 feet upstream of culvert on Country Club Drive, 300 ft upstream of junction of Country Club Drive and Village Boulevard, and 1.2 mi north of Incline Village.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1989, water years 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	
MAR									
22...	1305	3.6	--	--	--	181	8.0	4.5	
APR									
15...	1700	6.4	--	--	--	150	11.0	4.0	
20...	1335	5.0	--	--	--	153	11.0	6.0	
MAY									
06...	2000	6.0	--	--	--	153	7.0	5.0	
12...	1255	6.0	--	--	--	159	15.5	9.5	
19...	1440	4.0	--	--	--	155	19.0	10.5	
24...	1400	4.0	--	--	--	154	15.5	10.5	
JUN									
02...	1415	5.0	--	--	--	147	8.5	6.5	
09...	1545	4.0	592	102	9.0	149	15.5	9.5	
SEP									
13...	1305	1.6	--	--	--	154	19.5	9.0	
DATE		NITRO-GEN, AMMONIA + DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, DIS-CHARGE, SUS-PENDE (T/DAY) (80155)	SEDI-MENT, SUS-PENDE (MG/L) (80154)
MAR									
22...	.002	.11	.113	.005	.033	645	.13	13	
APR									
15...	<.001	.24	.082	.007	.084	1710	1.3	73	
20...	.001	.39	.103	.011	.118	2900	1.9	141	
MAY									
06...	.001	.22	.050	.006	.057	1010	.78	48	
12...	.003	.14	.052	.006	.041	818	.60	37	
19...	.002	.12	.042	.009	.041	527	.29	27	
24...	.003	.39	.039	.009	.097	1980	.21	19	
JUN									
02...	.001	.10	.040	.007	.028	398	.19	14	
09...	.002	.39	.033	.009	.107	2230	.37	34	
SEP									
13...	.001	.06	.035	.008	.033	272	.03	6	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°14'25", long 119°56'38", in SW¹/₄ NE¹/₄ 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. Flow temporarily diverted to Third Creek beginning August 23, 1999 to October 1, 1999, for Incline Creek restoration project. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 179 ft³/s, January 2, 1997, gage height, 3.87 ft; minimum daily, 0.18 ft³/s, September 1, 3, 1999 (during diversion to Third Creek).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s, May 26, gage height, 2.75 ft; minimum daily, 0.18 ft³/s, September 1, 3.

CORRECTION.--Period of record maximum was published incorrectly in 1997 and 1998 annual reports station manuscripts. The correct maximum discharge for period of record is 179 ft³/s, not 164 ft³/s as previously published.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.2	8.6	e5.7	6.2	7.8	11	21	35	16	9.3	.18
2	6.8	6.5	8.2	e5.7	6.2	8.1	10	20	34	16	9.1	.20
3	6.7	6.5	e7.2	e5.6	6.5	8.6	9.9	18	32	15	8.8	.18
4	6.7	6.5	e7.1	e5.6	6.5	7.9	9.8	17	30	15	8.8	.23
5	6.6	6.5	e7.0	e5.5	6.3	7.4	9.3	20	29	14	8.8	.24
6	6.6	6.6	e6.7	e5.5	6.3	e7.1	8.9	23	29	14	9.6	.24
7	6.5	6.9	e6.4	5.4	e6.3	e6.9	8.6	25	27	13	9.2	.19
8	6.4	6.6	6.4	5.3	e6.3	e6.7	8.3	25	26	13	8.8	.25
9	6.3	6.4	6.1	5.3	e6.3	6.8	8.1	24	25	13	8.7	.24
10	6.3	6.4	6.3	5.4	e6.3	6.7	7.9	24	25	12	9.3	.27
11	6.3	6.6	6.2	5.4	e6.3	6.7	8.6	26	25	12	8.5	.23
12	6.2	6.5	6.3	5.3	e6.3	6.9	10	29	25	12	8.2	.26
13	6.2	6.7	6.4	5.2	e6.3	7.7	13	29	25	13	7.8	.20
14	6.2	6.7	6.3	5.2	6.3	8.4	14	27	25	13	7.6	.19
15	6.2	6.6	6.2	5.5	6.3	8.3	15	25	25	12	7.4	.19
16	6.2	6.5	6.5	5.6	6.3	9.5	17	25	25	12	7.0	.23
17	6.2	6.6	6.5	5.7	6.6	11	20	27	25	12	6.9	.30
18	6.2	6.4	6.4	6.5	6.4	12	22	27	24	12	6.8	.41
19	6.1	6.3	6.2	6.0	6.3	12	25	28	24	12	6.7	.43
20	6.0	6.2	6.1	5.7	6.2	11	26	30	23	11	6.5	.40
21	5.9	6.2	e6.1	5.9	6.2	10	26	31	23	11	6.4	.41
22	5.9	6.6	e6.1	5.9	6.2	11	23	33	22	11	6.7	.43
23	6.0	8.4	e6.1	6.1	6.2	12	19	35	22	11	6.6	.49
24	6.1	7.2	e6.0	6.8	6.5	13	18	36	21	11	3.6	.51
25	6.4	6.8	e6.0	7.3	6.4	15	22	40	20	10	.34	.54
26	6.4	6.5	e6.0	6.4	6.2	17	22	40	19	10	.31	.56
27	6.2	6.5	e6.0	6.2	6.6	17	21	41	18	10	.28	.56
28	6.1	6.4	e5.9	6.3	6.7	15	19	40	18	9.9	.26	.69
29	6.2	7.0	e5.9	6.3	---	15	17	37	17	9.7	.26	1.4
30	6.2	10	e5.8	6.5	---	14	18	37	17	9.7	.20	2.5
31	6.3	---	e5.7	6.3	---	13	---	36	---	9.5	.22	---
TOTAL	195.6	202.8	198.7	181.1	177.5	319.5	467.4	896	735	374.8	188.97	13.15
MEAN	6.31	6.76	6.41	5.84	6.34	10.3	15.6	28.9	24.5	12.1	6.10	.44
MAX	7.2	10	8.6	7.3	6.7	17	26	41	35	16	9.6	2.5
MIN	5.9	6.2	5.7	5.2	6.2	6.7	7.9	17	17	9.5	.20	.18
AC-FT	388	402	394	359	352	634	927	1780	1460	743	375	26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1999, BY WATER YEAR (WY)

	MEAN	4.01	4.29	4.49	5.53	5.47	8.44	11.3	17.7	16.5	8.80	4.84	3.74
MAX	6.79	6.76	8.78	19.6	12.2	16.9	23.1	36.7	48.4	35.0	14.4	8.66	
(WY)	1996	1999	1997	1997	1996	1997	1997	1996	1995	1995	1995	1995	
MIN	1.35	1.82	2.07	2.06	2.64	3.72	3.55	2.71	2.04	1.19	.99	.44	
(WY)	1989	1993	1993	1993	1991	1992	1988	1988	1988	1988	1988	1999	

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1970 - 1999
ANNUAL TOTAL	4658.5	3950.52	
ANNUAL MEAN	12.8	10.8	8.21
HIGHEST ANNUAL MEAN			15.4
LOWEST ANNUAL MEAN			2.51
HIGHEST DAILY MEAN	54 Jun 7	41 May 27	112 Jan 2 1997
LOWEST DAILY MEAN	4.0 Feb 26	.18 Sep 1	.18 Sep 1 1999
ANNUAL SEVEN-DAY MINIMUM	4.2 Feb 21	.21 Aug 30	.21 Aug 30 1999
INSTANTANEOUS PEAK FLOW		48 May 26	179 Jan 2 1997
INSTANTANEOUS PEAK STAGE		2.75 May 26	3.87 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	9240	7840	5940
10 PERCENT EXCEEDS	28	25	19
50 PERCENT EXCEEDS	7.6	6.8	5.2
90 PERCENT EXCEEDS	5.3	2.1	2.0

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1978-79, 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 1998 to current year.

INSTRUMENTATION.--Water temperature recorder since April 1998, two times per hour.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature represents water temperature at probe with 0.5°C. Interruptions in record are due to loss of hydrologic communication with stream channel and or instrument malfunction. Almost all flow was diverted from Incline Creek into Third Creek approximately 1/4 mi upstream of gage for period August 22, 1999 to October 1, 1999. Streamflow and water-quality for this time period are not representative of typical conditions for Incline Creek.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, September 7, 10, 11, 15, 1999; minimum, many days during winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C, September 7, 10, 11, 15; minimum, freezing point several days, November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT									
27...	0930	7.7	608	102	10.5	7.4	73	8.0	4.5
NOV									
23...	1445	9.3	--	--	--	--	91	2.5	3.0
DEC									
21...	1405	8.0	--	--	--	--	78	-4.0	.0
JAN									
21...	1620	6.5	--	--	--	--	83	-1.5	1.0
FEB									
22...	1350	6.9	--	--	--	--	97	3.0	2.0
MAR									
16...	1530	12	--	--	--	--	137	11.5	3.5
22...	1510	13	--	--	--	--	134	8.5	4.5
APR									
13...	1420	12	--	--	--	--	125	11.0	5.5
15...	1810	20	--	--	--	--	107	9.5	4.5
19...	1500	29	--	--	--	--	105	15.5	6.5
MAY									
05...	1605	22	--	--	--	--	89	13.5	7.0
06...	1845	32	--	--	--	--	67	10.0	5.5
12...	1545	35	--	--	--	--	64	14.5	7.0
19...	1300	25	--	--	--	--	68	17.0	6.5
19...	1840	35	--	--	--	--	57	13.0	6.0
24...	1035	33	--	--	--	--	56	14.0	5.5
24...	1715	39	--	--	--	--	51	15.0	6.5
25...	2030	42	--	--	--	--	50	12.0	6.0
27...	1310	37	--	--	--	--	52	21.5	7.5
JUN									
02...	1710	33	--	--	--	--	51	6.5	5.0
09...	1825	26	603	102	9.7	--	52	14.0	7.5
15...	1330	24	--	--	--	--	50	23.0	9.0
24...	1515	20	--	--	--	--	51	22.5	10.5
JUL									
09...	1340	15	--	--	--	--	65	23.0	10.0
13...	1805	27	--	--	--	--	115	16.5	12.5
14...	1140	12	--	--	--	--	70	21.5	10.0
AUG									
06...	1020	9.3	--	--	--	--	78	10.0	8.5
17...	1310	8.2	--	--	--	--	75	24.0	9.5
SEP									
14...	1225	.08	--	--	--	--	100	21.0	11.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999									
DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT									
27...	.004	.11	.003	.009	.020	359	.04	2	--
NOV									
23...	.002	.30	.019	.011	.097	1950	.80	32	--
DEC									
21...	<.001	.10	.041	.008	.020	424	.09	4	--
JAN									
21...	.005	.12	.041	.010	.033	790	.12	7	--
FEB									
22...	.006	.05	.044	.007	.024	865	.13	7	--
MAR									
16...	.006	.46	.055	.009	.112	2710	1.5	45	--
22...	.005	.17	.052	.008	.037	1200	.59	17	--
APR									
13...	.002	.19	.055	.008	.054	1220	.68	20	--
15...	<.001	.21	.057	.017	.082	1260	2.4	44	--
19...	<.001	.34	.060	.014	.097	2190	6.3	82	--
MAY									
05...	.004	.26	.049	.010	.092	1970	2.4	41	--
06...	.002	.71	.044	.010	.247	4610	11	132	--
12...	.003	.57	.043	.011	.297	6170	17	180	--
19...	.001	.11	.025	.010	.048	481	1.6	23	--
19...	.002	.35	.039	.010	.163	1710	7.9	84	--
24...	.004	.17	.035	.011	.047	1040	3.4	38	--
24...	.004	.27	.038	.011	.096	1980	10	95	--
25...	.004	.49	.046	.010	.099	1870	12	107	--
27...	<.001	.24	.033	.011	.064	1710	5.5	55	--
JUN									
02...	.002	.13	.029	.010	.032	432	2.5	28	--
09...	.001	.05	.021	.010	.028	365	1.3	19	--
15...	.003	.09	.015	.012	.036	504	.71	11	--
24...	.001	.11	.004	.012	.031	533	.71	13	--
JUL									
09...	<.001	.07	.013	.006	.041	524	.24	6	--
13...	.063	5.6	.039	.016	1.75	32100	68	944	72
14...	.003	.13	.017	.010	.041	562	.37	11	--
AUG									
06...	.011	.23	.055	.013	.058	972	.43	17	--
17...	.007	.17	.017	.010	.046	745	.15	7	--
SEP									
14...	.026	.09	.019	.014	.032	1220	.0006	3	--

PYRAMID AND WINNEMUCCA LAKES BASIN
10336700 INCLINE CREEK NEAR CRYSTAL BAY, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	9.5	7.0	8.0	5.0	2.5	4.0	1.5	.5	1.0	2.0	.5	1.5
2	8.5	6.5	7.5	3.5	1.5	2.5	3.0	1.0	2.0	2.0	.5	1.5
3	6.5	5.0	5.5	5.0	2.5	3.5	3.0	.5	2.0	2.0	1.0	1.5
4	6.5	3.5	5.0	4.5	2.5	3.5	.5	.0	.0	2.0	.5	1.0
5	6.5	4.0	5.0	3.5	2.0	2.5	.0	.0	.0	2.5	1.0	1.5
6	8.0	4.5	6.0	2.0	1.5	1.5	.0	.0	.0	2.5	1.0	1.5
7	7.5	5.0	6.0	2.5	1.5	2.0	.5	.0	.0	2.0	1.0	1.5
8	7.5	5.5	6.5	1.5	1.0	1.5	1.5	.5	1.0	1.5	.5	1.0
9	6.5	3.5	5.0	1.5	.0	.5	.5	.0	.5	2.0	.5	1.0
10	5.5	3.0	4.0	2.0	1.0	1.5	2.0	.5	1.0	2.0	.5	1.5
11	6.5	3.5	5.0	2.5	1.5	2.0	2.5	1.5	2.0	2.5	1.0	1.5
12	7.0	4.0	5.5	2.5	.0	1.5	3.0	1.5	2.0	2.5	1.0	1.5
13	7.0	5.0	6.0	4.0	1.5	2.5	3.0	2.0	2.5	2.5	1.5	1.5
14	6.5	4.0	5.5	4.5	2.0	3.0	2.0	1.0	1.5	3.0	1.0	2.0
15	6.0	4.0	5.0	4.5	2.5	3.0	2.5	1.5	2.0	3.5	1.5	2.5
16	4.0	2.5	3.5	4.5	2.0	3.0	4.0	2.5	3.0	2.5	1.0	2.0
17	4.5	2.0	3.5	3.5	1.5	2.5	3.5	1.5	2.5	3.0	2.0	2.5
18	5.0	2.5	3.5	2.5	.5	1.5	2.5	1.0	2.0	2.5	.5	1.5
19	6.0	3.5	4.5	2.0	.0	1.0	1.5	.0	.5	1.5	.0	1.0
20	6.0	4.0	5.0	2.5	.5	1.5	.0	.0	.0	.5	.0	.0
21	6.5	4.0	5.5	3.5	2.0	3.0	.0	.0	.0	1.0	.0	.5
22	6.0	4.0	5.0	3.5	2.0	2.5	.0	.0	.0	1.5	.5	1.0
23	6.0	4.0	5.0	3.5	1.0	3.0	.0	.0	.0	.5	.0	.0
24	5.5	4.0	5.0	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
25	4.5	3.5	4.0	3.0	1.0	2.0	1.5	.0	1.0	1.5	.0	.5
26	6.0	4.0	5.0	3.0	1.5	2.0	2.0	1.0	1.5	1.5	.5	1.0
27	6.0	4.0	5.5	3.0	2.0	2.5	2.0	1.0	1.5	1.0	.5	.5
28	6.5	5.5	6.0	2.5	1.5	2.0	2.5	1.5	2.0	1.5	.0	.5
29	5.5	3.0	5.0	2.0	.5	1.5	2.0	1.0	1.5	1.5	.0	1.0
30	3.5	2.0	3.0	3.5	.5	2.0	2.5	1.5	2.0	2.0	.5	1.5
31	4.5	1.5	3.0	---	---	---	2.5	1.0	2.0	2.0	1.0	1.5
MONTH	9.5	1.5	5.1	5.0	.0	2.2	4.0	.0	1.2	3.5	.0	1.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	1.0	3.5	1.5	2.5	2.5	.5	1.5	7.0	3.0	4.5
2	2.0	.5	1.0	3.5	1.0	2.0	3.0	.5	2.0	4.5	3.0	3.5
3	2.5	1.0	2.0	3.5	2.0	2.5	1.5	.5	1.0	4.0	2.0	3.0
4	3.0	2.0	2.0	3.0	1.0	2.0	3.5	.0	1.5	6.5	2.0	3.5
5	2.5	1.5	2.0	2.5	.5	1.5	2.0	.5	1.0	7.5	2.5	4.0
6	1.5	.5	1.0	3.0	1.0	2.0	2.5	.0	1.5	8.0	3.0	4.5
7	1.0	.0	.0	3.5	2.0	2.5	3.0	1.5	2.0	7.0	3.0	4.5
8	1.0	.0	.5	2.5	1.0	2.0	2.0	.5	1.0	6.5	2.5	4.0
9	.0	.0	.0	1.5	.0	.5	3.0	.0	1.0	6.5	2.5	4.0
10	.0	.0	.0	2.5	.0	1.0	3.0	.0	1.5	6.5	2.5	4.0
11	.5	.0	.0	3.0	.5	1.5	4.5	2.0	2.5	7.0	3.5	4.5
12	2.0	.5	1.0	3.0	.5	1.5	5.5	1.5	3.0	7.5	3.5	5.0
13	2.5	1.0	2.0	4.0	1.5	2.5	5.5	1.5	3.0	6.5	3.0	4.0
14	2.5	1.0	2.0	4.0	1.5	2.5	5.5	2.0	3.0	6.0	2.0	3.5
15	2.5	.5	1.5	3.5	2.0	2.5	6.0	2.0	3.5	6.5	2.0	4.0
16	2.5	1.5	2.0	4.0	1.5	2.5	6.0	2.0	3.5	7.0	2.5	4.5
17	2.5	1.0	2.0	4.0	1.5	2.5	6.0	2.5	4.0	8.0	3.0	4.5
18	2.5	.5	1.5	4.5	2.0	3.0	6.0	2.5	4.0	6.5	3.0	4.5
19	2.0	.5	1.0	3.5	2.5	3.0	7.0	3.0	4.0	8.0	3.0	5.0
20	2.5	.5	1.5	3.5	1.5	2.5	7.0	3.0	4.0	8.0	3.5	5.0
21	1.0	.0	1.0	4.0	1.5	2.5	6.5	3.0	4.0	8.5	3.5	5.5
22	2.0	1.0	1.5	4.5	1.0	2.5	5.0	2.0	3.0	8.5	3.5	5.5
23	3.0	1.5	2.0	4.5	2.0	3.0	4.0	2.0	3.0	8.5	4.0	5.5
24	3.5	1.5	2.0	4.0	2.0	3.0	5.5	2.5	4.0	7.5	4.5	5.5
25	2.0	.5	1.5	5.0	2.5	3.5	7.5	3.0	4.5	9.0	4.0	6.0
26	2.5	.5	1.5	5.0	2.5	3.5	5.5	3.5	4.0	9.0	4.5	6.0
27	3.5	2.0	2.5	5.0	2.0	3.0	6.0	2.5	4.0	9.0	4.0	6.0
28	3.0	1.0	2.0	4.5	1.5	2.5	4.0	2.0	2.5	9.0	4.0	6.0
29	---	---	---	4.5	1.5	3.0	3.5	1.5	2.5	7.0	3.5	5.0
30	---	---	---	4.0	.0	2.0	7.0	2.5	4.0	9.0	4.0	6.0
31	---	---	---	2.5	.0	1.0	---	---	---	8.5	4.0	6.0
MONTH	3.5	.0	1.4	5.0	.0	2.3	7.5	.0	2.8	9.0	2.0	4.7

PYRAMID AND WINNEMUCCA LAKES BASIN
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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded contents, 12,320 acre-ft, February 19, 1986, elevation, 7,839.23 ft; minimum, 10,970 acre-ft, November 10-13, 1976, elevation, 7,835.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,130 acre-ft, June 3, 4, elevation, 7,838.81 ft; minimum, 11,820 acre-ft, March 30, elevation, 7,838.07 ft.

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

7,835	10,650	7,838	11,790
7,836	11,030	7,839	12,220
7,837	11,410	7,840	12,650

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12000	11950	---	---	11930	11910	11870	11920	12100	12000	11910	11850
2	12030	11950	12000	---	11920	11880	11870	11920	12100	12000	11900	11850
3	12020	11940	12010	11880	11910	11910	11880	11930	12130	12000	11900	11850
4	12010	11940	---	11880	11900	11900	11880	11920	12130	11980	11900	11850
5	12000	11940	---	11870	11890	11890	11910	11930	12110	11980	11900	11850
6	12010	11930	---	---	11900	11880	11920	11940	12110	11970	11870	11840
7	12010	11940	---	11870	11940	11880	11920	11940	12090	11970	11870	11850
8	12000	11940	---	11870	---	11860	11930	11940	12080	11970	11870	11850
9	12000	11930	11970	11870	---	11890	11920	11950	12080	11970	11870	11850
10	11990	11940	11960	11870	---	11890	11920	11950	12070	11970	11880	11850
11	11990	11940	11950	11860	---	11880	11910	11960	12070	11970	11880	11850
12	11980	11940	11940	11860	12000	11880	11900	11970	12070	11960	11880	11850
13	11970	11930	11940	11860	11980	11870	11900	11970	12070	11960	11880	11840
14	11970	11930	11940	11860	11960	11870	11890	11970	12070	11960	11880	11840
15	11970	11930	11940	11870	11940	11860	11890	11980	12070	11960	11880	11840
16	11960	11920	11930	---	11960	11860	11890	11980	12070	11950	11890	11840
17	11950	11940	11920	11870	11970	11860	11890	11990	12070	11940	11890	11830
18	11940	11940	11910	---	11950	11850	11890	12000	12070	11940	11890	11840
19	11940	11940	11920	---	11950	11850	11890	12000	12060	11940	11890	11840
20	11940	11930	---	---	11940	11870	11900	12010	12060	11940	11890	11850
21	11940	11920	---	---	11960	11860	11900	12020	12060	11930	---	11850
22	11940	11940	---	---	---	11860	11910	12030	12050	11930	---	11850
23	11940	11940	---	---	11930	11860	11910	12040	12040	11930	---	11850
24	11950	---	---	---	11910	11850	11910	12060	12030	11930	---	11850
25	11950	---	---	---	11930	11850	11910	12080	12030	11920	---	11850
26	11940	11950	---	---	11910	11850	11900	12090	12020	11920	11880	11850
27	11940	11940	---	---	11900	11840	11910	12100	12020	11920	---	11850
28	11940	---	---	---	11920	11850	11900	12100	12020	11920	---	11840
29	11940	---	---	11950	---	11850	11910	12100	12010	11910	---	11840
30	11940	11980	---	11940	---	11860	11920	12100	12000	11910	11860	11840
31	11930	---	---	11930	---	11870	---	12100	---	11910	11860	---
MAX	12030	---	---	---	---	11910	11930	12100	12130	12000	---	11850
MIN	11930	---	---	---	---	11840	11870	11920	12000	11910	---	11830
#	7838.33	7838.45	g7838.24	7838.33	7838.31	7838.19	7838.31	7838.72	7838.49	7838.29	7838.17	7838.12
##	-80	+50	-90	+40	-10	-50	+50	+180	-100	-90	-50	-20

CAL YR 1998 MAX 12160 MIN 11870 ## +20

WTR YR 1999 MAX 12130 MIN 11830 ## -170

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

Change in contents, in acre-feet.

g Interpolated.

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: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 7,760 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated at Marlette Lake 300 ft upstream. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70 ft³/s, February 20, 1986, gage height, 3.20 ft; no flow at times, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21 ft³/s, May 29, gage height, 2.60 ft; minimum daily, 0.27 ft³/s, September 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	4.4	7.8	e4.1	e5.2	6.2	4.0	5.6	16	5.5	1.6	.75
2	.71	4.3	7.4	e4.1	e5.4	6.1	3.8	6.1	14	5.4	1.7	.72
3	.65	4.2	7.5	e4.1	e5.4	6.7	4.3	6.6	13	5.1	1.6	.71
4	.59	4.0	7.3	e4.1	e5.5	6.3	4.3	6.5	12	4.5	1.6	.62
5	.42	3.9	7.3	e4.1	5.9	5.6	4.5	6.5	e11	4.2	1.6	.56
6	.35	3.9	7.3	e4.1	5.8	5.3	6.2	6.5	e11	3.9	1.6	.53
7	.34	4.8	7.1	e4.1	e6.0	5.2	6.5	7.0	e11	3.7	1.6	.49
8	2.8	4.2	6.5	e4.1	e6.2	5.2	6.7	7.3	e10	3.1	1.5	.48
9	4.3	3.9	6.0	e4.1	e6.6	5.2	6.4	8.2	e10	3.0	1.5	.52
10	4.2	3.9	5.8	e4.1	e7.0	5.1	6.0	7.7	e9.8	2.9	1.7	.58
11	4.0	4.2	5.5	e4.1	e7.2	4.9	5.8	7.8	8.5	3.0	1.9	.56
12	3.8	3.9	5.1	e4.1	e7.4	4.8	5.3	8.0	8.5	2.9	1.8	.51
13	3.7	3.8	5.0	e4.1	e7.6	4.6	5.0	8.7	8.1	2.9	1.8	.44
14	3.4	3.8	5.0	e4.1	e8.0	4.1	4.4	9.0	7.7	2.9	1.5	.44
15	3.3	3.7	5.0	e4.1	8.5	3.7	4.0	9.5	7.1	2.9	1.5	.39
16	3.2	3.6	4.7	e4.1	9.4	3.5	3.8	10	7.0	2.7	1.4	.37
17	2.9	4.2	4.4	e4.2	9.8	3.4	4.0	10	6.3	2.4	1.4	.37
18	2.8	4.0	4.2	e4.3	9.5	3.1	4.1	11	5.0	2.3	1.2	.39
19	2.7	3.9	4.3	e4.4	8.4	3.1	4.3	12	5.0	2.3	1.2	.41
20	2.7	3.9	e4.2	e4.5	8.9	3.4	4.5	13	5.0	2.2	1.2	.41
21	2.4	4.2	e4.2	e4.5	9.9	3.5	4.9	14	5.3	2.1	.81	.41
22	2.3	4.1	e4.2	e4.6	8.7	3.3	5.2	15	7.4	2.0	.70	.42
23	3.2	4.8	e4.2	e4.6	7.7	3.3	5.2	16	7.0	2.0	.79	.41
24	4.2	5.6	e4.2	e4.7	6.9	3.1	5.0	16	6.9	2.0	.75	.42
25	4.6	5.1	e4.2	e4.7	6.8	3.0	5.0	17	6.5	1.9	.70	.41
26	4.7	4.9	e4.2	e4.8	6.5	3.1	5.4	17	6.3	1.9	.71	.38
27	4.3	4.7	e4.2	e4.9	5.9	3.2	5.5	16	6.1	1.8	.76	.27
28	4.2	4.9	e4.2	e5.0	6.4	3.0	5.0	17	5.9	1.8	.75	.37
29	4.2	5.5	e4.2	e5.0	---	2.9	5.2	19	5.7	1.8	.71	.30
30	4.1	7.0	e4.1	e5.1	---	2.7	5.5	21	5.6	1.5	1.1	.31
31	3.7	---	e4.1	e5.2	---	3.9	---	20	---	1.5	.92	---
TOTAL	89.47	131.3	163.4	136.1	202.5	130.5	149.8	355.0	248.7	88.1	39.60	13.95
MEAN	2.89	4.38	5.27	4.39	7.23	4.21	4.99	11.5	8.29	2.84	1.28	.47
MAX	4.7	7.0	7.8	5.2	9.9	6.7	6.7	21	16	5.5	1.9	.75
MIN	.34	3.6	4.1	4.1	5.2	2.7	3.8	5.6	5.0	1.5	.70	.27
AC-FT	177	260	324	270	402	259	297	704	493	175	79	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999, BY WATER YEAR (WY)

	MEAN	.55	1.42	2.17	3.09	4.31	4.02	4.24	5.58	4.81	1.65	.50	.29
MAX	3.55	12.2	9.71	11.2	17.4	8.65	7.13	11.5	29.8	12.9	4.18	3.46	
(WY)	1984	1984	1984	1997	1986	1995	1982	1999	1983	1983	1983	1983	
MIN	.022	.030	.022	.010	.000	.040	.019	.11	.040	.014	.022	.020	
(WY)	1988	1980	1991	1993	1993	1977	1991	1977	1976	1990	1990	1975	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1974 - 1999
ANNUAL TOTAL	2039.03	1748.42	
ANNUAL MEAN	5.59	4.79	2.71
HIGHEST ANNUAL MEAN			8.29
LOWEST ANNUAL MEAN			.058
HIGHEST DAILY MEAN	19	21	63
LOWEST DAILY MEAN	.34	.27	.00
ANNUAL SEVEN-DAY MINIMUM	.54	.35	.00
INSTANTANEOUS PEAK FLOW		21	70
INSTANTANEOUS PEAK STAGE		2.60	3.20
ANNUAL RUNOFF (AC-FT)	4040	3470	1960
10 PERCENT EXCEEDS	9.9	8.5	7.1
50 PERCENT EXCEEDS	4.5	4.2	1.1
90 PERCENT EXCEEDS	1.1	.71	.03

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336725 GLENBROOK CREEK AT OLD HIGHWAY 50 NEAR GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST.	BARO- METRIC	OXYGEN, DIS- SOLVED		SPE- CIFIC			
		CUBIC	PRES- SURE	(PER- CENT	OXYGEN, DIS- SOLVED	CON- DUCT- ANCE	TEMPER- ATURE AIR	TEMPER- ATURE WATER	
		FEET PER SECOND	(MM OF HG)	(SATUR- ATION)	(MG/L)	(US/CM)	(DEG C)	(DEG C)	
		(00061)	(00025)	(00301)	(00300)	(00095)	(00020)	(00010)	
MAR									
23...	1355	4.2	--	--	--	439	6.5	4.5	
APR									
16...	1445	4.6	--	--	--	379	13.0	6.5	
19...	1750	16	--	--	--	285	14.0	6.5	
MAY									
06...	1050	8.5	--	--	--	236	12.5	5.0	
10...	1610	11	--	--	--	203	15.0	8.0	
13...	1540	14	--	--	--	173	9.5	8.5	
18...	1640	12	--	--	--	166	12.0	7.5	
20...	2000	17	--	--	--	140	8.0	6.0	
25...	1815	25	--	--	--	122	16.5	9.5	
JUN									
01...	1410	13	--	--	--	151	16.5	10.5	
08...	1830	9.5	602	101	9.0	183	13.0	10.0	
SEP									
17...	1145	1.0	--	--	--	286	16.0	8.5	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR									
23...	.002	.11	.009	.007	.024	346	.03	3	
APR									
16...	<.001	.15	.008	.007	.029	378	.10	8	
19...	<.001	.81	.023	.015	.431	7590	10	234	
MAY									
06...	.001	.15	.009	.011	.027	260	.09	4	
10...	.001	.18	.008	.012	.032	282	.35	12	
13...	<.001	.21	.004	.012	.052	603	1.0	27	
18...	.001	.22	.004	.013	.038	324	.30	9	
20...	.002	.26	.006	.011	.057	780	1.3	28	
25...	.003	.33	.017	.014	.107	2160	3.9	58	
JUN									
01...	<.001	.17	.004	.012	.029	234	.35	10	
08...	.002	.08	.008	.013	.028	229	.15	6	
SEP									
17...	.002	.08	.011	.016	.038	349	.01	4	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336730 GLENBROOK CREEK AT GLENBROOK, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°05'15", long 119°56'20", in NE 1/4 SE 1/4 sec.10, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on 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.--Records fair except for estimated daily discharges, which are poor. Flow may be affected by pumping or diverting for irrigation above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 144 ft³/s, January 2, 1997, gage height, 6.46 ft; no flow August 12, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
March 26	1800	8.1	1.94	May 26	1104	*31	*2.92

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	2.1	1.9	1.9	2.9	5.1	9.3	13	3.3	2.0	1.9
2	1.9	1.7	2.1	1.8	1.9	2.9	4.7	12	12	3.2	2.0	1.9
3	1.8	1.8	2.5	1.8	1.9	3.3	4.3	11	11	3.1	2.0	1.8
4	1.9	1.8	2.1	1.8	2.0	3.2	3.4	9.6	9.2	3.1	2.1	1.7
5	2.1	2.0	2.0	1.8	2.0	3.0	3.7	9.3	8.7	3.1	2.1	1.6
6	1.8	1.9	2.1	1.8	1.9	2.9	3.5	9.8	8.5	3.1	2.2	1.6
7	1.7	1.7	2.0	1.8	3.2	2.7	3.7	11	7.7	2.9	2.1	e1.5
8	1.6	1.8	2.0	1.8	2.6	2.7	2.0	12	7.8	2.8	2.1	e1.3
9	1.7	1.7	1.9	1.8	3.0	2.8	1.7	11	7.9	2.7	2.1	1.3
10	1.6	1.7	1.9	1.8	2.5	2.7	2.0	11	7.7	2.8	2.4	1.3
11	1.6	1.8	1.9	1.8	2.6	2.5	3.0	12	8.8	2.8	2.2	1.3
12	1.5	1.8	1.9	1.8	2.6	2.4	4.2	15	9.2	2.7	2.1	1.1
13	1.6	1.8	2.0	1.8	e2.6	2.6	5.2	14	7.8	2.7	2.1	1.2
14	1.5	1.8	2.0	1.8	e2.6	2.8	5.6	12	5.6	2.7	2.0	1.2
15	1.4	1.8	2.0	2.1	e2.6	3.0	5.7	11	6.8	2.5	2.0	1.3
16	1.5	1.8	2.3	2.5	e2.6	3.2	6.6	10	6.6	2.4	1.9	1.4
17	e1.5	1.8	2.5	2.4	e2.6	3.8	8.3	11	5.5	2.4	1.9	1.3
18	e1.5	e1.8	2.4	3.0	e2.6	5.2	9.5	13	4.4	2.4	1.9	1.3
19	1.6	e1.8	1.8	3.0	e2.6	5.8	9.9	13	4.1	e2.0	1.9	1.4
20	2.0	e1.8	1.7	3.1	e2.5	5.1	10	14	4.0	e2.1	1.8	1.4
21	e2.0	e1.8	e1.7	2.5	e2.5	5.0	9.7	16	3.9	e2.0	1.8	1.4
22	e2.0	e1.9	e1.7	2.4	e2.5	5.4	9.3	17	3.8	e2.0	1.7	1.4
23	e2.1	e1.9	e2.0	2.7	e2.5	5.3	9.1	18	3.6	e2.1	1.8	1.6
24	2.6	e1.9	e2.1	2.2	e2.5	5.2	8.9	19	3.5	e2.1	1.6	1.6
25	2.1	e1.9	2.2	2.3	e2.2	5.8	9.6	21	3.5	e2.1	e1.7	1.5
26	2.1	e1.9	1.9	2.1	e2.0	7.0	10	22	3.5	e2.1	e1.7	1.5
27	2.1	1.9	1.9	2.0	2.1	7.2	9.7	21	3.4	e2.1	1.8	1.4
28	2.0	2.0	1.9	2.1	2.3	6.6	8.5	21	3.4	2.0	1.8	1.4
29	1.7	2.3	1.9	2.0	---	6.3	6.6	18	3.3	2.0	1.8	1.5
30	1.7	2.5	1.9	1.9	---	5.9	7.0	16	3.3	2.0	1.9	1.4
31	1.6	---	1.9	1.9	---	5.6	---	14	---	2.0	1.9	---
TOTAL	55.8	56.2	62.3	65.5	67.4	130.8	190.5	434.0	191.5	77.3	60.4	43.5
MEAN	1.80	1.87	2.01	2.11	2.41	4.22	6.35	14.0	6.38	2.49	1.95	1.45
MAX	2.6	2.5	2.5	3.1	3.2	7.2	10	22	13	3.3	2.4	1.9
MIN	1.4	1.7	1.7	1.8	1.9	2.4	1.7	9.3	3.3	2.0	1.6	1.1
AC-FT	111	111	124	130	134	259	378	861	380	153	120	86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1999, BY WATER YEAR (WY)

MEAN	.76	.96	1.06	1.51	1.33	2.53	3.36	5.14	2.87	1.06	.64	.58
MAX	1.80	1.87	2.25	8.31	3.08	5.43	7.80	14.0	12.0	3.68	1.95	1.93
(WY)	1999	1999	1997	1997	1997	1997	1997	1999	1998	1998	1999	1998
MIN	.16	.31	.34	.32	.41	.66	.63	.33	.24	.076	.014	.036
(WY)	1993	1993	1991	1991	1991	1991	1992	1992	1992	1991	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1972 - 1999	
ANNUAL TOTAL	1487.6		1435.2			
ANNUAL MEAN	4.08		3.93		1.90	
HIGHEST ANNUAL MEAN					3.97	
LOWEST ANNUAL MEAN					.36	
HIGHEST DAILY MEAN	24	Mar 24	22	May 26	85	Jan 2 1997
LOWEST DAILY MEAN	1.4	Jan 1	1.1	Sep 12	.00	Aug 12 1994
ANNUAL SEVEN-DAY MINIMUM	1.5	Jan 4	1.2	Sep 8	.00	Aug 11 1994
INSTANTANEOUS PEAK FLOW			31	May 26	144	Jan 2 1997
INSTANTANEOUS PEAK STAGE			2.92	May 26	6.46	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	2950		2850		1370	
10 PERCENT EXCEEDS	9.9		9.6		4.2	
50 PERCENT EXCEEDS	2.1		2.1		1.0	
90 PERCENT EXCEEDS	1.7		1.6		.17	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, July 1987, 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 1998 to current year.

INSTRUMENTATION.--Water temperature recorder since April 1998, two times per hour.

REMARKS.--In November 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature represents water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 15.5°C, July 17-20, August 5-6, 1998, July 1, 12, 14, 1999; minimum, freezing point several days in winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, July 1, 12, 14, August 5-6; minimum, freezing point several days December to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT									
28...	1420	2.5	608	95	9.3	7.9	298	10.0	6.5
NOV									
23...	1625	3.6	--	--	--	--	450	3.0	3.0
DEC									
21...	1545	3.0	--	--	--	--	346	-8.0	.0
JAN									
22...	1615	2.5	--	--	--	--	382	2.5	2.0
FEB									
22...	1600	2.2	--	--	--	--	428	4.0	1.5
MAR									
23...	1450	4.2	--	--	--	--	400	8.0	5.0
APR									
14...	1720	6.0	--	--	--	--	381	11.0	6.5
19...	1810	17	--	--	--	--	293	11.0	7.0
28...	1750	9.7	--	--	--	--	313	4.0	5.0
MAY									
06...	1110	9.0	--	--	--	--	241	12.5	5.5
10...	1710	11	--	--	--	--	208	10.0	8.0
13...	1610	14	--	--	--	--	182	8.0	8.5
18...	1700	13	--	--	--	--	175	12.0	8.0
20...	2020	18	--	--	--	--	150	7.5	7.0
25...	1845	26	--	--	--	--	131	17.5	10.5
26...	1900	25	--	--	--	--	127	19.0	10.0
JUN									
01...	1440	14	--	--	--	--	158	13.5	11.0
08...	1900	10	603	94	8.4	--	189	11.0	10.0
18...	1405	5.8	--	--	--	--	219	19.0	11.5
23...	0910	5.4	--	--	--	--	238	16.0	8.5
JUL									
12...	1130	4.2	--	--	--	--	278	21.5	11.0
AUG									
17...	1525	1.6	--	--	--	--	289	25.0	11.5
SEP									
17...	1300	1.3	--	--	--	--	291	18.0	9.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
28...	.004	.13	.004	.017	.029	390	.02	3
NOV								
23...	.002	.15	.004	.016	.032	488	.10	10
DEC								
21...	.002	.13	.067	.008	.023	430	.04	5
JAN								
22...	.004	.10	.024	.014	.029	431	.03	4
FEB								
22...	.004	.10	.025	.010	.029	597	.01	2
MAR								
23...	.002	.19	.021	.008	.032	618	.09	8
APR								
14...	.001	.18	.019	.007	.043	704	.24	15
19...	<.001	.56	.015	.010	.315	6190	6.8	151
28...	.002	.17	.015	.011	.041	631	.37	14
MAY								
06...	.002	.18	.010	.011	.029	311	.19	8
10...	.001	.16	.007	.012	.038	425	.36	12
13...	<.001	.15	.007	.014	.048	550	.50	13
18...	.001	.14	.004	.013	.042	415	.63	18
20...	.002	.22	.007	.012	.056	766	.94	20
25...	.004	.35	.013	.017	.083	1400	2.4	35
26...	.004	.30	.014	.017	.081	1180	1.7	25
JUN								
01...	.001	.13	.007	.014	.032	325	.29	8
08...	.002	.10	.008	.014	.037	348	.16	6
18...	.004	.13	.011	.018	.036	414	.08	5
23...	.008	.11	.015	.018	.036	482	.10	7
JUL								
12...	.008	.15	.016	.019	.044	540	.09	8
AUG								
17...	.003	.08	.018	.021	.047	473	.02	4
SEP								
17...	.002	.12	.011	.018	.042	389	.01	4

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.0	7.5	8.5	5.0	3.5	4.5	1.5	1.0	1.5	1.0	.5	1.0
2	9.5	7.5	8.5	3.5	2.0	3.0	2.5	1.0	2.0	1.0	.0	.5
3	8.0	6.5	7.5	5.0	3.0	3.5	2.5	.5	2.0	1.0	.5	.5
4	7.0	5.0	6.0	4.5	2.5	3.5	1.0	.0	.5	1.0	.0	.5
5	6.5	5.0	6.0	4.0	2.5	3.0	.0	.0	.0	1.0	.0	.5
6	7.5	5.0	6.5	3.0	2.0	2.5	.0	.0	.0	1.0	.5	1.0
7	7.5	5.0	6.5	3.5	2.0	2.5	.5	.0	.0	1.5	.5	1.0
8	8.0	6.0	7.0	2.5	1.5	2.0	1.0	.5	.5	1.0	.5	.5
9	7.0	5.0	6.0	2.0	.5	1.5	.5	.0	.0	1.0	.0	.5
10	6.0	4.0	5.0	2.0	1.5	2.0	1.0	.0	.5	1.0	.0	.5
11	6.5	4.0	5.5	2.5	1.5	2.0	1.5	.5	1.0	1.5	.5	1.0
12	6.5	4.0	5.5	2.5	1.0	1.5	1.5	1.0	1.0	1.5	1.0	1.0
13	7.0	5.0	6.0	3.0	1.0	2.0	2.0	1.0	1.5	1.5	1.0	1.0
14	6.5	4.5	6.0	3.5	2.0	2.5	1.5	.5	1.0	2.0	1.0	1.5
15	6.5	5.0	5.5	4.0	2.0	3.0	2.0	1.0	1.5	2.5	1.0	2.0
16	5.0	3.0	4.0	3.5	2.0	3.0	2.5	1.0	1.5	2.5	1.0	1.5
17	4.5	2.5	3.5	3.0	1.5	2.5	2.0	1.0	1.5	3.0	2.0	2.5
18	4.5	2.5	3.5	2.0	1.0	1.5	2.0	1.0	1.0	2.5	.0	1.0
19	5.5	3.0	4.5	1.5	.5	1.0	1.0	.0	.5	1.0	.0	.5
20	5.5	3.5	4.5	2.0	.5	1.5	.0	.0	.0	1.0	.0	.5
21	6.0	4.0	5.0	3.5	2.0	3.0	.0	.0	.0	1.0	.0	.5
22	6.0	4.0	5.0	3.0	2.0	2.5	.0	.0	.0	2.0	.5	1.0
23	5.5	3.5	5.0	4.0	2.0	3.0	.0	.0	.0	1.0	.0	.5
24	5.5	4.5	5.0	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
25	4.5	4.0	4.5	2.5	1.5	2.0	.5	.0	.0	.5	.0	.0
26	5.5	4.0	5.0	2.5	1.0	1.5	1.0	.5	.5	1.0	.0	.5
27	6.0	4.0	5.5	3.5	1.5	2.5	1.0	.5	1.0	.5	.0	.0
28	6.5	5.0	6.0	2.5	1.5	2.5	1.5	1.0	1.0	.0	.0	.0
29	6.0	3.5	5.0	2.5	1.0	2.0	1.0	.5	1.0	.5	.0	.0
30	4.0	2.5	3.0	3.5	1.0	2.5	1.5	.5	1.0	1.0	.0	.5
31	4.0	2.0	3.0	---	---	---	2.0	1.0	1.5	1.0	.5	.5
MONTH	10.0	2.0	5.4	5.0	.5	2.4	2.5	.0	.8	3.0	.0	.7

10336730 GLENBROOK CREEK AT GLENBROOK, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.0	.0	.5	3.5	1.5	2.0	2.5	.5	1.5	8.5	3.0	5.0
2	1.0	.0	.5	3.0	1.0	2.0	3.5	.5	2.0	6.0	2.5	4.0
3	1.5	.5	1.0	3.5	1.5	2.5	2.0	.5	1.0	5.5	1.5	3.0
4	2.0	1.0	1.5	2.5	1.0	1.5	3.5	.0	1.5	7.5	1.5	4.0
5	2.0	1.0	1.5	2.0	.0	1.0	2.0	.5	1.0	9.0	1.5	4.5
6	1.5	1.0	1.0	2.5	.5	1.5	1.5	.0	1.0	10.0	2.5	5.5
7	1.5	.5	1.0	3.0	1.0	1.5	2.5	1.5	2.0	9.5	3.0	5.5
8	1.0	.0	.5	2.0	.5	1.5	1.5	.5	1.0	9.0	2.5	5.0
9	1.0	.0	.5	1.0	.0	.5	2.0	.0	1.0	8.5	2.0	5.0
10	.0	.0	.0	1.5	.0	.5	2.5	.0	1.5	8.5	2.5	5.0
11	.0	.0	.0	2.5	.5	1.5	4.0	1.5	2.5	10.5	3.0	6.0
12	1.0	.0	.5	2.5	.0	1.5	5.0	1.0	3.0	10.0	4.0	6.0
13	1.0	.5	1.0	3.5	1.0	2.0	6.5	1.5	3.5	9.0	3.0	5.0
14	1.5	1.0	1.0	4.0	1.0	2.0	6.5	1.5	4.0	8.0	2.0	4.5
15	1.5	.0	1.0	3.5	1.5	2.5	7.0	1.5	4.0	9.0	2.5	5.0
16	1.5	1.0	1.5	4.0	1.0	2.5	7.5	2.0	4.5	9.5	2.5	5.5
17	2.0	.5	1.5	4.5	1.0	2.5	8.0	2.5	4.5	10.5	2.5	6.0
18	2.0	.0	1.0	4.5	1.5	3.0	7.5	2.0	4.5	8.5	3.0	5.5
19	1.5	.0	.5	4.0	2.0	3.0	8.5	3.0	5.0	10.5	3.0	6.0
20	1.5	.0	.5	3.5	1.5	2.5	8.5	2.5	5.0	10.0	3.5	6.0
21	.5	.0	.0	4.5	1.0	2.5	7.0	2.5	4.5	11.5	3.5	6.5
22	1.5	.5	1.0	4.5	1.0	2.5	6.5	2.5	4.0	11.5	4.0	7.0
23	2.0	1.0	1.5	5.0	2.0	3.5	5.0	2.0	3.5	11.5	4.5	7.5
24	2.5	1.0	1.5	4.5	1.5	3.0	7.5	2.5	4.5	10.0	5.0	7.0
25	1.5	.0	.5	6.0	2.0	3.5	9.5	2.5	5.5	12.0	5.0	8.0
26	1.5	.0	1.0	6.0	2.5	4.0	7.5	3.5	5.0	12.0	5.0	8.0
27	3.0	1.5	2.0	5.5	1.5	3.0	8.5	3.0	5.0	12.0	5.0	8.0
28	3.0	1.0	2.0	5.5	1.0	3.0	5.5	1.5	3.0	12.0	5.0	8.0
29	---	---	---	5.5	1.0	3.0	3.5	2.0	3.0	9.5	4.5	6.5
30	---	---	---	4.0	.0	2.5	8.5	2.5	5.0	12.0	4.5	8.0
31	---	---	---	2.0	.0	1.0	---	---	---	11.5	5.0	7.5
MONTH	3.0	.0	.9	6.0	.0	2.2	9.5	.0	3.2	12.0	1.5	5.9
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	11.0	5.5	7.5	15.5	9.5	12.0	14.0	9.5	11.5	8.0	4.0	6.0
2	8.5	4.5	6.5	15.0	9.5	12.0	13.5	8.5	11.0	9.5	5.0	7.0
3	4.5	2.0	3.5	14.0	9.5	11.5	14.0	8.5	11.0	9.0	4.5	6.5
4	6.5	3.5	5.0	13.5	8.5	11.0	12.5	9.5	11.0	9.5	4.5	7.0
5	12.0	5.0	8.0	14.0	8.0	10.5	13.0	9.0	11.0	10.0	4.5	7.0
6	11.5	5.5	8.0	14.5	8.5	11.5	11.5	9.5	10.0	11.5	5.0	8.0
7	10.5	4.0	6.5	14.5	9.5	12.0	11.5	7.5	9.5	10.5	5.0	7.5
8	10.5	3.5	6.5	14.5	9.0	11.5	11.5	8.0	9.5	11.0	5.0	8.0
9	10.0	4.0	6.5	14.5	8.5	11.5	11.0	8.5	9.5	9.5	6.0	7.5
10	11.5	4.5	7.5	14.5	9.5	12.0	10.0	8.5	9.0	10.0	6.0	8.0
11	12.0	5.5	8.5	15.0	10.0	12.5	12.0	7.5	9.5	10.5	6.0	8.5
12	12.0	6.0	9.0	15.5	10.5	13.0	12.5	8.0	10.0	11.5	6.0	8.5
13	13.5	6.5	9.5	15.0	11.0	13.0	12.5	8.5	10.0	11.0	6.0	8.5
14	14.0	7.0	10.0	15.5	10.5	13.0	12.0	7.5	9.5	11.0	6.0	8.5
15	11.0	7.0	9.5	15.0	10.0	12.5	12.0	6.5	9.0	11.0	5.0	8.0
16	13.5	7.0	10.0	14.5	9.5	12.0	12.5	7.5	10.0	11.5	6.0	8.5
17	14.0	7.5	10.5	14.0	8.5	11.0	12.5	7.5	10.0	12.0	6.0	9.0
18	12.0	7.0	10.0	13.5	8.5	11.0	12.0	8.5	10.0	10.0	8.5	9.5
19	13.5	8.0	10.5	13.5	9.0	11.0	12.5	7.5	10.0	11.0	7.0	9.0
20	14.0	7.5	10.5	13.0	8.5	11.0	13.5	7.5	10.0	11.0	7.0	9.0
21	13.5	8.5	11.0	13.0	7.5	10.0	12.0	7.0	10.0	11.0	7.0	9.0
22	14.5	8.5	11.0	14.0	8.5	11.0	12.5	8.0	10.0	10.5	7.5	9.0
23	15.0	8.5	11.5	13.5	8.5	11.0	12.5	8.0	10.0	11.5	8.5	9.5
24	14.0	9.5	11.5	13.5	8.5	11.0	12.5	6.5	9.5	11.5	7.0	9.5
25	13.5	8.0	10.5	13.5	8.0	11.0	13.0	7.5	10.0	11.5	7.5	9.5
26	13.0	6.5	9.5	14.5	9.5	11.5	11.5	8.0	10.0	11.0	7.0	9.0
27	13.5	7.0	10.0	14.5	9.0	11.5	13.0	8.5	10.5	10.0	6.0	7.5
28	14.5	8.0	11.0	13.5	9.5	11.5	12.5	7.5	10.0	8.5	4.5	6.0
29	14.5	8.5	11.5	14.0	9.5	11.5	13.5	7.5	10.0	9.5	4.5	7.0
30	15.0	9.0	12.0	14.0	9.0	11.0	10.5	6.5	9.0	11.0	5.5	8.0
31	---	---	---	14.5	9.5	11.5	9.0	5.0	7.0	---	---	---
MONTH	15.0	2.0	9.1	15.5	7.5	11.5	14.0	5.0	9.9	12.0	4.0	8.1
YEAR	15.5	.0	5.1									

PYRAMID AND WINNEMUCCA LAKES BASIN

10336735 NORTH LOGAN HOUSE CREEK AT HIGHWAY 50 NEAR GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°04'08", long 119°56'24", in NW 1/4 NE 1/4 sec.22, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 200 ft upstream of culvert on U.S. Highway 50, 600 ft upstream of mouth, and 1.4 mi south of Glenbrook.

DRAINAGE AREA.--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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE,	BARO-	OXYGEN,	OXYGEN,	SPE-	TEMPER-	TEMPER-		
		INST.	METRIC	DIS-		CIFIC			ATURE	ATURE
		CUBIC	PRES-	SOLVED		ANCE			AIR	WATER
		FEET	SURE	(PER-	DIS-	CON-				
		PER	(MM	CENT	SOLVED	DUCT-				
		SECOND	OF	SATUR-	(MG/L)	ANCE	(DEG C)	(DEG C)		
		(00061)	HG)	ATION)	(00300)	(US/CM)	(00020)	(00010)		
MAR										
23...	1555	1.5	--	--	--	87	5.5	3.0		
APR										
16...	1355	1.5	--	--	--	80	12.5	4.0		
19...	1700	6.0	--	--	--	66	13.0	3.0		
MAY										
06...	1200	4.0	--	--	--	71	9.0	4.0		
10...	1520	5.0	--	--	--	67	12.5	5.5		
13...	1740	6.0	--	--	--	69	7.5	6.0		
18...	1535	5.0	--	--	--	75	12.5	7.0		
20...	1920	6.0	--	--	--	73	10.5	7.0		
25...	1625	9.0	--	--	--	72	16.5	11.0		
JUN										
01...	1600	4.5	--	--	--	77	11.5	9.5		
08...	1740	3.0	597	103	9.4	81	15.5	8.5		
SEP										
17...	1450	1.1	--	--	--	100	21.5	9.0		
DATE		NITRO-	NITRO-	NITRO-	PHOS-	IRON,	SEDI-			
		GEN,	GEN,AM-	GEN,	PHORUS	BIO.	MENT,			
		AMMONIA	MONIA +	NO2+NO3	ORTHO,	REACT-	DIS-	SEDI-		
		DIS-	ORGANIC	DIS-	DIS-	IVE	CHARGE,	MENT,		
		SOLVED	TOTAL	SOLVED	SOLVED	TOTAL	SUS-	SUS-		
		(MG/L	(MG/L	(MG/L	(MG/L	(UG/L	PENDEED	PENDEED		
		AS N)	AS N)	AS N)	AS P)	AS FE)	(T/DAY)	(MG/L)		
		(00608)	(00625)	(00631)	(00671)	(00665)	(80155)	(80154)		
MAR										
23...	.004	.17	.052	.003	.018	385	.02	5		
APR										
16...	<.001	.19	.052	.003	.021	371	.03	8		
19...	.002	1.3	.021	.013	.246	6950	6.4	396		
MAY										
06...	.002	.17	.035	.007	.029	634	.16	15		
10...	.002	.30	.026	.008	.040	758	.36	27		
13...	.001	.36	.022	.009	.044	1580	.94	58		
18...	.001	.25	.024	.008	.039	771	.26	19		
20...	.002	.26	.021	.006	.038	808	.60	37		
25...	.003	.28	.017	.004	.045	857	.95	39		
JUN										
01...	.001	.17	.016	.007	.024	443	.30	25		
08...	.001	.17	.020	.006	.027	475	.08	10		
SEP										
17...	.002	.17	.034	.006	.033	1470	.03	9		

PYRAMID AND WINNEMUCCA LAKES BASIN
10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 39°04'00", long 119°56'04", in NW 1/4 NW 1/4 sec.23, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on right bank, 0.1 mi downstream from unnamed tributary, 0.3 mi upstream from U.S. Highway 50, and 1.6 mi south of Glenbrook.

DRAINAGE AREA.--2.08 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.--No estimated daily discharges. Records fair. One small diversion 50 ft upstream from station for domestic use. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12.0 ft³/s, January 2, 1997 and June 12, 1998, gage height, 4.75 ft; no flow many days in 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3.0 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 27	0030	3.8	4.46	May 25	1745	*8.9	*4.67
Apr 18	1930	4.3	4.49				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	1.3	1.4	.77	.75	.61	1.5	4.1	5.6	2.3	1.1	1.1
2	.79	1.2	1.2	.75	.75	.65	1.3	4.0	5.4	2.3	1.1	1.3
3	.79	1.1	1.2	.75	.77	.65	1.3	3.9	5.2	2.3	1.1	1.3
4	.78	1.1	1.1	.75	.78	.65	1.3	3.6	5.1	2.2	1.1	1.2
5	.76	1.1	1.1	.75	.73	.63	1.4	3.9	5.6	2.1	1.1	1.2
6	.77	1.1	1.1	.76	.76	.61	1.3	4.3	5.0	2.1	1.3	1.2
7	.77	1.1	.99	.74	.82	.60	1.3	4.3	4.4	2.0	1.2	1.1
8	.75	1.1	1.0	.72	.80	.59	1.3	3.9	4.1	1.8	1.2	1.0
9	.77	1.1	.98	.72	.81	.60	1.2	3.7	4.0	1.5	1.3	1.4
10	.77	1.1	.98	.72	.74	.59	1.3	3.4	4.0	1.5	1.8	1.6
11	.77	1.2	.99	.73	.73	.59	1.4	4.2	3.9	1.4	1.4	1.3
12	.76	1.1	.99	.72	.71	.48	1.4	5.2	3.9	1.4	1.3	1.1
13	.76	1.2	1.0	.72	.70	.56	1.5	4.9	3.8	1.5	1.1	1.1
14	.77	1.2	.97	.72	.69	.60	2.3	4.4	3.7	1.5	1.0	1.0
15	.78	1.2	.95	.76	.63	.59	2.8	4.0	3.8	1.4	.92	.96
16	.77	1.2	.97	.77	.65	.61	3.2	4.1	3.7	1.3	.87	.90
17	.76	1.2	.97	.79	.69	.68	4.5	4.7	3.3	1.3	.81	.91
18	.76	1.2	.97	.83	.69	.85	5.2	4.7	3.2	1.3	.80	.97
19	.75	1.2	.95	.83	.70	1.1	6.4	5.9	3.1	1.5	.77	.99
20	.75	1.2	.89	.85	.64	1.0	4.5	4.7	3.0	1.4	.75	1.1
21	.74	1.2	.87	.80	.64	.96	5.6	4.8	3.0	1.3	.76	.97
22	.74	1.2	.87	.77	.62	1.1	5.0	5.3	2.9	1.3	.79	.95
23	.74	1.3	.86	.83	.64	1.1	3.8	5.9	2.8	1.3	.82	.92
24	.77	1.3	.85	.80	.64	1.2	3.4	6.2	2.8	1.2	.74	.92
25	.85	1.2	.86	.79	.65	1.4	4.1	7.3	2.8	1.2	.72	.91
26	.91	1.2	.87	.79	.64	1.8	5.0	6.6	2.6	1.2	.75	.90
27	.92	1.2	.85	.77	.63	3.2	4.1	6.4	2.6	1.1	1.1	.90
28	.97	1.2	.83	.77	.61	3.6	4.5	5.9	2.5	1.1	.96	.87
29	1.1	1.2	.84	.76	---	2.9	3.4	5.5	2.4	1.2	.97	.90
30	1.1	1.6	.84	.78	---	2.9	3.4	6.0	2.4	1.2	1.0	.90
31	1.1	---	.84	.77	---	1.6	---	5.7	---	1.2	1.0	---
TOTAL	25.34	35.8	30.08	23.78	19.61	35.00	88.7	151.5	110.6	47.4	31.63	31.87
MEAN	.82	1.19	.97	.77	.70	1.13	2.96	4.89	3.69	1.53	1.02	1.06
MAX	1.1	1.6	1.4	.85	.82	3.6	6.4	7.3	5.6	2.3	1.8	1.6
MIN	.74	1.1	.83	.72	.61	.48	1.2	3.4	2.4	1.1	.72	.87
AC-FT	50	71	60	47	39	69	176	301	219	94	63	63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.33	.42	.40	.42	.39	.62	1.30	1.69	1.01	.43	.26	.28				
MAX	1.04	1.48	1.49	1.29	1.00	1.58	2.96	4.89	3.81	1.53	1.02	1.06				
(WY)	1984	1984	1984	1987	1984	1986	1999	1999	1998	1999	1999	1999				
MIN	.042	.059	.000	.047	.068	.093	.15	.013	.006	.009	.000	.008				
(WY)	1989	1992	1992	1992	1991	1991	1992	1992	1992	1991	1988	1988				

SUMMARY STATISTICS

	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1984 - 1999
ANNUAL TOTAL	526.81	631.31	
ANNUAL MEAN	1.44	1.73	.63
HIGHEST ANNUAL MEAN			1.73
LOWEST ANNUAL MEAN			.051
HIGHEST DAILY MEAN	7.9 Jun 7	7.3 May 25	8.7 Jan 2 1997
LOWEST DAILY MEAN	.45 Aug 20	.48 Mar 12	.00 Jul 13 1988
ANNUAL SEVEN-DAY MINIMUM	.55 Aug 17	.57 Mar 7	.00 Jul 13 1988
INSTANTANEOUS PEAK FLOW		8.9 May 25	12 Jan 2 1997
INSTANTANEOUS PEAK STAGE		4.67 May 25	4.75 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	1040	1250	456
10 PERCENT EXCEEDS	3.4	4.1	1.5
50 PERCENT EXCEEDS	.96	1.1	.33
90 PERCENT EXCEEDS	.62	.72	.03

PYRAMID AND WINNEMUCCA LAKES BASIN
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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								
26...	1620	1.0	--	--	--	117	8.0	4.0
NOV								
23...	1615	1.4	--	--	--	109	2.0	2.5
DEC								
21...	1620	.96	--	--	--	110	-8.0	.0
JAN								
22...	1545	.82	--	--	--	118	2.0	2.0
FEB								
22...	1700	.70	--	--	--	121	4.0	1.5
MAR								
23...	1645	1.0	--	--	--	118	4.5	2.0
APR								
14...	1610	1.2	--	--	--	111	8.0	2.5
19...	1635	3.6	--	--	--	96	12.5	2.0
28...	1645	2.3	--	--	--	97	2.0	1.5
MAY								
06...	1140	3.0	--	--	--	94	15.0	3.0
10...	1445	3.2	--	--	--	86	11.0	3.0
13...	1710	5.2	--	--	--	84	7.5	3.5
18...	1625	4.7	--	--	--	89	12.5	5.0
20...	1850	5.6	--	--	--	82	5.5	11.5
25...	1705	8.0	--	--	--	80	19.5	9.5
26...	1750	7.2	--	--	--	82	18.5	9.5
JUN								
01...	1530	5.4	--	--	--	93	12.5	9.0
08...	1715	3.9	595	102	9.4	98	17.0	8.0
16...	1300	3.9	--	--	--	103	20.0	9.5
23...	1440	2.5	--	--	--	110	24.5	11.5
JUL								
12...	1645	1.3	--	--	--	124	31.0	11.5
AUG								
17...	1615	.82	--	--	--	130	24.0	8.0
SEP								
17...	1600	.50	--	--	--	133	21.0	8.5

PYRAMID AND WINNEMUCCA LAKES BASIN
10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV--Continued

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
26...	.004	.21	.003	.001	.010	129	.01	4
NOV								
23...	.001	.14	.015	.001	.009	131	.01	3
DEC								
21...	.001	.13	.033	.001	.008	69	.01	2
JAN								
22...	.001	.10	.040	.003	.011	89	.002	1
FEB								
22...	.002	.09	.047	.002	.008	74	.002	1
MAR								
23...	.002	.18	.039	.001	.010	99	.003	1
APR								
14...	<.001	.11	.052	.001	.016	161	.03	10
19...	<.001	1.1	.036	.004	.081	1330	.56	58
28...	.002	.15	.036	.002	.014	210	.03	5
MAY								
06...	.001	.18	.034	.003	.014	210	.06	8
10...	.003	.18	.029	.003	.016	200	.06	7
13...	.001	.35	.021	.003	.033	485	1.2	84
18...	.001	.28	.026	.005	.042	691	.48	38
20...	.001	.39	.022	.005	.047	879	1.2	76
25...	.003	.76	.016	.007	.105	2700	3.5	162
26...	.003	.51	.014	.007	.059	1570	1.4	72
JUN								
01...	<.001	.17	.008	.004	.017	198	.09	6
08...	<.001	.14	.010	.002	.022	167	.04	4
16...	.002	.12	.007	.004	.021	173	.01	1
23...	.002	.17	.007	.003	.016	256	.04	6
JUL								
12...	.002	.17	.008	.002	.023	163	.01	4
AUG								
17...	.001	.16	.010	.004	.028	274	.01	4
SEP								
17...	<.001	.15	.006	.002	.024	325	.004	3

PYRAMID AND WINNEMUCCA LAKES BASIN

10336750 EDGEWOOD CREEK BELOW SOUTH BENJAMIN DRIVE NEAR DAGGETT PASS, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'00", long 119°53'37", in NW 1/4 NW 1/4 sec.30, T.13 N., R.19 E., Douglas County, Hydrologic Unit 16050101, Toiyabe National Forest, on left bank, 10 ft downstream of junction of two channels, 800 ft downstream of culvert on South Benjamin Drive and parking lot of Boulder section of Heavenly Valley Ski Area, 0.7 mi south of Daggett Pass, and 2.4 mi east of Stateline.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1989, water years 1991 to current year.

REMARKS.--In April 1991, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST.	BARO- METRIC PRES-	OXYGEN, DIS- SOLVED	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	
		CUBIC	SURE	(PER- CENT		CON- DUCT- ANCE			
		FEET	(MM	SATUR- ATION)		TEMPER- ATURE			
		PER SECOND (00061)	OF HG) (00025)	(PER- CENT SATUR- ATION) (00301)		(US/CM) (00095)			
MAR									
29...	1625	.80	--	--	--	176	3.0	2.0	
APR									
16...	1740	1.0	--	--	--	118	8.0	2.0	
22...	1350	1.5	--	--	--	200	4.0	2.0	
MAY									
07...	1605	1.5	--	--	--	74	9.5	3.0	
12...	1345	2.9	--	--	--	69	15.0	4.5	
20...	0935	2.5	--	--	--	82	11.5	4.0	
25...	1405	2.8	--	--	--	62	20.5	10.0	
JUN									
01...	1640	1.5	580	99	9.0	77	10.0	7.5	
08...	1515	1.0	--	--	--	86	13.0	11.0	
SEP									
20...	1055	.28	--	--	--	106	17.0	8.5	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHOPHOS- PHORUS TOTAL (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO- REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
MAR									
29...	.016	.12	.038	.005	.052	2120	.04	18	
APR									
16...	.004	.38	.070	.002	.194	6250	.24	89	
22...	<.001	1.1	.052	.007	.786	15700	1.4	345	
MAY									
07...	.006	.49	.054	.008	.356	12900	.56	138	
12...	.005	.46	.041	.008	.477	17600	2.5	324	
20...	.001	.14	.036	.007	.056	1860	.23	34	
25...	.005	.28	.025	.012	.395	9710	1.4	182	
JUN									
01...	<.001	.10	.017	.012	.060	1970	.10	24	
08...	.007	.15	.019	.014	.052	1600	.03	12	
SEP									
20...	.010	.10	.022	.011	.058	1680	.02	25	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336756 EDGEWOOD CREEK TRIBUTARY NEAR DAGGETT PASS, NV
(Lake Tahoe Interagency Monitoring Program)

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 mi upstream of mouth with Edgewood Creek, 0.7 mi west of Daggett Pass, and 2.4 mi 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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT OF SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
MAR								
29...	1720	1.0	--	--	--	242	3.0	1.5
APR								
16...	1830	2.0	--	--	--	221	7.0	1.5
22...	1420	1.5	--	--	--	186	3.5	2.5
MAY								
07...	1725	2.0	--	--	--	134	10.0	6.5
12...	1435	2.3	--	--	--	135	14.0	8.5
20...	1030	1.5	--	--	--	152	10.5	5.5
25...	1525	1.1	--	--	--	163	19.5	14.5
JUN								
01...	1745	.80	581	98	8.6	186	9.5	9.0
08...	1630	.53	--	--	--	190	12.5	10.0
SEP								
20...	1145	.15	--	--	--	237	17.0	8.0

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
MAR								
29...	.012	.26	.074	.007	.037	603	.01	3
APR								
16...	.005	.41	.057	.009	.164	4810	.26	49
22...	.004	.24	.052	.008	.031	785	.03	7
MAY								
07...	.006	.43	.028	.013	.132	3840	.16	29
12...	.004	.29	.022	.011	.112	2120	.11	17
20...	.004	.24	.021	.010	.047	919	.02	5
25...	.004	.30	.015	.016	.065	1150	.02	7
JUN								
01...	.004	.25	.016	.015	.047	893	.01	5
08...	.005	.19	.018	.015	.045	843	.01	5
SEP								
20...	.002	.15	.012	.014	.045	662	.0008	2

PYRAMID AND WINNEMUCCA LAKES BASIN

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°58'00", long 119°54'54", in NW 1/4 NW 1/4 sec.25, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, 50 ft downstream from culvert at Palisades Drive, and 1.2 mi east of intersection of U.S. Highway 50 and State Highway 207 at Kingsbury.

DRAINAGE AREA.--3.13 mi² (revised).

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 except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57 ft³/s, August 14, 1991, gage height, 2.61 ft; minimum daily, 0.08 ft³/s, August 10-11, 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5.0 ft³/s and maximum (*):

Discharge				Gage height				Discharge				Gage height			
Date		Time	(ft³/s)			(ft)	Date		Time	(ft³/s)			(ft)		
April 19		1715	12			1.55	May 12		1830	*14			*1.61		
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999															
DAILY MEAN VALUES															
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	1.9	2.8	2.8	2.0	2.2	3.1	3.2	7.2	5.7	2.6	1.8	1.8			
2	1.8	2.4	2.9	2.0	2.2	3.1	3.0	7.1	5.7	2.5	1.8	1.8			
3	1.8	2.2	2.9	2.0	2.3	3.2	3.0	6.1	5.9	2.5	1.8	1.7			
4	1.8	2.2	2.4	2.0	2.4	2.8	3.1	6.0	5.7	2.4	2.0	1.6			
5	1.8	2.1	2.4	2.0	2.3	2.6	2.9	7.2	5.6	2.4	2.0	1.6			
6	1.8	2.1	2.6	2.0	2.2	2.7	2.9	9.1	5.2	2.4	2.1	1.6			
7	1.8	2.3	2.6	2.1	2.3	2.7	2.8	10	4.8	2.2	2.1	1.5			
8	1.8	2.2	2.6	2.0	e2.3	2.6	2.7	9.4	4.5	2.2	2.1	1.5			
9	1.8	2.2	e2.2	2.0	e2.3	2.5	2.8	8.7	4.3	2.2	2.2	1.6			
10	1.9	2.1	2.2	2.0	e2.3	2.5	2.8	8.5	4.3	2.2	2.7	1.7			
11	1.9	2.1	2.3	2.0	e2.3	2.5	2.8	9.7	4.1	2.2	2.4	1.5			
12	1.8	2.1	2.3	2.0	2.3	2.5	3.4	11	4.0	e2.2	2.1	1.4			
13	1.8	2.1	2.3	2.0	2.4	2.8	4.0	9.6	4.0	e2.2	2.0	1.4			
14	1.9	2.2	2.2	2.0	2.3	3.0	4.2	8.6	3.8	e2.2	1.9	1.4			
15	1.9	2.3	2.2	2.2	2.3	2.9	4.2	8.1	3.7	e2.2	1.8	1.4			
16	2.0	2.3	2.2	2.3	2.4	3.1	4.6	8.1	3.6	e2.1	1.8	1.4			
17	2.0	2.4	2.3	2.4	2.6	3.4	5.5	8.6	3.6	e2.1	1.7	1.4			
18	2.0	2.3	2.3	2.5	2.4	3.7	6.1	8.5	3.4	e2.1	1.7	1.5			
19	2.0	2.2	2.2	2.3	2.3	3.6	7.8	8.4	3.3	e2.1	1.6	1.6			
20	2.0	2.2	2.1	2.2	2.3	3.2	8.5	8.5	3.3	e2.1	1.6	1.5			
21	1.9	2.3	e2.0	2.2	2.3	3.1	8.2	8.5	3.1	e2.1	1.6	1.4			
22	1.9	2.5	e2.0	2.4	2.3	3.4	6.8	8.5	3.1	e2.1	1.6	1.4			
23	1.9	3.2	e2.0	2.3	2.3	3.6	5.1	8.5	3.0	e2.0	1.7	1.5			
24	2.1	2.8	e2.0	2.3	2.5	3.6	5.1	8.5	2.9	e2.0	1.5	1.5			
25	2.4	2.4	e2.0	2.3	2.5	3.9	7.3	8.9	2.8	e2.0	1.5	1.4			
26	2.4	2.3	2.0	2.3	2.4	4.3	7.8	8.0	2.8	e2.0	1.6	1.3			
27	2.2	2.3	2.1	2.3	2.6	4.1	7.5	7.3	2.7	e2.0	2.0	1.3			
28	2.1	2.3	2.1	2.3	2.7	3.8	6.1	6.9	2.7	1.8	1.7	1.4			
29	2.1	2.5	2.1	2.3	---	3.8	4.9	6.2	2.7	1.7	1.6	1.4			
30	2.5	3.6	2.1	2.3	---	3.6	5.2	6.0	2.6	1.7	1.6	1.4			
31	2.4	---	2.1	2.3	---	3.4	---	5.6	---	1.8	1.8	---			
TOTAL	61.4	71.0	70.5	67.3	66.0	99.1	144.3	251.3	116.9	66.3	57.4	44.9			
MEAN	1.98	2.37	2.27	2.17	2.36	3.20	4.81	8.11	3.90	2.14	1.85	1.50			
MAX	2.5	3.6	2.9	2.5	2.7	4.3	8.5	11	5.9	2.6	2.7	1.8			
MIN	1.8	2.1	2.0	2.0	2.2	2.5	2.7	5.6	2.6	1.7	1.5	1.3			
AC-FT	122	141	140	133	131	197	286	498	232	132	114	89			

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	MEAN	1.84	1.00	1.10	1.38	1.27	1.93	2.71	3.09	1.85	1.00	.78	.76
MAX	1.98	2.37	2.56	5.23	2.65	4.01	4.86	8.11	4.24	2.19	1.85	1.84	
(WY)	1999	1999	1997	1997	1997	1997	1996	1999	1998	1998	1999	1998	
MIN	.21	.38	.33	.29	.38	.62	.75	.42	.26	.15	.12	.14	
(WY)	1995	1993	1993	1993	1993	1991	1992	1992	1992	1994	1994	1992	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

ANNUAL TOTAL	974.3	1116.4	
ANNUAL MEAN	2.67	3.06	1.48
HIGHEST ANNUAL MEAN			3.06
LOWEST ANNUAL MEAN			.41
HIGHEST DAILY MEAN	14	Mar 24	37
LOWEST DAILY MEAN	1.2	Aug 27	.08
ANNUAL SEVEN-DAY MINIMUM	1.2	Aug 27	.09
INSTANTANEOUS PEAK FLOW		14	57
INSTANTANEOUS PEAK STAGE		1.61	2.61
ANNUAL RUNOFF (AC-FT)	1930	2210	1070
10 PERCENT EXCEEDS	4.6	6.1	3.3
50 PERCENT EXCEEDS	2.2	2.3	.88
90 PERCENT EXCEEDS	1.6	1.7	.26

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

103367585 EDGEWOOD CREEK AT PALISADES DRIVE NEAR KINGSBURY, NV--Continued

WATER-QUALITY DATA

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

REMARKS.--In October 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	
OCT									
26...	1520	2.3	--	--	--	177	7.5	5.0	
DEC									
22...	1635	2.0	--	--	--	171	-13.0	.0	
JAN									
22...	1245	2.3	--	--	--	190	2.0	1.0	
FEB									
25...	1750	2.5	--	--	--	226	-3.0	1.5	
MAR									
17...	1545	4.0	--	--	--	297	6.0	3.0	
29...	1525	4.0	--	--	--	285	5.5	3.5	
APR									
14...	1430	4.0	--	--	--	265	7.5	4.5	
22...	1245	7.2	--	--	--	236	3.0	2.0	
26...	1155	7.4	--	--	--	183	5.0	3.5	
MAY									
07...	1500	9.0	--	--	--	161	13.0	8.0	
10...	1350	7.0	--	--	--	160	14.0	6.5	
12...	1545	12	--	--	--	140	10.5	8.0	
19...	1615	8.1	--	--	--	145	14.5	10.0	
25...	1245	7.9	--	--	--	152	16.0	10.0	
26...	1800	8.3	--	--	--	138	16.0	12.0	
JUN									
01...	1530	5.2	590	100	8.8	156	11.5	9.5	
08...	1345	3.0	--	--	--	168	13.0	8.0	
16...	1015	4.0	--	--	--	175	17.0	8.0	
23...	1050	3.0	--	--	--	182	24.0	9.0	
JUL									
12...	1545	1.7	--	--	--	187	28.0	12.0	
AUG									
19...	1555	1.4	--	--	--	197	18.5	10.0	
SEP									
20...	1310	1.7	--	--	--	215	15.5	8.5	
		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO- REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT									
26...	.003	.11	.003	.008	.021	308	.01	2	
DEC									
22...	.003	.12	.023	.004	.018	338	.03	5	
JAN									
22...	.004	.16	.029	.008	.047	1350	.08	13	
FEB									
25...	.062	.18	.041	.006	.019	476	.03	5	
MAR									
17...	.004	.17	.039	.004	.060	1750	.22	20	
29...	.004	.12	.036	.006	.028	528	.09	8	
APR									
14...	.001	.12	.040	.005	.045	1070	.12	11	
22...	<.001	.30	.034	.005	.042	879	.31	16	
26...	.001	.17	.033	.008	.040	815	.34	17	
MAY									
07...	.002	.23	.027	.010	.060	1790	1.0	41	
10...	.002	.15	.023	.008	.033	702	.36	19	
12...	.001	.26	.023	.010	.080	2260	3.1	96	
19...	.002	.18	.018	.011	.063	2630	.55	25	
25...	.003	.22	.017	.012	.049	1070	.36	17	
26...	.003	.20	.014	.012	.057	1180	.72	32	
JUN									
01...	.002	.16	.012	.010	.038	808	.18	13	
08...	.002	.12	.013	.010	.033	666	.06	7	
16...	.002	.12	.011	.010	.036	737	.09	8	
23...	.004	.13	.014	.011	.031	695	.05	6	
JUL									
12...	.003	.12	.015	.010	.030	663	.03	6	
AUG									
19...	<.001	.10	.021	.010	.037	681	.02	5	
SEP									
20...	.002	.08	.013	.007	.038	720	.02	5	

PYRAMID AND WINNEMUCCA LAKES BASIN
103367592 EAGLE ROCK CREEK NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'24", long 119°55'36", in NE 1/4 SW 1/4 sec.26, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 0.2 mi upstream from confluence of Edgewood Creek, and 0.8 mi east of Stateline.

DRAINAGE AREA.--0.59 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 good including estimated daily discharges. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4.0 ft³/s, January 2, 1997, gage height, 5.68 ft; minimum daily, 0.19 ft³/s, September 16-25, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1.8 ft³/s, April 19-21, gage height, 5.29 ft; minimum daily, 1.2 ft³/s many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.6	1.4	1.2	1.3	1.5
2	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.6	1.4	1.2	1.3	1.5
3	1.4	1.5	1.5	1.5	1.4	1.5	1.4	1.6	1.4	1.2	1.3	1.5
4	1.4	1.5	1.5	1.5	1.4	1.5	1.4	1.6	1.4	1.2	1.3	1.5
5	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.6	1.4	1.2	1.3	1.5
6	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.6	1.3	1.2	1.3	1.5
7	1.4	1.5	1.5	1.5	1.5	1.4	1.4	1.6	1.3	1.2	1.3	1.5
8	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.6	1.3	1.2	1.3	1.5
9	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.6	1.3	1.2	1.3	1.5
10	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.6	1.3	1.2	1.4	1.5
11	1.4	1.5	1.5	1.4	1.4	1.5	1.4	1.6	1.3	1.2	1.4	1.5
12	1.4	1.4	1.5	1.4	1.4	1.5	1.4	1.6	1.3	1.2	1.4	1.5
13	1.4	1.5	1.5	1.4	1.4	1.5	1.4	1.6	1.3	1.2	1.4	1.5
14	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.5	1.2	1.2	1.4	1.5
15	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.5	1.2	1.3	1.4	1.5
16	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.3	1.3	1.4	1.5
17	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.3	1.3	1.4	1.5
18	1.4	1.4	1.4	1.5	1.4	1.4	1.5	1.5	1.3	1.3	1.4	1.5
19	1.4	1.4	1.4	1.5	1.4	1.5	1.7	1.5	1.3	1.3	1.4	1.5
20	1.4	1.4	e1.4	1.5	1.4	1.5	1.8	1.5	1.3	1.3	1.4	1.5
21	1.4	1.4	e1.4	1.4	1.4	1.5	1.8	1.5	1.3	1.3	1.4	1.5
22	1.4	1.4	e1.4	1.4	1.4	1.5	1.7	1.5	1.3	1.3	1.4	1.5
23	1.4	1.5	1.4	1.4	1.4	1.5	1.7	1.5	1.2	1.3	1.4	1.5
24	1.4	1.4	1.4	1.4	1.4	1.5	1.6	1.5	1.2	1.3	1.4	1.5
25	1.5	1.4	1.5	1.4	1.4	1.5	1.7	1.5	1.2	1.3	1.4	1.5
26	1.5	1.4	1.5	1.4	1.4	1.5	1.7	1.5	1.2	1.3	1.4	1.5
27	1.5	1.4	1.4	1.4	1.4	1.4	1.7	1.5	1.2	1.3	1.4	1.5
28	1.5	1.4	1.4	1.4	1.4	1.4	1.6	1.5	1.2	1.3	1.5	1.5
29	1.5	1.4	1.4	1.4	---	1.4	1.6	1.4	1.2	1.3	1.5	1.5
30	1.5	1.5	1.4	1.4	---	1.4	1.6	1.4	1.2	1.3	1.5	1.5
31	1.5	---	1.5	1.4	---	1.4	---	1.4	---	1.3	1.5	---
TOTAL	44.1	43.3	45.2	44.4	39.3	44.7	45.6	47.5	38.5	38.9	42.9	45.0
MEAN	1.42	1.44	1.46	1.43	1.40	1.44	1.52	1.53	1.28	1.25	1.38	1.50
MAX	1.5	1.5	1.5	1.5	1.5	1.5	1.8	1.6	1.4	1.3	1.5	1.5
MIN	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.3	1.5
AC-FT	87	86	90	88	78	89	90	94	76	77	85	89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	.77	.77	.75	.79	.80	.85	.88	.82	.72	.67
MAX	1.51	1.44	1.46	1.72	1.50	1.49	1.52	1.53	1.28	1.25
(WY)	1998	1999	1999	1997	1997	1997	1999	1999	1999	1999
MIN	.26	.27	.29	.26	.29	.39	.37	.29	.25	.25
(WY)	1993	1993	1993	1992	1993	1991	1992	1992	1992	1993

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1990 - 1999

	1998	1999	1990-1999
ANNUAL TOTAL	491.7	519.4	
ANNUAL MEAN	1.35	1.42	.80
HIGHEST ANNUAL MEAN			1.42
LOWEST ANNUAL MEAN			.31
HIGHEST DAILY MEAN	2.0 Mar 24	1.8 Apr 20	3.6 Jan 2 1997
LOWEST DAILY MEAN	1.2 Mar 9	1.2 Jun 14	.19 Sep 16 1991
ANNUAL SEVEN-DAY MINIMUM	1.2 Mar 9	1.2 Jun 23	.19 Sep 16 1991
INSTANTANEOUS PEAK FLOW		1.8 Apr 19	4.0 Jan 2 1997
INSTANTANEOUS PEAK STAGE		5.29 Apr 19	5.68 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	975	1030	582
10 PERCENT EXCEEDS	1.5	1.5	1.4
50 PERCENT EXCEEDS	1.3	1.4	.53
90 PERCENT EXCEEDS	1.2	1.3	.27

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
103367592 EAGLE ROCK CREEK NEAR STATELINE, NV--Continued

WATER-QUALITY RECORDS

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

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	
OCT									
26...	1335	1.3	--	--	--	52	8.0	4.5	
NOV									
30...	1510	1.6	--	--	--	51	1.0	3.5	
DEC									
22...	1520	1.0	--	--	--	49	-9.0	.5	
JAN									
22...	1050	1.4	--	--	--	50	2.0	2.5	
FEB									
25...	1525	1.5	--	--	--	50	-.5	2.0	
MAR									
29...	1330	1.4	--	--	--	51	8.0	3.5	
APR									
14...	1255	1.4	--	--	--	52	8.0	4.0	
21...	1805	1.6	--	--	--	50	6.0	3.5	
26...	1100	1.5	--	--	--	51	7.0	3.5	
MAY									
07...	1400	1.6	--	--	--	51	13.0	5.5	
12...	1855	1.6	--	--	--	50	9.0	4.5	
19...	1310	1.5	--	--	--	53	15.5	6.5	
25...	1105	1.5	--	--	--	53	15.5	6.0	
JUN									
01...	1300	1.5	595	99	9.4	54	16.0	7.0	
08...	1200	1.4	--	--	--	53	13.0	5.0	
18...	1050	1.0	--	--	--	55	18.5	6.5	
23...	1330	1.0	--	--	--	56	23.0	9.0	
JUL									
12...	1340	.99	--	--	--	56	26.5	9.5	
AUG									
18...	1415	1.3	--	--	--	53	22.5	8.0	
SEP									
20...	1540	1.1	--	--	--	52	17.5	7.5	
DATE		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO-REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, DIS-CHARGE, SUS-PENDE (T/DAY) (80155)	SEDI-MENT, SUS-PENDE (MG/L) (80154)
OCT									
26...	.003	.06	.003	.010	.023	177	.02	5	
NOV									
30...	.001	.10	.014	.013	.029	363	.03	8	
DEC									
22...	.001	.08	.013	.009	.020	162	.01	2	
JAN									
22...	.002	.08	.015	.013	.033	271	.02	5	
FEB									
25...	.001	.12	.018	.011	.019	188	.01	3	
MAR									
29...	.003	.05	.017	.009	.022	157	.02	4	
APR									
14...	<.001	.08	.021	.009	.025	267	.02	5	
21...	.001	.16	.019	.009	.027	745	.08	18	
26...	.001	.15	.024	.010	.027	311	.03	7	
MAY									
07...	.002	.14	.023	.010	.029	397	.05	11	
12...	.001	.13	.029	.007	.041	547	.08	18	
19...	.001	.12	.018	.011	.034	336	.04	9	
25...	.003	.14	.021	.011	.033	378	.03	8	
JUN									
01...	.001	.12	.011	.009	.029	306	.02	6	
08...	.003	.05	.012	.010	.024	276	.01	2	
18...	.001	.07	.008	.011	.023	232	.01	5	
23...	.002	.08	.007	.011	.024	250	.01	4	
JUL									
12...	.001	<.04	.005	.009	.022	202	.01	4	
AUG									
18...	<.001	.05	.007	.011	.027	222	.01	2	
SEP									
20...	.002	<.04	.006	.011	.033	222	.02	6	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336760 EDGEWOOD CREEK AT STATELINE, NV
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'58", long 119°56'10", in NE 1/4 NE 1/4 sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, at upstream side of culvert on U.S. Highway 50, and 0.5 mi northeast of Stateline.

DRAINAGE AREA.--5.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to February 1980 (operated as partial record site), October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 6,280 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge affected by slight regulation and diversion for irrigation. See schematic diagram of Pyramid and Winnemucca Lakes Basin section.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136 ft³/s, January 2, 1997, gage height, 6.14 ft; minimum daily, 1.1 ft³/s, September 28, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20 ft³/s, May 13; gage height, 4.69 ft; maximum gage height, 4.93 ft, July 23, 26, 27, backwater from sandbags during constructions; minimum daily, 2.7 ft³/s, July 16, 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	5.7	7.6	5.8	6.4	8.1	11	15	9.7	5.2	3.6	4.4
2	6.7	5.7	7.4	5.8	6.4	8.2	11	16	9.0	5.0	3.5	4.5
3	6.2	5.6	7.1	5.7	6.4	8.8	10	16	10	5.0	3.5	4.4
4	6.0	5.5	6.8	5.6	6.5	9.0	10	15	13	5.2	3.4	4.4
5	6.2	5.5	6.6	5.6	6.6	8.8	10	15	15	5.3	3.5	4.4
6	6.1	5.5	6.5	5.6	6.5	8.5	10	16	14	5.3	3.8	4.3
7	6.0	5.5	6.4	5.6	7.1	8.3	10	17	14	5.4	4.2	4.3
8	6.0	6.9	6.6	5.6	7.8	8.0	9.8	18	13	5.0	4.4	4.2
9	5.9	6.7	6.6	5.6	7.9	7.9	9.8	19	11	5.0	4.6	3.6
10	5.7	5.9	6.5	5.6	8.0	7.8	9.9	19	11	4.7	4.9	5.1
11	5.7	5.5	6.4	5.6	7.5	7.6	10	18	11	4.6	5.3	4.9
12	5.6	4.8	6.2	5.6	7.2	7.5	10	18	9.1	4.1	5.1	4.7
13	5.6	4.9	6.2	5.6	7.0	7.5	11	19	8.4	3.8	4.9	4.5
14	5.6	5.1	6.2	5.6	7.0	7.6	12	17	8.5	3.7	4.9	4.4
15	5.6	5.1	6.1	5.6	6.9	7.7	13	17	8.4	3.5	4.7	4.3
16	5.6	4.6	6.0	6.0	6.8	7.7	13	16	8.4	2.7	4.4	4.2
17	5.6	3.0	6.1	6.2	7.5	8.0	14	16	8.2	2.7	4.2	4.0
18	5.6	7.4	5.9	6.5	8.3	8.4	17	16	7.5	2.9	4.1	4.0
19	5.6	6.8	5.9	6.8	8.1	11	18	16	7.6	3.2	4.0	4.1
20	5.6	6.4	6.0	8.1	7.2	12	18	14	8.0	3.5	3.9	4.2
21	5.7	6.0	5.9	8.3	7.2	11	19	14	8.3	3.7	3.8	4.2
22	5.8	5.9	6.0	7.9	7.1	10	18	14	8.2	3.8	3.8	4.2
23	5.8	6.2	6.0	9.0	7.0	10	18	14	8.1	4.3	3.8	4.5
24	5.7	7.0	6.0	7.4	7.0	11	17	14	8.0	5.1	3.8	4.5
25	5.8	7.0	6.0	6.6	7.2	11	16	15	7.6	5.1	3.7	6.0
26	6.0	6.9	6.0	6.6	7.2	11	16	15	7.1	5.1	3.7	5.7
27	6.0	6.8	5.8	6.6	7.2	12	16	15	6.6	5.2	4.3	5.4
28	6.0	6.7	5.8	6.6	7.5	12	16	15	6.2	4.7	4.4	5.4
29	6.0	6.7	5.8	6.6	---	12	16	14	5.8	4.1	4.4	5.4
30	6.0	7.4	5.8	6.6	---	11	15	13	5.5	3.9	4.4	5.3
31	5.7	---	5.8	6.6	---	11	---	13	---	3.7	4.4	---
TOTAL	182.1	178.7	194.0	196.9	200.5	290.4	404.5	489	276.2	134.5	129.4	137.5
MEAN	5.87	5.96	6.26	6.35	7.16	9.37	13.5	15.8	9.21	4.34	4.17	4.58
MAX	6.7	7.4	7.6	9.0	8.3	12	19	19	15	5.4	5.3	6.0
MIN	5.6	3.0	5.8	5.6	6.4	7.5	9.8	13	5.5	2.7	3.4	3.6
AC-FT	361	354	385	391	398	576	802	970	548	267	257	273

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999
MEAN	3.32	3.71	4.15	5.59	4.88	6.98	8.80
MAX	5.87	5.96	6.50	14.4	7.16	9.83	13.5
(WY)	1999	1999	1997	1997	1999	1998	1999
MIN	1.49	1.69	1.48	2.10	2.15	2.57	2.92
(WY)	1993	1993	1993	1993	1993	1994	1994

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1993 - 1999

	1998	1999	1993-1999
ANNUAL TOTAL	2667.4	2813.7	
ANNUAL MEAN	7.31	7.71	5.22
HIGHEST ANNUAL MEAN			7.71
LOWEST ANNUAL MEAN			2.17
HIGHEST DAILY MEAN	39	19	102
LOWEST DAILY MEAN	3.0	2.7	1.1
ANNUAL SEVEN-DAY MINIMUM	4.1	3.2	1.3
INSTANTANEOUS PEAK FLOW		20	136
INSTANTANEOUS PEAK STAGE		4.93	6.14
ANNUAL RUNOFF (AC-FT)	5290	5580	3780
10 PERCENT EXCEEDS	12	15	9.8
50 PERCENT EXCEEDS	6.0	6.4	4.4
90 PERCENT EXCEEDS	4.4	4.2	1.7

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10336760 EDGEWOOD CREEK AT STATELINE, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992 to current year.

REMARKS.--In August 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN, DIS-SOLVED (MG/L)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	
		(00061)	(00025)	(00301)	(00300)	(00095)	(00020)	(00010)	
NOV									
30...	1545	7.5	--	--	--	180	1.5	3.0	
DEC									
22...	1540	6.0	--	--	--	112	-12.0	.5	
JAN									
22...	1155	7.9	--	--	--	133	4.0	1.5	
FEB									
17...	1145	7.3	--	--	--	197	3.5	2.5	
25...	1635	7.3	--	--	--	160	-1.5	2.0	
MAR									
17...	1445	7.9	--	--	--	185	6.5	3.5	
29...	1425	12	--	--	--	169	7.5	4.0	
APR									
14...	1140	12	--	--	--	193	7.0	3.5	
21...	1840	19	--	--	--	141	7.5	4.5	
22...	1210	19	--	--	--	156	3.0	4.5	
26...	1005	16	--	--	--	148	8.0	5.0	
MAY									
07...	1305	17	--	--	--	131	12.5	5.5	
10...	1315	19	--	--	--	128	12.5	5.0	
12...	1930	19	--	--	--	121	8.5	7.0	
19...	1515	16	--	--	--	131	17.5	6.5	
25...	1155	15	--	--	--	125	14.5	7.5	
JUN									
01...	1420	8.1	599	105	9.5	122	16.5	9.0	
08...	1255	12	--	--	--	123	14.0	6.5	
18...	1145	7.5	--	--	--	138	20.0	9.5	
JUL									
12...	1430	4.1	--	--	--	142	28.0	14.0	
AUG									
18...	1530	4.1	--	--	--	122	23.0	11.0	
SEP									
20...	1450	4.2	--	--	--	117	18.5	9.0	
DATE		NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT-IVE TOTAL (UG/L AS FE) (46568)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
NOV									
30...	.002	.13	.015	.013	.041	788	.18	9	
DEC									
22...	.006	.11	.028	.009	.021	342	.05	3	
JAN									
22...	.008	.10	.027	.011	.025	376	.06	3	
FEB									
17...	.008	.14	.031	.009	.032	597	.10	5	
25...	.016	.14	.034	.010	.023	490	.08	4	
MAR									
17...	.004	.10	.034	.006	.023	480	.19	9	
29...	.003	.12	.034	.008	.030	566	.19	6	
APR									
14...	.001	.17	.042	.007	.045	878	.32	10	
21...	.003	.20	.037	.011	.046	747	.56	11	
22...	.002	.23	.028	.008	.051	826	.51	10	
26...	.003	.23	.033	.010	.046	847	.35	8	
MAY									
07...	.001	.22	.026	.010	.037	731	.32	7	
10...	.003	.27	.025	.010	.032	531	.31	6	
12...	.003	.25	.027	.010	.042	878	.51	10	
19...	.003	.13	.026	.011	.034	604	.30	7	
25...	.003	.20	.025	.010	.043	722	.36	9	
JUN									
01...	.002	.15	.016	.010	.033	575	.11	5	
08...	.005	.12	.016	.010	.031	545	.03	1	
18...	.002	.14	.014	.010	.023	542	.06	3	
JUL									
12...	.004	.10	.013	.012	.037	730	.07	6	
AUG									
18...	.002	.06	.010	.010	.032	426	.03	3	
SEP									
20...	.002	.05	.010	.009	.031	382	.03	3	

PYRAMID AND WINNEMUCCA LAKES BASIN

385758119561101 CULVERT-HWY 50 RUNOFF INTO EDGEWOOD CREEK-LEFT BANK, UPSTREAM, HIGHWAY 50, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'58", long 119°56'11", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.13 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on left bank, downstream end 8" culvert at upstream side of Edgewood Creek culvert on U.S. Highway 50 and 0.5 mi northeast of Stateline.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Water years 1995 to current year.

REMARKS.--In January 1995, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L) AS N) (00625)
FEB 17...	1200	.05	3000	3.5	3.5	.271	3.2

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	PHOS- PHORUS TOTAL (MG/L) AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L) AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
FEB 17...	.208	.032	3.79	67500	.21	1560

PYRAMID AND WINNEMUCCA LAKES BASIN

385758119564401 EDGEWOOD CREEK TRIBUTARY ABOVE EDGEWOOD CLUBHOUSE NEAR STATELINE, NV

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°57'58", long 119°56'44", in NE¹/₄ NW¹/₄ 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, July 1994, October 1996, March 1998 to current year.

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. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
APR 21...	1545	1.6	126	12.0	11.0	.022	.47
MAY 12...	1630	.83	100	10.5	12.0	.002	.24

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)
APR 21...	.033	.015	.089	1360	.05	11
MAY 12...	.012	.021	.062	850	.02	9

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.

PERIOD OF RECORD.--Water years 1984-85, 1989 to current year.

REMARKS.--In December 1988, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR							
29...	1210	7.0	171	9.0	5.0	.007	.14
APR							
16...	1555	13	181	16.0	8.0	<.001	.32
21...	1630	18	150	12.0	8.5	.005	.30
26...	0915	17	144	9.0	7.0	.004	.23
MAY							
12...	1730	17	127	12.5	10.5	.005	.25
19...	1140	16	125	10.0	8.5	.001	.21
25...	1020	14	124	10.5	12.0	.002	.18
JUN							
09...	1625	9.0	135	13.0	12.0	.002	.12
SEP							
20...	1400	5.0	126	21.0	14.5	.004	.12

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY) (80155)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)
MAR						
29...	.020	.009	.034	549	.08	4
APR						
16...	.030	.010	.054	885	.31	9
21...	.027	.006	.057	1110	.48	10
26...	.021	.005	.040	759	.27	6
MAY						
12...	.020	.007	.038	679	.28	6
19...	.013	.008	.038	605	.17	4
25...	.018	.004	.036	623	.23	6
JUN						
09...	.013	.007	.031	672	.07	3
SEP						
20...	.008	.004	.029	667	.05	4

PYRAMID AND WINNEMUCCA LAKES BASIN

10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°51'48", long 119°57'26", in NE 1/4 NW 1/4 sec.26, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, 50 ft downstream from U.S. Forest Service Road 12N01, about 2.2 mi upstream from confluence of Saxon Creek, and 2.6 mi northeast of Meyers.

DRAINAGE AREA.--7.40 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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 166 ft³/s, June 27, 1995, gage height, 6.19 ft; minimum daily, 1.9 ft³/s, December 21, 1990.

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)
May 28	1930	*102	*5.68	June 13	2000	86	5.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	7.1	e6.7	6.4	5.6	5.5	6.2	12	68	31	11	9.2
2	9.6	6.6	e6.7	6.3	5.7	5.5	6.0	12	63	30	e11	8.5
3	9.3	6.5	e6.6	6.1	5.7	5.6	6.3	11	54	28	e11	7.4
4	9.3	6.4	e6.6	6.0	5.7	5.4	5.9	11	45	27	e11	7.1
5	8.6	6.5	e6.6	6.2	5.5	5.4	5.9	13	47	27	e10	7.7
6	8.5	6.5	e6.5	6.1	5.5	5.4	5.9	17	53	28	10	7.8
7	8.5	6.9	e6.5	6.2	6.3	5.3	5.8	20	49	24	10	7.8
8	8.3	6.7	e6.5	6.2	6.0	5.2	5.9	22	46	21	10	7.6
9	8.3	6.7	e6.4	5.9	e6.0	e5.2	5.7	20	46	21	11	7.7
10	8.3	6.7	e6.4	6.1	e5.9	e5.2	5.6	20	49	20	12	8.1
11	8.1	6.7	6.4	6.1	e5.8	5.2	5.6	24	53	19	11	7.7
12	7.9	7.5	6.2	6.1	5.8	5.2	5.8	25	58	19	10	7.1
13	7.8	6.8	6.0	5.9	5.6	5.5	6.6	26	62	18	9.6	6.9
14	7.9	6.9	5.7	5.6	5.6	5.5	7.3	24	63	17	9.8	e6.8
15	8.0	6.8	5.7	6.0	5.6	5.4	7.6	23	65	16	9.6	e6.8
16	7.8	6.8	5.9	5.9	6.0	5.4	8.4	25	65	15	9.5	7.3
17	7.6	6.8	5.9	6.2	6.3	5.7	9.9	28	65	15	8.6	7.4
18	7.5	6.7	6.1	6.8	6.1	5.9	11	30	63	15	9.6	8.1
19	7.5	7.5	5.8	6.6	5.9	5.9	13	33	63	15	9.0	7.8
20	7.4	6.8	e5.8	5.7	5.9	5.8	13	35	59	14	9.4	6.7
21	7.2	6.7	e5.8	6.2	5.9	5.6	13	39	59	14	8.8	6.6
22	7.1	7.3	e5.8	6.1	5.7	5.7	11	46	60	14	9.4	6.3
23	7.0	8.2	e5.8	e6.1	6.0	5.8	9.8	56	57	15	8.6	6.6
24	7.1	7.4	e5.8	e5.8	6.0	5.8	9.5	62	56	13	9.1	6.6
25	7.2	7.1	6.0	e5.5	6.1	6.1	11	76	51	13	9.3	6.2
26	7.6	6.8	5.9	5.3	5.6	6.6	13	79	46	13	9.4	5.9
27	7.4	6.7	6.2	5.2	5.4	6.7	12	85	40	11	9.6	6.2
28	7.1	6.7	5.9	5.7	5.4	6.6	12	85	36	12	9.2	6.1
29	7.0	e6.7	6.2	5.5	---	6.5	10	74	34	11	9.2	6.0
30	6.8	e6.7	6.3	5.6	---	6.3	10	69	33	11	9.2	6.0
31	6.6	---	6.5	5.7	---	6.8	---	71	---	11	9.3	---
TOTAL	244.1	206.2	191.2	185.1	162.6	177.7	258.7	1173	1608	558	304.2	214.0
MEAN	7.87	6.87	6.17	5.97	5.81	5.73	8.62	37.8	53.6	18.0	9.81	7.13
MAX	9.8	8.2	6.7	6.8	6.3	6.8	13	85	68	31	12	9.2
MIN	6.6	6.4	5.7	5.2	5.4	5.2	5.6	11	33	11	8.6	5.9
AC-FT	484	409	379	367	323	352	513	2330	3190	1110	603	424

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

MEAN	5.21	5.42	6.01	7.17	5.56	6.97	10.5	27.0	35.2	18.4	8.16	5.99
MAX	7.87	8.20	14.2	24.9	11.4	14.2	22.3	48.1	84.9	62.1	20.0	10.7
(WY)	1999	1997	1997	1997	1997	1997	1997	1997	1995	1995	1995	1998
MIN	2.91	2.93	2.63	2.59	2.65	3.25	5.18	8.81	4.10	3.60	3.36	3.32
(WY)	1993	1993	1993	1991	1991	1991	1991	1992	1992	1992	1994	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1990 - 1999
ANNUAL TOTAL	5595.1	5282.8	
ANNUAL MEAN	15.3	14.5	12.3
HIGHEST ANNUAL MEAN			19.8
LOWEST ANNUAL MEAN			4.48
HIGHEST DAILY MEAN	78	85	130
LOWEST DAILY MEAN	4.2	5.2	1.9
ANNUAL SEVEN-DAY MINIMUM	4.3	5.2	2.4
INSTANTANEOUS PEAK FLOW		102	166
INSTANTANEOUS PEAK STAGE		5.68	6.19
ANNUAL RUNOFF (AC-FT)	11100	10480	8890
10 PERCENT EXCEEDS	46	42	28
50 PERCENT EXCEEDS	8.0	7.2	6.3
90 PERCENT EXCEEDS	4.7	5.7	3.2

e Estimated

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.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in record due to loss of hydrologic communication with stream channel. Water temperature records for September 1997 were not published but are available from the U.S. Geological Survey, in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 13.0°C, July 12-14, 1999; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.0°C, July 12-14; minimum, freezing point, many days November to March.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE,	BARO-	OXYGEN,	OXYGEN,	SPE-	TEMPER-	TEMPER-	
		INST.	METRIC	DIS-		CIFIC			
		CUBIC	PRES-	SOLVED		CON-			
		FEET	SURE	(PER-		DUCT-			
PER	(MM	CENT	ANCE	TEMPER-	TEMPER-				
SECOND	OF	SATUR-	(DEG C)	ATURE	ATURE				
(00061)	HG)	ATION)	(MG/L)	AIR	WATER				
		(00025)	(00301)	(00300)	(00095)	(00020)	(00010)		
OCT									
29...	1130	7.5	--	--	--	47	4.5	3.5	
NOV									
25...	1005	6.9	--	--	--	46	.0	1.0	
DEC									
18...	1235	5.9	--	--	--	47	4.0	1.0	
JAN									
06...	1110	5.9	--	--	--	47	1.0	1.0	
FEB									
26...	1200	5.4	--	--	--	49	5.0	1.0	
APR									
02...	0925	5.0	--	--	--	48	-1.5	1.0	
MAY									
10...	0955	18	--	--	--	31	6.5	2.0	
26...	1615	79	--	--	--	20	19.5	4.5	
JUN									
03...	1650	51	583	100	10.3	23	1.0	3.0	
09...	1225	44	--	--	--	24	11.5	5.0	
14...	1405	57	--	--	--	21	20.5	9.0	
JUL									
07...	1445	22	--	--	--	30	23.0	11.5	
AUG									
19...	1210	8.9	--	--	--	45	20.5	8.0	
SEP									
21...	1440	6.2	--	--	--	50	21.0	8.5	
DATE		NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO- REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SEDI- MENT, SUS- PENDED (MG/L) (80154)
OCT									
29...	.003	.07	.003	.008	.017	89	<.02	<1	
NOV									
25...	.002	.08	.003	.007	.014	78	<.02	<1	
DEC									
18...	<.001	.05	.012	.009	.015	80	<.02	<1	
JAN									
06...	.002	.05	.018	.010	.018	86	.03	2	
FEB									
26...	.002	.07	.022	.010	.016	83	.20	14	
APR									
02...	.002	.06	.022	.009	.016	94	.04	3	
MAY									
10...	.002	.15	.016	.008	.022	236	.15	3	
26...	.002	.27	.012	.009	.056	1390	11	52	
JUN									
03...	<.001	.10	.004	.006	.026	269	1.8	13	
09...	<.001	.06	.006	.007	.018	304	.72	6	
14...	<.001	.07	.003	.008	.023	155	1.4	9	
JUL									
07...	<.001	.07	.003	.010	.027	181	.35	6	
AUG									
19...	.003	<.04	.006	.010	.024	100	.05	2	
SEP									
21...	.002	.04	.005	.009	.025	100	.02	1	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	8.0	5.5	6.5	3.5	2.0	3.0	1.0	.0	.5	1.5	.5	1.0
2	6.5	5.0	6.0	2.5	.5	1.5	2.0	.5	1.5	1.5	.5	1.0
3	5.5	3.5	4.5	3.5	1.5	2.5	2.0	.0	1.5	1.0	.5	1.0
4	5.0	2.5	3.5	3.5	1.5	2.5	.0	.0	.0	1.5	.5	1.0
5	5.5	3.0	4.0	2.5	1.5	2.0	.0	.0	.0	1.5	1.0	1.0
6	6.0	3.0	4.5	1.5	.5	1.0	.0	.0	.0	2.0	.5	1.5
7	6.0	3.5	4.5	2.0	.5	1.0	.5	.0	.0	2.0	1.0	1.5
8	6.0	4.0	5.0	1.0	.0	.5	1.0	.5	1.0	1.5	1.0	1.0
9	5.5	2.5	4.0	1.0	.0	.5	1.0	.0	.5	1.5	.5	1.0
10	4.5	1.5	3.0	2.0	.5	1.0	1.5	.5	1.0	1.5	.5	1.0
11	5.0	2.0	3.5	2.0	.5	1.5	2.0	1.5	1.5	2.0	1.0	1.5
12	5.5	3.0	4.0	1.5	.0	.5	2.0	1.0	1.5	2.0	1.0	1.5
13	5.5	3.5	4.5	2.5	1.0	1.5	2.0	1.5	2.0	2.0	1.0	1.5
14	5.0	3.0	4.0	3.0	1.5	2.0	2.0	.5	1.0	2.0	1.0	1.5
15	4.0	2.5	3.5	3.0	1.5	2.0	2.0	1.0	1.5	2.5	1.5	2.0
16	3.5	2.0	2.5	3.0	1.0	2.0	2.5	1.5	2.0	2.0	1.0	1.5
17	3.5	1.0	2.0	2.5	.5	1.5	2.0	1.5	1.5	2.0	1.5	2.0
18	3.5	1.5	2.5	1.0	.0	.5	1.5	.5	1.0	2.0	.0	1.0
19	4.0	1.5	2.5	1.0	.0	.5	1.0	.0	.5	1.0	.0	.5
20	4.0	2.5	3.0	1.5	.0	1.0	.0	.0	.0	.5	.0	.0
21	5.0	2.5	3.5	2.5	1.5	2.0	.0	.0	.0	.5	.0	.0
22	4.5	3.0	3.5	2.0	1.5	2.0	.0	.0	.0	1.5	.5	1.0
23	4.5	2.5	3.5	2.5	.5	2.0	.0	.0	.0	1.5	.0	.5
24	4.5	3.0	3.5	1.5	.5	1.0	.5	.0	.0	.0	.0	.0
25	3.0	2.0	2.5	2.0	1.0	1.5	1.5	.5	1.0	1.0	.0	.5
26	4.5	3.0	3.5	2.0	1.0	1.5	1.5	1.0	1.5	1.0	.5	1.0
27	4.5	2.5	3.5	2.5	2.0	2.0	1.5	1.0	1.5	1.0	.0	.5
28	5.0	3.5	4.0	2.0	1.5	2.0	2.0	1.5	1.5	1.0	.0	.5
29	4.0	2.5	3.5	2.0	1.0	1.0	1.5	1.0	1.5	1.0	.0	.5
30	2.5	1.0	2.0	2.0	.0	1.5	2.0	1.0	1.5	1.5	.5	1.0
31	3.0	.5	2.0	---	---	---	2.0	1.0	1.5	1.5	1.0	1.0
MONTH	8.0	.5	3.6	3.5	.0	1.5	2.5	.0	.9	2.5	.0	1.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.0	.0	.5	3.0	2.0	2.0	1.5	.0	1.0	4.5	2.0	3.0
2	1.5	.0	.5	2.5	1.0	2.0	---	---	---	3.5	2.0	2.5
3	2.0	1.0	1.5	2.5	2.0	2.0	---	---	---	3.0	1.0	2.0
4	2.0	1.5	2.0	2.0	1.0	2.0	---	---	---	4.5	1.0	2.5
5	2.0	1.0	1.5	2.0	.5	1.0	---	---	---	5.5	1.5	3.0
6	1.5	.5	1.0	2.0	1.0	1.5	---	---	---	5.5	2.0	3.0
7	1.0	.0	.5	1.5	.5	1.0	---	---	---	5.0	2.0	2.5
8	.5	.0	.5	1.5	1.0	1.0	---	---	---	5.0	1.5	2.5
9	.5	.0	.0	1.0	.0	.5	---	---	---	4.5	1.0	2.5
10	.0	.0	.0	1.5	.0	.5	---	---	---	4.0	1.5	2.5
11	.5	.0	.0	1.5	1.0	1.5	---	---	---	5.5	2.0	3.0
12	1.5	.5	1.0	2.0	.0	1.0	---	---	---	4.5	1.5	2.5
13	1.5	1.0	1.5	2.5	1.5	2.0	---	---	---	5.0	1.5	2.5
14	2.0	1.0	1.5	2.5	1.5	2.0	---	---	---	4.5	1.0	2.5
15	1.5	.5	1.0	2.5	1.5	2.0	---	---	---	5.0	1.0	2.5
16	2.0	1.5	1.5	2.5	1.5	2.0	---	---	---	5.5	1.5	2.5
17	2.0	1.0	1.5	3.0	1.5	2.0	---	---	---	5.5	1.5	3.0
18	2.0	.5	1.5	3.0	1.5	2.5	---	---	---	4.5	1.5	2.5
19	1.5	.0	1.0	3.0	2.0	2.5	---	---	---	5.5	1.5	3.0
20	1.5	.5	1.0	2.5	2.0	2.0	3.5	2.0	2.5	5.0	2.0	3.0
21	1.0	.0	.5	2.5	1.0	2.0	3.5	1.5	2.5	6.0	2.0	3.0
22	2.0	1.0	1.5	2.5	.5	1.5	3.0	1.0	2.0	6.0	2.0	3.0
23	2.0	1.0	1.5	3.0	1.5	2.5	---	---	---	5.5	2.0	3.0
24	2.0	1.5	1.5	3.0	1.5	2.5	---	---	---	4.5	2.0	3.0
25	2.0	.5	1.0	3.5	2.0	2.5	---	---	---	6.0	2.0	3.0
26	2.0	.0	1.0	3.5	2.0	2.5	3.5	2.0	2.5	5.0	2.0	3.0
27	2.5	2.0	2.0	3.0	1.0	2.0	4.5	1.5	2.5	6.5	2.0	3.5
28	2.5	1.5	2.0	2.5	1.0	2.0	1.5	1.0	1.0	6.5	2.5	3.5
29	---	---	---	3.0	1.0	2.0	2.5	1.0	2.0	5.0	2.0	3.5
30	---	---	---	2.5	.5	1.5	---	---	---	7.0	2.5	4.0
31	---	---	---	1.0	.0	.5	---	---	---	7.0	2.5	4.0
MONTH	2.5	.0	1.1	3.5	.0	1.8	---	---	---	7.0	1.0	2.9

1PYRAMID AND WINNEMUCCA LAKES BASIN

10336770 TROUT CREEK AT U.S. FOREST SERVICE ROAD 12N01 NEAR MEYERS, CA--Continued

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.0	2.5	4.0	12.5	7.5	10.0	11.5	7.0	9.0	7.5	3.5	5.5
2	5.0	2.0	3.5	12.0	8.0	9.5	11.0	6.0	8.5	8.0	4.0	6.0
3	3.5	1.5	2.5	11.5	7.0	9.0	11.0	6.0	8.5	8.5	3.5	6.0
4	4.0	2.5	3.0	11.0	6.5	8.5	9.5	6.5	8.0	9.0	4.0	6.5
5	8.0	3.0	5.0	11.5	6.5	9.0	11.0	6.5	8.5	9.5	4.5	7.0
6	7.5	3.0	4.5	12.0	6.5	9.0	8.5	7.0	8.0	10.0	5.0	7.5
7	7.0	2.0	4.0	12.0	8.0	10.0	10.0	5.5	7.5	10.0	4.5	7.0
8	7.5	2.0	4.0	12.0	7.0	9.5	9.5	6.0	8.0	10.0	5.0	7.5
9	7.0	1.5	4.0	12.0	6.5	9.0	9.5	6.5	8.0	9.0	5.0	7.0
10	8.0	2.0	5.0	11.5	7.5	9.5	8.5	7.0	7.5	9.0	5.0	7.0
11	8.5	3.0	5.5	12.5	8.0	10.0	9.5	5.5	7.5	9.5	5.0	7.0
12	9.0	3.0	5.5	13.0	8.5	10.5	10.5	6.0	8.5	9.5	5.0	7.5
13	9.5	3.5	6.0	13.0	9.5	11.0	10.5	6.5	8.5	9.0	4.5	7.0
14	10.0	3.5	6.5	13.0	8.5	10.5	10.0	5.5	7.5	9.0	4.5	6.5
15	8.0	4.0	6.0	12.0	8.0	10.0	10.0	5.0	7.5	8.5	3.5	6.0
16	10.0	4.0	7.0	11.5	7.5	9.5	10.5	6.0	8.5	9.0	4.0	6.5
17	11.0	4.5	7.5	11.5	7.0	9.0	11.0	6.5	8.5	9.0	4.0	6.5
18	10.0	4.0	7.0	11.0	6.0	8.5	11.0	7.5	9.0	8.0	6.0	7.0
19	10.5	5.0	7.5	11.5	7.0	9.0	11.5	7.0	9.0	9.0	4.5	6.5
20	11.0	4.5	7.5	11.0	6.5	8.5	11.5	6.5	9.0	8.5	4.5	6.5
21	10.5	6.0	8.0	11.0	6.0	8.5	11.0	6.5	8.5	8.5	4.0	6.5
22	12.0	6.0	8.5	11.5	6.0	8.5	11.0	7.5	9.0	9.0	5.5	7.0
23	11.5	6.0	9.0	11.5	6.5	8.5	11.0	7.5	9.0	9.0	5.5	7.0
24	11.0	6.5	8.5	11.0	6.5	8.5	11.5	6.5	9.0	9.0	4.5	7.0
25	10.5	5.0	7.5	11.5	6.0	8.5	12.0	7.0	9.5	9.5	4.5	7.0
26	10.5	4.5	7.0	12.0	7.0	9.5	10.5	8.0	9.0	9.0	4.5	7.0
27	11.0	4.5	7.5	11.5	6.5	9.0	10.5	7.5	9.0	8.0	3.5	6.0
28	11.5	5.5	8.5	11.0	7.0	9.0	11.0	6.0	8.5	7.5	2.5	5.0
29	11.5	6.5	9.0	12.0	7.0	9.0	11.5	6.5	8.5	9.0	3.5	6.0
30	12.5	7.0	9.5	11.5	6.5	9.0	9.5	5.0	7.5	9.0	4.0	6.5
31	---	---	---	11.5	7.0	9.0	8.5	3.5	5.5	---	---	---
MONTH	12.5	1.5	6.3	13.0	6.0	9.2	12.0	3.5	8.3	10.0	2.5	6.6

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA

(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°54'13", long 119°58'04", in SE 1/4 NE 1/4 sec.10, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 200 ft upstream of Pioneer Trail Road, 0.6 mi upstream of confluence of Cold Creek, and 2.8 mi south of South Lake Tahoe.

DRAINAGE AREA.--23.1 mi² revised.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,270 ft above sea level, from topographic map. Prior to May 1, 1992, at datum 0.12 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 525 ft³/s, January 2, 1997, gage height, 7.59 ft; minimum daily, 2.0 ft³/s, December 22, 1990.

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)
May 28	2245	*183	*3.77	June 14	2400	147	3.44

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e16	16	19	e12	17	22	26	51	135	72	22	15
2	e16	15	19	e12	17	22	23	55	130	67	21	16
3	e16	15	18	e11	17	25	21	51	115	63	21	15
4	e16	15	16	e11	17	25	22	47	105	59	22	15
5	e16	15	16	e11	15	24	21	51	102	55	22	15
6	e15	15	18	e11	15	22	21	60	108	52	21	15
7	e15	16	18	e13	e17	21	21	69	105	49	21	15
8	e15	15	18	e14	e20	20	18	70	101	46	20	15
9	e16	15	17	15	23	19	e18	67	100	44	21	15
10	e15	15	17	15	25	e19	e20	65	101	41	25	15
11	e16	15	17	15	e25	20	21	74	106	40	25	15
12	e15	16	17	14	25	e20	21	83	113	38	22	13
13	e15	17	17	14	23	20	23	83	119	36	20	13
14	e15	15	16	13	21	20	26	76	129	35	20	13
15	e16	16	16	14	21	20	28	71	133	33	19	13
16	e15	16	15	17	21	20	30	71	134	32	19	13
17	15	16	15	16	e21	21	35	76	135	31	18	13
18	15	16	15	20	e21	23	40	81	129	31	18	13
19	15	17	14	21	e21	24	45	82	128	30	18	14
20	15	18	14	22	e21	23	e48	86	127	29	17	13
21	14	15	e14	20	21	22	e48	90	124	28	17	13
22	14	16	e14	19	21	22	47	100	122	27	17	13
23	14	18	e14	16	20	23	39	112	123	26	17	13
24	15	18	e14	18	19	23	38	123	120	26	16	13
25	16	16	e14	19	19	24	46	141	108	26	16	12
26	17	15	e14	18	22	27	59	149	99	25	16	12
27	17	15	e14	16	19	27	58	153	91	24	17	12
28	16	15	e13	16	19	26	53	159	85	24	16	12
29	16	17	e13	17	---	25	46	150	80	23	15	12
30	16	17	e13	17	---	24	45	134	76	22	15	12
31	15	---	e13	17	---	23	---	139	---	22	15	---
TOTAL	478	476	482	484	563	696	1007	2819	3383	1156	589	408
MEAN	15.4	15.9	15.5	15.6	20.1	22.5	33.6	90.9	113	37.3	19.0	13.6
MAX	17	18	19	22	25	27	59	159	135	72	25	16
MIN	14	15	13	11	15	19	18	47	76	22	15	12
AC-FT	948	944	956	960	1120	1380	2000	5590	6710	2290	1170	809

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1999, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	9.45	10.3	12.3	19.7	16.1	23.0	32.6	62.8	70.4	38.7
MAX	15.4	18.7	34.2	87.8	38.2	42.0	54.9	107	158	142
(WY)	1999	1997	1997	1997	1996	1996	1996	1995	1995	1995
MIN	4.49	5.03	4.05	4.70	5.49	7.85	12.2	14.2	7.66	5.84
(WY)	1991	1991	1991	1991	1993	1992	1991	1992	1992	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1990 - 1999
ANNUAL TOTAL	13188	12541	
ANNUAL MEAN	36.1	34.4	27.7
HIGHEST ANNUAL MEAN			46.9
LOWEST ANNUAL MEAN			7.71
HIGHEST DAILY MEAN	141	159	457
LOWEST DAILY MEAN	12	11	2.0
ANNUAL SEVEN-DAY MINIMUM	13	12	2.8
INSTANTANEOUS PEAK FLOW		183	525
INSTANTANEOUS PEAK STAGE		3.77	7.59
ANNUAL RUNOFF (AC-FT)	26160	24880	20050
10 PERCENT EXCEEDS	97	94	70
50 PERCENT EXCEEDS	18	20	14
90 PERCENT EXCEEDS	14	14	5.0

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In November 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature at probe within 0.5°C. Interruptions in water temperature record due to probe in ice and/or instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 16.0°C, August 30, 1998; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.0°C, July 13, 14, 29, August 1; minimum, freezing point, many days November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								
29...	1015	15	--	--	--	49	6.0	4.0
NOV								
25...	1150	15	--	--	--	50	9.0	1.5
DEC								
18...	1410	16	--	--	--	50	8.0	1.0
JAN								
22...	1455	14	--	--	--	55	2.0	.5
FEB								
26...	1350	30	--	--	--	54	7.0	.5
MAR								
24...	1535	23	--	--	--	56	8.0	4.0
APR								
16...	1255	28	--	--	--	53	13.5	4.0
21...	1810	52	--	--	--	47	7.5	5.0
MAY								
07...	1055	57	--	--	--	41	14.0	3.5
10...	1810	57	--	--	--	42	11.0	6.0
14...	1045	74	--	--	--	38	8.0	3.0
20...	0815	84	--	--	--	34	7.0	2.5
26...	1435	139	--	--	--	28	17.5	6.0
JUN								
03...	1640	117	600	97	10.1	28	1.5	3.5
09...	1110	100	--	--	--	29	12.5	4.0
14...	0955	127	--	--	--	25	17.0	5.0
22...	1400	132	--	--	--	24	23.5	9.5
JUL								
07...	1535	51	--	--	--	31	25.0	13.0
AUG								
18...	1300	18	--	--	--	47	22.5	12.0
SEP								
21...	1550	13	--	--	--	53	21.0	12.0

PYRAMID AND WINNEMUCCA LAKES BASIN

10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
29...	.002	.08	.004	.007	.016	165	<.04	<1
NOV								
25...	.001	.09	.003	.006	.014	209	.04	1
DEC								
18...	<.001	.07	.013	.008	.018	231	.04	1
JAN								
22...	.003	.13	.025	.010	.043	672	.38	10
FEB								
26...	.002	.21	.023	.010	.036	837	1.7	21
MAR								
24...	.003	.13	.015	.005	.022	368	.13	2
APR								
16...	.001	.07	.025	.006	.019	337	.46	6
21...	.001	.14	.022	.007	.039	689	2.4	17
MAY								
07...	<.001	.18	.015	.007	.040	814	3.1	20
10...	.002	.16	.016	.008	.032	608	1.8	12
14...	.001	.19	.015	.007	.037	657	3.2	16
20...	.001	.21	.006	.005	.047	626	4.1	18
26...	.002	.22	.014	.009	.057	1260	14	38
JUN								
03...	<.001	.10	.003	.005	.025	302	5.4	17
09...	.001	.11	.009	.006	.025	391	3.2	12
14...	<.001	.08	.003	.007	.025	242	7.9	23
22...	<.001	.08	.005	.008	.025	446	5.3	15
JUL								
07...	.001	.06	.004	.010	.032	317	.83	6
AUG								
18...	.001	.06	.004	.010	.027	205	.14	3
SEP								
21...	.003	.06	.006	.010	.028	193	.11	3

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	10.0	6.5	8.0	5.0	2.5	3.5	.5	.0	.0	---	---	---
2	9.5	6.0	7.5	3.0	1.0	2.0	1.0	.0	.5	---	---	---
3	7.5	5.0	6.0	4.0	1.0	2.5	2.0	.0	1.0	---	---	---
4	7.0	3.5	5.0	4.0	1.0	2.5	.5	.0	.0	---	---	---
5	7.0	3.5	5.0	3.5	1.0	2.0	.0	.0	.0	---	---	---
6	7.0	3.0	5.0	1.5	.5	1.0	.0	.0	.0	---	---	---
7	7.5	3.5	5.5	2.0	.0	1.0	.0	.0	.0	---	---	---
8	8.0	4.0	5.5	1.5	.0	1.0	.0	.0	.0	---	---	---
9	6.5	3.0	4.5	1.5	.0	.5	.0	.0	.0	---	---	---
10	5.5	2.0	4.0	1.5	.0	1.0	.5	.0	.0	---	---	---
11	6.5	2.0	4.0	2.0	.5	1.0	.5	.0	.0	---	---	---
12	6.0	2.5	4.0	1.0	.0	.0	.5	.0	.0	1.5	.0	.5
13	7.5	3.5	5.5	2.0	.0	1.0	.5	.0	.0	1.5	.5	.5
14	6.5	3.0	4.5	3.0	.5	1.5	.5	.0	.0	2.0	.0	1.0
15	6.0	3.0	4.5	3.0	.5	1.5	.5	.0	.5	2.5	.5	1.5
16	5.0	2.0	3.5	3.0	.5	2.0	1.0	.0	.5	1.5	.5	1.0
17	4.0	.5	2.0	2.0	.5	1.5	1.5	.0	.5	3.0	1.0	1.5
18	4.0	1.0	2.5	1.0	.0	.5	1.0	.0	.5	1.5	.0	.5
19	4.5	1.0	3.0	.5	.0	.0	1.0	.0	.5	.0	.0	.0
20	5.5	2.0	3.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0
21	5.5	2.0	3.5	3.5	.5	2.0	.0	.0	.0	.0	.0	.0
22	6.0	3.0	4.0	2.5	.5	1.5	.5	.0	.0	.5	.0	.0
23	5.5	2.0	4.0	3.0	1.5	2.0	.0	.0	.0	.5	.0	.0
24	5.0	3.5	4.0	2.5	.5	1.5	.0	.0	.0	1.0	.0	.0
25	3.5	2.0	3.0	3.0	.5	1.5	.0	.0	.0	.5	.0	.0
26	6.0	3.0	4.0	2.5	.0	1.0	.0	.0	.0	.0	.0	.0
27	5.0	2.5	4.0	3.0	1.0	2.0	.0	.0	.0	.5	.0	.0
28	6.0	3.5	4.5	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
29	5.5	3.0	4.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0
30	4.0	1.5	2.5	3.0	.0	1.5	---	---	---	.5	.0	.0
31	3.5	.5	2.0	---	---	---	---	---	---	.0	.0	.0
MONTH	10.0	.5	4.3	5.0	.0	1.4	---	---	---	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN
10336775 TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	.0	.0	.0	4.0	1.0	2.0	1.0	.0	.5	7.5	2.5	4.5
2	.5	.0	.0	3.5	.0	1.5	4.0	.0	1.5	5.5	2.5	3.5
3	.5	.0	.0	3.5	1.0	2.0	1.5	.0	.5	3.5	1.0	2.5
4	.5	.0	.0	3.0	.5	1.5	2.0	.0	.5	6.5	1.0	3.5
5	1.5	.0	.5	2.0	.0	.5	.5	.0	.0	7.5	1.5	4.5
6	1.0	.0	.5	3.5	.5	1.5	.5	.0	.0	8.5	2.0	5.0
7	.0	.0	.0	2.5	.5	1.5	1.5	.0	.5	8.0	2.5	4.5
8	.0	.0	.0	3.0	.0	1.0	.5	.0	.0	7.0	2.0	4.0
9	.0	.0	.0	.5	.0	.0	.5	.0	.0	6.5	1.5	4.0
10	.0	.0	.0	.5	.0	.0	1.0	.0	.0	6.0	2.0	4.0
11	.0	.0	.0	1.5	.0	.5	4.5	.5	2.0	8.5	2.5	5.0
12	.0	.0	.0	2.0	.0	.5	6.0	.5	2.5	7.0	3.0	4.5
13	.0	.0	.0	4.0	.0	1.5	6.5	.5	3.0	7.0	2.0	4.0
14	.0	.0	.0	4.0	1.0	2.0	6.5	1.0	3.0	6.5	1.5	4.0
15	.0	.0	.0	4.0	1.0	2.0	6.5	1.0	3.0	7.0	2.0	4.0
16	.0	.0	.0	4.5	.5	2.5	6.5	1.0	3.0	7.5	2.0	4.5
17	.0	.0	.0	4.5	.5	2.5	6.5	1.5	3.5	7.5	2.5	5.0
18	1.0	.0	.0	4.5	1.0	2.5	5.5	1.5	3.0	6.5	2.5	4.5
19	.5	.0	.0	4.0	1.5	2.5	6.5	1.5	3.5	8.0	2.5	5.0
20	.0	.0	.0	3.5	1.5	2.0	6.5	1.5	3.5	7.5	3.0	5.0
21	.0	.0	.0	4.0	.5	2.0	5.5	1.5	3.0	8.5	3.0	5.5
22	.5	.0	.0	4.0	.0	2.0	4.5	1.0	3.0	8.5	3.5	5.5
23	2.5	.0	1.0	4.5	1.0	2.5	3.5	1.5	2.5	8.5	3.5	5.5
24	3.0	.0	1.0	4.5	1.0	2.5	6.0	1.5	3.5	6.5	3.5	5.0
25	1.0	.0	.0	5.5	1.5	3.0	7.5	1.5	4.0	8.5	3.5	5.5
26	.5	.0	.5	5.5	1.5	3.0	5.0	2.0	3.5	7.5	3.5	5.5
27	4.0	.5	2.0	5.0	1.0	2.5	6.5	2.5	4.0	8.5	3.5	5.5
28	3.5	.5	1.5	4.5	.5	2.0	2.5	1.0	1.5	8.5	3.5	5.5
29	---	---	---	4.0	.5	2.0	3.0	1.0	2.0	6.0	3.5	4.5
30	---	---	---	3.5	.0	2.0	7.0	2.0	4.0	8.5	3.5	5.5
31	---	---	---	.5	.0	.0	---	---	---	8.0	3.5	5.5
MONTH	4.0	.0	.2	5.5	.0	1.7	7.5	.0	2.2	8.5	1.0	4.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	6.5	4.0	5.0	12.5	8.5	10.5	15.0	9.0	11.5	10.0	5.0	7.5
2	6.0	3.5	4.5	12.5	8.5	10.5	14.5	7.5	10.5	10.0	5.5	7.5
3	4.0	2.0	3.0	12.0	8.0	10.0	14.0	8.0	10.5	11.5	5.0	8.0
4	4.5	3.0	3.5	11.5	8.0	9.5	12.0	8.5	10.0	12.0	5.5	8.5
5	8.5	4.0	6.0	12.0	7.0	9.5	13.5	8.5	10.5	12.5	6.0	9.0
6	8.5	4.0	6.0	12.5	7.5	10.0	12.5	9.0	10.5	13.0	6.5	9.5
7	7.5	2.5	5.0	13.5	9.0	11.0	12.5	7.0	9.5	13.0	6.5	9.5
8	7.5	2.5	5.0	13.0	8.5	10.5	11.5	7.5	9.5	13.5	7.0	10.0
9	7.0	2.5	5.0	13.0	7.5	10.5	11.5	8.0	9.5	10.5	7.5	9.0
10	8.5	3.0	6.0	13.5	9.0	11.0	10.5	8.5	9.0	11.5	7.0	9.0
11	8.5	4.0	6.5	14.5	9.5	11.5	11.0	7.0	9.0	13.0	7.0	9.5
12	9.0	4.0	6.5	14.5	10.0	12.0	14.0	7.5	10.0	13.0	7.0	9.5
13	9.5	4.5	7.0	15.0	11.0	12.5	14.5	8.5	11.0	12.5	7.0	9.5
14	10.0	5.0	7.5	15.0	10.0	12.0	13.5	7.5	10.0	13.0	6.5	9.5
15	8.5	5.5	7.0	14.5	9.5	12.0	13.0	6.5	9.5	12.5	6.5	9.0
16	10.0	5.5	7.5	14.0	9.0	11.5	14.0	7.5	10.5	12.0	6.5	9.0
17	10.0	5.5	8.0	13.5	8.0	10.5	14.5	8.0	10.5	11.0	6.5	9.0
18	9.5	5.0	7.5	13.0	7.5	10.0	14.5	8.5	11.0	10.5	8.5	9.5
19	10.0	6.0	8.0	13.5	8.0	10.5	14.5	8.0	11.0	12.5	7.0	9.5
20	10.0	5.5	8.0	13.5	7.5	10.0	14.5	8.0	11.0	11.0	7.0	9.0
21	10.0	6.5	8.5	13.0	7.0	9.5	14.5	8.0	11.0	12.0	6.5	9.0
22	11.0	6.5	9.0	14.0	7.5	10.5	13.0	8.5	10.5	11.0	7.5	9.0
23	11.0	7.0	9.5	14.0	8.0	10.5	14.0	8.5	11.0	13.0	8.0	9.5
24	11.0	7.0	9.0	13.5	7.5	10.5	14.5	8.0	11.0	12.5	7.0	9.5
25	10.0	6.0	8.0	14.0	7.5	10.5	14.5	8.5	11.5	12.0	7.0	9.5
26	9.5	5.0	7.5	14.5	8.5	11.5	12.0	10.0	11.0	12.0	7.5	9.5
27	10.0	5.5	8.0	14.5	8.5	11.0	14.0	9.0	11.0	11.0	6.5	8.5
28	11.0	6.5	9.0	14.5	8.5	11.5	14.5	8.5	11.0	9.5	5.5	7.5
29	11.5	7.5	9.5	15.0	9.0	11.5	14.5	8.5	11.0	9.5	5.0	7.0
30	12.0	7.5	10.0	14.0	8.0	11.0	13.5	8.0	10.5	10.0	6.0	8.0
31	---	---	---	14.5	8.5	11.5	12.0	5.5	8.5	---	---	---
MONTH	12.0	2.0	7.0	15.0	7.0	10.8	15.0	5.5	10.4	13.5	5.0	8.9

PYRAMID AND WINNEMUCCA LAKES BASIN

10336779 COLD CREEK AT MOUTH, CA

(Lake Tahoe Interagency Monitoring Program)

WATER-QUALITY RECORDS

LOCATION.--Lat 38°54'44", long 119°58'06", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.03, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 600 ft upstream of mouth, about 0.5 mi downstream from Pioneer Trail Road, and 1.7 mi south of South Lake Tahoe, CA.

DRAINAGE AREA.--12.8 mi².

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In September 1997, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor streamflows and water temperature within the Upper Truckee River-Trout Creek watershed. Records represent water temperature at probe within 0.5°C. Interruptions in record due to instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 14.0°C, July 17, 1998; minimum, freezing point on many days.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 13.5°C, June 22, 23, 30, July 1, 11-14; minimum, freezing point, many days November to April.

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.0	6.5	7.5	5.0	3.0	4.0	2.0	.0	1.0	2.0	.5	1.0
2	8.5	6.0	7.0	3.5	1.5	2.5	2.5	.5	1.5	1.5	.5	1.0
3	7.5	4.5	6.0	5.0	2.0	3.0	3.0	.0	1.5	1.5	.5	1.0
4	6.0	3.0	4.5	4.5	2.0	3.0	.5	.0	.0	2.0	.0	1.0
5	6.5	3.5	5.0	3.5	2.0	2.5	.0	.0	.0	2.0	.5	1.0
6	7.0	3.5	5.5	2.5	1.5	2.0	.0	.0	.0	2.5	.5	1.5
7	7.5	4.0	5.5	3.0	1.0	2.0	.0	.0	.0	3.0	1.0	2.0
8	7.5	4.5	5.5	3.0	1.0	1.5	1.5	.0	1.0	2.0	.5	1.0
9	6.0	3.0	4.5	2.5	.5	1.0	1.0	.0	.5	2.0	.0	1.0
10	5.0	2.5	4.0	3.0	1.0	1.5	1.5	.0	1.0	2.0	.5	1.0
11	6.0	2.5	4.5	3.5	1.0	2.0	2.5	1.0	1.5	2.5	1.0	1.5
12	6.0	3.0	5.0	2.5	.0	1.0	2.5	1.0	2.0	2.5	1.0	2.0
13	7.5	4.5	5.5	3.5	1.0	2.0	3.0	1.5	2.0	3.0	1.5	2.0
14	6.0	3.5	5.0	4.0	2.0	2.5	2.0	.5	1.5	3.0	1.0	2.0
15	6.0	3.5	4.5	4.0	1.5	2.5	2.5	.5	1.5	4.0	1.5	3.0
16	5.0	2.5	3.5	4.0	1.5	3.0	3.0	1.5	2.0	3.0	1.5	2.0
17	4.5	1.0	2.5	3.0	1.0	2.5	2.5	1.5	2.0	4.0	2.0	3.0
18	4.5	1.5	3.0	2.5	.5	1.0	2.0	.5	1.5	2.5	.5	1.5
19	5.0	2.0	3.5	2.0	.0	1.0	1.5	.0	1.0	1.5	.0	1.0
20	5.5	2.5	4.0	2.5	.0	1.5	.0	.0	.0	1.5	.0	.5
21	6.0	3.0	4.5	4.5	2.0	3.0	.0	.0	.0	2.0	.0	1.0
22	6.0	3.5	4.5	3.5	1.5	2.5	.0	.0	.0	2.5	1.0	1.5
23	5.5	3.0	4.5	4.0	2.0	3.0	.0	.0	.0	1.5	.0	.5
24	5.0	3.5	4.5	3.0	1.0	2.0	.0	.0	.0	.0	.0	.0
25	4.0	2.0	3.0	3.5	1.0	2.0	1.0	.0	.0	1.5	.0	1.0
26	5.5	3.5	4.5	3.0	1.0	2.0	2.0	1.0	1.5	2.0	.5	1.0
27	5.5	3.5	4.5	3.5	2.0	3.0	2.0	1.0	1.5	1.5	.0	.5
28	6.5	4.0	5.0	3.0	2.0	2.5	2.5	1.5	2.0	.5	.0	.0
29	6.0	3.0	4.0	2.5	.5	1.5	2.0	1.0	1.5	1.0	.0	.5
30	4.0	2.0	2.5	3.5	.0	2.0	2.5	1.0	2.0	2.0	.0	1.0
31	3.5	1.0	2.5	---	---	---	3.0	1.0	2.0	2.0	.5	1.5
MONTH	9.0	1.0	4.5	5.0	.0	2.2	3.0	.0	1.0	4.0	.0	1.2

PYRAMID AND WINNEMUCCA LAKES BASIN

10336779 COLD CREEK AT MOUTH, CA

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	.5	4.5	2.0	3.0	---	---	---	8.0	3.0	5.0
2	1.5	.0	.5	4.5	1.0	2.5	---	---	---	6.5	3.0	4.0
3	3.0	1.0	1.5	4.0	2.0	2.5	3.0	.0	1.0	5.5	2.0	3.5
4	3.5	1.5	2.5	4.0	1.0	2.5	5.0	.0	2.0	8.0	2.0	4.5
5	3.0	1.0	2.0	3.0	.0	1.5	2.0	1.0	1.5	9.0	2.5	5.0
6	2.0	.5	1.0	4.0	1.0	2.0	3.0	.0	1.5	9.0	3.0	5.0
7	1.5	.0	.5	4.0	1.0	2.0	2.5	1.0	1.5	8.5	3.0	5.0
8	1.5	.0	.5	3.5	1.0	1.5	1.5	.0	1.0	8.0	2.0	4.5
9	1.0	.0	.0	2.0	.0	.5	4.0	.5	1.5	7.5	2.0	4.5
10	.0	.0	.0	2.5	.0	1.0	4.0	.0	1.5	6.5	2.0	4.0
11	.0	.0	.0	3.5	1.0	2.0	6.0	2.0	3.5	9.0	3.0	5.5
12	2.0	.0	.5	3.5	.0	1.5	6.0	1.5	3.5	8.0	3.5	5.0
13	2.5	.5	1.5	5.0	1.0	2.5	7.5	1.5	4.0	8.0	2.5	4.5
14	2.5	1.0	1.5	5.0	1.5	3.0	7.5	2.0	4.0	7.5	2.0	4.0
15	2.0	.0	1.5	5.0	1.5	3.0	7.5	1.5	4.0	8.0	2.0	4.5
16	3.0	1.5	2.0	5.5	1.5	3.0	7.5	2.0	4.0	8.5	2.5	5.0
17	3.0	1.0	2.0	5.5	1.5	3.0	8.0	2.5	4.5	9.0	2.5	5.5
18	3.0	.5	1.5	5.5	1.5	3.0	6.5	2.0	4.5	7.5	3.0	5.0
19	2.0	.0	1.0	5.0	2.5	3.5	8.0	2.5	4.5	9.0	3.0	5.5
20	2.0	.0	1.0	4.0	2.5	3.0	7.5	2.5	4.5	8.5	3.0	5.5
21	1.5	.0	.5	5.0	1.5	2.5	6.5	2.5	4.0	9.5	3.5	6.0
22	3.0	1.0	2.0	5.0	1.0	2.5	6.0	2.0	3.5	9.5	4.0	6.0
23	3.5	1.0	2.0	6.0	2.0	3.5	4.5	2.0	3.0	10.0	4.0	6.5
24	3.5	1.0	2.0	---	---	---	8.0	2.5	4.5	8.5	4.5	6.0
25	2.0	.0	1.0	---	---	---	8.5	2.5	5.0	11.0	4.0	7.0
26	2.5	.0	1.0	---	---	---	5.5	3.0	4.0	10.0	4.5	7.0
27	4.5	2.0	3.0	---	---	---	8.0	2.5	4.5	11.0	4.0	7.0
28	4.0	1.5	2.5	---	---	---	3.0	1.5	2.0	11.0	4.0	7.0
29	---	---	---	---	---	---	5.5	1.5	3.0	7.5	4.0	5.5
30	---	---	---	---	---	---	8.5	3.0	5.0	11.0	4.0	7.0
31	---	---	---	---	---	---	---	---	---	10.5	4.0	7.0
MONTH	4.5	.0	1.3	---	---	---	---	---	---	11.0	2.0	5.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	8.5	4.5	6.5	13.5	8.0	11.0	12.5	8.5	10.5	9.0	5.0	7.0
2	7.0	4.0	5.5	13.0	8.0	10.5	12.0	7.0	9.5	9.5	5.5	7.5
3	4.5	2.0	3.5	12.0	7.5	10.0	11.5	7.5	9.5	10.0	5.5	7.5
4	5.5	3.0	4.0	11.5	7.0	9.5	11.0	8.0	9.5	10.5	6.0	8.0
5	10.0	4.5	7.0	12.5	6.5	9.5	12.0	8.0	10.0	11.0	6.5	8.5
6	10.0	4.5	7.0	13.0	7.0	10.0	11.0	9.0	9.5	12.0	7.0	9.0
7	9.0	3.0	6.0	13.0	8.0	10.5	10.5	7.0	9.0	11.5	7.0	9.0
8	9.0	3.0	6.0	12.5	7.5	10.5	10.5	7.5	9.0	12.0	7.5	9.5
9	8.5	3.0	6.0	12.5	6.5	10.0	10.5	8.0	9.0	10.0	7.5	9.0
10	10.0	3.5	7.0	13.0	8.0	10.5	10.0	8.5	9.0	10.5	7.0	9.0
11	10.5	4.5	7.5	13.5	8.5	11.0	10.0	6.5	8.5	12.0	7.5	9.5
12	11.0	5.0	8.0	13.5	9.0	11.5	12.0	7.5	9.5	12.0	7.5	9.5
13	12.0	5.5	8.5	13.5	10.0	12.0	12.0	8.0	10.0	11.5	7.5	9.0
14	12.5	5.5	9.0	13.5	9.0	11.5	11.5	7.0	9.5	11.5	7.0	9.0
15	10.5	6.0	8.5	13.0	8.0	11.0	11.0	6.5	9.0	11.0	6.5	8.5
16	12.0	5.5	8.5	12.0	7.5	10.0	12.0	7.5	10.0	11.0	6.5	8.5
17	12.5	6.0	9.0	11.5	7.0	9.5	12.5	8.0	10.0	10.5	7.0	8.5
18	11.5	5.5	8.5	11.5	6.5	9.5	13.0	9.0	10.5	10.0	8.5	9.0
19	12.5	6.5	9.0	12.0	7.5	10.0	12.5	8.0	10.5	11.5	7.0	9.0
20	12.5	6.0	9.0	11.5	7.0	9.5	13.0	8.0	10.5	10.5	7.5	9.0
21	12.0	7.0	9.5	11.0	6.0	9.0	12.5	8.0	10.5	11.0	7.0	9.0
22	13.5	7.0	10.0	12.0	7.0	10.0	12.0	8.5	10.5	10.5	8.0	9.0
23	13.5	7.5	10.5	12.0	7.0	10.0	12.5	8.5	10.5	12.0	8.0	9.5
24	12.5	7.0	10.0	11.0	7.0	9.5	13.0	8.0	10.5	11.5	7.5	9.0
25	11.5	6.0	8.5	12.0	7.0	10.0	12.5	8.5	10.5	11.5	7.5	9.5
26	11.5	4.5	8.0	12.5	8.0	10.5	11.0	9.5	10.5	11.5	7.5	9.0
27	12.0	5.0	8.5	12.0	7.5	10.5	12.0	9.0	10.5	10.5	6.5	8.5
28	12.5	6.5	9.5	12.0	8.0	10.5	12.5	8.5	10.5	9.5	5.5	7.5
29	13.0	7.0	10.0	12.5	8.5	10.5	12.5	8.5	10.5	9.5	5.5	7.5
30	13.5	7.5	10.5	12.0	7.0	10.0	12.0	8.0	9.5	10.0	6.5	8.0
31	---	---	---	12.5	8.5	10.5	10.0	5.5	7.5	---	---	---
MONTH	13.5	2.0	8.0	13.5	6.0	10.3	13.0	5.5	9.8	12.0	5.0	8.7

PYRAMID AND WINNEMUCCA LAKES BASIN
10336780 TROUT CREEK NEAR TAHOE VALLEY, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°55'12", long 119°58'17", in NW 1/4 SE 1/4 sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on left bank, 5 ft upstream from Martin Avenue Bridge, 500 ft upstream from Heavenly Valley Creek, and 1.8 mi east of Tahoe Valley.

DRAINAGE AREA.--36.7 mi².

WATER-DISCHARGE RECORDS

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. Datum of gage is 6,241.57 ft above sea level.

REMARKS.--Records good. Minor diversions for local water supply upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 535 ft³/s, February 1, 1963, gage height, 11.14 ft, and January 2, 1997, gage height, 9.33 ft, from rating curve extended above 250 ft³/s on basis of computation of peak flow (weir formula); minimum daily, 2.5 ft³/s, September 7, 1988.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 29	0030	269	8.46	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	28	33	24	e26	34	40	73	205	117	45	29
2	30	27	32	e24	e26	34	35	79	196	113	44	29
3	29	26	31	e24	25	39	34	74	168	108	44	29
4	29	26	37	e24	25	39	41	70	148	102	45	28
5	29	25	e36	24	24	36	33	74	142	97	45	28
6	29	24	e34	23	23	33	33	85	149	92	43	28
7	29	26	e31	23	e31	31	32	97	144	88	42	27
8	28	26	e30	23	e38	30	29	98	138	85	41	26
9	28	26	e30	26	e49	29	37	94	135	82	e39	26
10	28	25	e29	25	e51	e29	38	91	136	79	e39	27
11	28	26	28	23	e39	29	32	99	142	77	e38	28
12	28	27	28	23	e36	31	32	113	150	75	e38	26
13	27	27	28	23	e34	29	37	114	159	73	e37	26
14	27	27	27	23	31	30	43	105	175	72	e37	26
15	28	27	27	25	e31	30	45	98	188	68	38	26
16	27	27	27	28	e30	30	49	99	193	66	38	26
17	28	27	27	28	e33	33	57	105	200	64	36	25
18	28	26	27	33	e34	36	65	112	203	62	35	26
19	28	26	25	34	e34	37	77	113	199	61	35	27
20	28	29	e25	36	e33	36	83	120	196	e60	34	26
21	28	27	e25	32	e31	34	82	125	192	e59	34	25
22	28	29	e25	31	31	34	75	140	186	57	33	25
23	27	31	e25	29	30	36	65	158	189	55	33	25
24	28	30	e25	e29	29	37	64	175	187	54	32	25
25	29	29	e25	e29	29	41	72	207	169	52	31	24
26	30	28	e25	28	e29	45	82	227	152	51	32	24
27	30	26	e25	e28	28	46	81	231	140	50	33	23
28	28	26	25	e28	29	43	76	240	132	49	31	23
29	28	29	24	e27	---	42	68	232	126	48	30	23
30	27	39	24	e26	---	40	66	202	121	e47	30	23
31	27	---	25	25	---	38	---	211	---	e46	30	---
TOTAL	877	822	865	828	889	1091	1603	4061	4960	2209	1142	779
MEAN	28.3	27.4	27.9	26.7	31.8	35.2	53.4	131	165	71.3	36.8	26.0
MAX	31	39	37	36	51	46	83	240	205	117	45	29
MIN	27	24	24	23	23	29	29	70	121	46	30	23
AC-FT	1740	1630	1720	1640	1760	2160	3180	8050	9840	4380	2270	1550

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1999, BY WATER YEAR (WY)

MEAN	17.4	19.8	21.4	24.9	25.4	30.5	44.2	80.3	95.9	51.6	24.9	17.8
MAX	37.6	61.1	64.0	115	68.7	85.0	81.9	184	286	188	88.7	49.6
(WY)	1983	1984	1984	1997	1986	1986	1982	1969	1983	1995	1983	1983
MIN	5.19	7.43	8.18	8.00	8.02	11.0	15.7	14.2	10.9	5.21	3.43	3.71
(WY)	1989	1978	1991	1991	1991	1977	1988	1988	1988	1988	1977	1977

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1961 - 1999	
ANNUAL TOTAL	20932		20126			
ANNUAL MEAN	57.3		55.1		37.9	
HIGHEST ANNUAL MEAN					85.3	
LOWEST ANNUAL MEAN					10.2	
HIGHEST DAILY MEAN	210	Jun 22	240	May 28	501	Jan 2 1997
LOWEST DAILY MEAN	19	Jan 1	23	Jan 6	2.5	Sep 7 1988
ANNUAL SEVEN-DAY MINIMUM	19	Jan 1	24	Jan 2	3.0	Sep 9 1977
INSTANTANEOUS PEAK FLOW			269	May 29	535	Feb 1 1963
INSTANTANEOUS PEAK STAGE			8.46	May 29	11.14	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	41520		39920		27430	
10 PERCENT EXCEEDS	136		135		86	
50 PERCENT EXCEEDS	33		32		23	
90 PERCENT EXCEEDS	23		25		9.0	

PYRAMID AND WINNEMUCCA LAKES BASIN
10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974, 1978, 1980-85, 1988, 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1981 to September 1983.

WATER TEMPERATURE: September 1997 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1985, October 1987 to September 1988.

INSTRUMENTATION.--Water temperature recorder since September 1997 to current year, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Water temperature records represent water temperature probe within 0.5°C. Interruptions in record due to loss of hydrologic communication with stream channel and/or instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 microsiemens, August 24, 1981; minimum recorded 14 microsiemens, May 28, 1982.

WATER TEMPERATURE: Maximum, 20.5°C, July 25, 1988; minimum, freezing point on many days during winter months in most years.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1977 to June 1978, March 1980 to September 1985, October 1987 to September 1988.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, August 20, 24; minimum, freezing point, many days November to April.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	10.5	6.5	8.0	6.0	2.5	4.0	1.5	.0	.5	1.5	.0	.5
2	10.5	6.0	7.5	4.5	1.0	2.5	1.5	.0	1.0	1.0	.0	.0
3	9.0	4.5	6.5	5.5	1.5	3.0	2.0	.0	1.0	1.0	.0	.0
4	8.0	3.0	5.0	5.0	1.5	3.0	.0	.0	.0	1.0	.0	.0
5	8.5	3.0	5.0	4.0	1.5	2.5	.0	.0	.0	1.5	.0	.5
6	8.0	3.0	5.5	2.0	1.0	1.5	.0	.0	.0	1.0	.0	.5
7	9.0	3.5	5.5	2.5	.5	1.5	.0	.0	.0	2.0	.5	.5
8	9.0	4.0	6.0	2.5	.5	1.5	.0	.0	.0	2.0	.0	.5
9	7.5	2.5	5.0	3.0	.0	1.0	.5	.0	.0	1.5	.0	.5
10	6.5	2.0	4.0	2.5	.0	1.0	1.0	.0	.0	1.5	.0	.5
11	7.5	2.0	4.5	4.5	.5	1.5	1.5	.0	.5	2.0	.0	.5
12	6.5	2.5	4.5	2.5	.0	.5	1.5	.5	.5	2.0	.0	1.0
13	8.5	3.5	5.5	3.0	.0	1.5	2.0	.5	1.0	3.0	.5	1.0
14	7.5	3.0	5.0	4.5	1.0	2.0	1.0	.0	.5	3.0	.5	1.5
15	7.0	3.0	4.5	4.0	.5	2.0	2.0	.0	.5	3.5	1.0	2.5
16	6.0	2.0	3.5	4.0	1.0	2.0	2.5	.5	1.0	2.0	1.0	1.5
17	5.5	.5	2.5	3.0	.5	2.0	2.5	.5	1.0	3.5	1.5	2.0
18	5.5	1.0	3.0	2.0	.0	.5	2.0	.0	.5	2.0	.0	1.0
19	6.5	1.5	3.0	2.0	.0	.5	1.0	.0	.5	.5	.0	.0
20	6.5	2.0	4.0	1.5	.0	.5	.0	.0	.0	.5	.0	.0
21	6.5	2.0	4.0	4.5	1.0	2.5	.0	.0	.0	1.0	.0	.0
22	6.5	3.0	4.5	3.0	1.0	2.0	.0	.0	.0	2.0	.0	.5
23	7.0	2.0	4.0	3.5	1.5	2.5	.0	.0	.0	1.0	.0	.0
24	5.0	3.5	4.5	3.0	.5	1.5	.0	.0	.0	.0	.0	.0
25	3.5	2.0	3.0	4.0	.5	1.5	.0	.0	.0	.5	.0	.0
26	6.5	3.0	4.5	3.5	.0	1.5	.0	.0	.0	1.0	.0	.5
27	6.5	3.0	4.5	3.5	1.5	2.0	1.0	.0	.5	1.0	.0	.0
28	6.5	4.0	5.0	2.5	1.5	2.0	1.5	.5	.5	.0	.0	.0
29	6.0	2.5	4.0	1.5	.0	1.0	1.5	.0	.5	1.0	.0	.0
30	5.0	1.5	2.5	3.0	.0	1.5	1.5	.0	.5	1.0	.0	.0
31	4.5	.5	2.5	---	---	---	2.0	.5	1.0	1.0	.0	.5
MONTH	10.5	.5	4.5	6.0	.0	1.8	2.5	.0	.4	3.5	.0	.5

PYRAMID AND WINNEMUCCA LAKES BASIN
10336780 TROUT CREEK NEAR TAHOE VALLEY, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	.0	5.5	1.5	2.5	2.0	.0	.5	8.0	2.5	5.0
2	1.5	.0	.5	4.5	.0	2.0	5.5	.0	2.0	6.0	3.0	4.0
3	2.5	.0	.5	4.0	1.0	2.5	1.5	.0	.5	4.5	1.5	3.0
4	3.0	.5	1.0	4.0	.5	2.0	4.0	.0	1.5	8.0	1.5	4.0
5	3.0	.5	1.0	2.5	.0	1.0	1.0	.0	.5	9.0	2.0	5.0
6	1.0	.0	.5	4.5	.5	2.0	2.0	.0	.5	9.0	2.5	5.5
7	.0	.0	.0	5.0	.5	2.0	2.5	.0	1.0	8.5	2.5	5.0
8	.0	.0	.0	3.0	.0	1.0	1.0	.0	.0	8.0	2.0	4.5
9	.0	.0	.0	1.5	.0	.0	2.5	.0	.5	7.5	1.5	4.5
10	.0	.0	.0	1.5	.0	.5	2.0	.0	1.0	6.0	2.0	4.0
11	.0	.0	.0	4.0	.0	1.0	6.0	.5	2.5	9.0	3.0	5.5
12	.0	.0	.0	3.0	.0	1.0	7.5	.5	3.0	7.5	3.0	5.0
13	1.5	.0	.5	6.0	.0	2.5	8.0	.5	3.5	8.0	2.5	4.5
14	1.5	.0	.5	5.5	1.0	2.5	8.0	1.0	3.5	7.5	1.5	4.0
15	1.5	.0	.5	5.0	1.0	2.5	8.0	1.0	3.5	7.5	2.0	4.5
16	1.5	.5	.5	6.5	1.0	3.0	7.5	1.5	3.5	8.0	2.0	5.0
17	1.5	.5	.5	6.5	.5	3.0	8.0	1.5	4.0	8.5	2.5	5.0
18	1.5	.0	.5	6.5	1.0	3.0	6.5	1.5	3.5	7.5	2.5	5.0
19	1.0	.0	.0	4.5	1.5	3.0	8.0	2.0	4.0	9.0	2.5	5.5
20	.5	.0	.0	4.0	1.5	2.5	7.5	1.5	4.0	8.0	3.0	5.5
21	.5	.0	.0	5.5	.5	2.5	5.5	1.5	3.5	9.0	3.0	5.5
22	2.0	.0	.5	5.5	.0	2.5	5.5	1.5	3.0	9.0	3.5	6.0
23	3.5	.0	1.5	6.5	1.5	3.0	4.0	1.5	2.5	9.0	3.5	6.0
24	4.0	.0	1.5	5.5	1.5	3.0	7.5	1.5	4.0	7.5	4.0	5.5
25	1.0	.0	.5	7.0	1.5	3.5	8.5	2.0	5.0	9.5	4.0	6.0
26	1.5	.0	.5	7.0	1.5	3.5	5.0	2.5	4.0	8.5	4.0	6.0
27	5.0	1.0	2.5	6.5	1.0	3.0	7.5	2.5	4.5	9.5	3.5	6.0
28	4.5	.5	2.0	6.0	.5	2.5	3.0	1.5	2.0	9.5	3.5	6.0
29	---	---	---	5.0	.5	2.5	4.0	1.0	2.5	6.5	3.5	5.0
30	---	---	---	5.5	.0	2.5	8.5	2.0	4.5	9.5	3.5	6.0
31	---	---	---	1.5	.0	.5	---	---	---	9.0	4.0	6.5
MONTH	5.0	.0	.6	7.0	.0	2.2	8.5	.0	2.6	9.5	1.5	5.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	7.0	4.0	5.5	13.5	8.5	11.0	15.0	9.0	11.5	10.5	5.0	7.5
2	6.5	4.0	5.0	13.5	8.5	11.0	14.5	7.5	11.0	---	---	---
3	4.0	2.0	3.5	13.0	8.0	10.5	14.5	8.0	10.5	---	---	---
4	4.5	3.0	4.0	12.5	8.0	10.0	12.0	8.5	10.0	---	---	---
5	9.0	4.0	6.5	12.5	7.0	10.0	14.0	8.0	10.5	---	---	---
6	9.0	4.5	6.5	13.5	7.5	10.5	12.5	9.0	10.5	---	---	---
7	8.0	3.0	5.5	14.0	9.0	11.0	12.5	7.0	9.5	---	---	---
8	8.0	2.5	5.5	13.5	8.5	11.0	11.5	7.5	9.5	---	---	---
9	7.5	3.0	5.5	13.5	7.5	10.5	11.5	8.0	9.5	---	---	---
10	9.0	3.5	6.5	14.0	8.5	11.0	10.5	8.5	9.0	---	---	---
11	9.0	4.5	7.0	15.0	9.0	12.0	11.5	7.0	9.0	---	---	---
12	10.0	4.5	7.0	15.0	9.5	12.5	14.5	7.5	10.5	---	---	---
13	10.5	5.0	8.0	15.0	10.5	12.5	14.5	8.5	11.0	---	---	---
14	11.0	5.5	8.0	15.0	10.0	12.5	14.0	7.5	10.0	---	---	---
15	9.0	5.5	7.5	15.0	9.0	12.0	13.5	6.5	10.0	---	---	---
16	10.5	5.5	8.0	14.5	8.5	11.0	14.5	7.5	10.5	---	---	---
17	11.0	6.0	8.5	14.0	7.5	10.5	14.5	8.0	11.0	---	---	---
18	10.0	5.5	8.0	13.5	7.0	10.0	15.0	9.0	11.5	---	---	---
19	11.0	6.5	8.5	14.0	8.0	10.5	15.0	8.0	11.0	---	---	---
20	11.0	6.0	8.5	13.5	7.5	10.5	15.5	8.0	11.5	---	---	---
21	11.0	7.0	9.0	13.0	6.5	9.5	15.0	8.0	11.0	---	---	---
22	12.0	7.0	9.5	14.0	7.5	10.5	13.0	8.5	11.0	---	---	---
23	12.0	7.5	10.0	14.0	8.0	10.5	14.5	8.5	11.0	---	---	---
24	12.0	7.5	9.5	13.5	7.5	10.5	15.5	8.0	11.5	---	---	---
25	10.5	6.0	8.5	14.0	7.5	10.5	15.0	8.5	11.5	---	---	---
26	10.5	5.0	8.0	15.0	8.5	11.5	11.5	9.5	11.0	---	---	---
27	11.0	5.5	8.5	14.5	8.5	11.5	14.0	9.0	11.5	---	---	---
28	12.0	6.5	9.5	14.5	8.5	11.5	15.0	8.5	11.5	---	---	---
29	12.5	7.5	10.0	15.0	9.0	11.5	15.0	8.5	11.5	---	---	---
30	13.0	8.0	10.5	14.5	8.0	11.0	14.0	8.5	10.5	---	---	---
31	---	---	---	15.0	8.5	11.5	12.0	5.5	8.5	---	---	---
MONTH	13.0	2.0	7.5	15.0	6.5	11.0	15.5	5.5	10.6	---	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN
10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°55'56", long 119°58'40", in SE 1/4 NW 1/4 sec.3, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, downstream side of U.S. Highway 50 bridge, 1.2 mi upstream from Lake Tahoe, and 1.4 mi southwest of South Lake Tahoe Post Office.

DRAINAGE AREA.--40.4 mi².

PERIOD OF RECORD.--Water years 1972-74, 1989 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Instantaneous, October 1971 to June 1974, October 1988 to September 1992. Continuous: September 1997 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to June 1974, October 1988 to September 1992.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In October 1992, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Samples were analyzed by the University of California, Davis, Tahoe Research Group. Water temperature records represent water temperature within 0.5°C. Interruptions in water temperature record due to loss of hydrologic communication with stream and for instrument malfunction. Water temperature data for September 1997 were not published but are available from the U.S. Geological Survey in Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 22.0°C, July 8, 1990; minimum, freezing point on many days during winter months in most years.

SEDIMENT CONCENTRATION: Maximum daily mean, 300 mg/L, January 15, 1974; minimum daily mean, 0 mg/L, at times in most years.

SEDIMENT LOAD: Maximum daily, 52 tons, January 15, 1974; minimum daily, 0 ton, at times in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 15.5°C, August 19, 20; minimum, freezing point, many days November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
OCT								
29...	0940	30	--	--	--	48	8.5	4.5
NOV								
25...	1315	30	--	--	--	49	13.0	3.5
DEC								
18...	1535	30	--	--	--	50	6.0	2.0
JAN								
22...	1025	34	--	--	--	57	3.0	1.0
FEB								
17...	1025	34	--	--	--	90	4.5	1.0
26...	1515	30	--	--	--	62	5.5	2.0
MAR								
24...	1050	36	--	--	--	60	9.0	3.0
APR								
16...	0900	46	--	--	--	57	4.5	1.5
21...	1150	78	--	--	--	47	9.0	3.5
28...	1440	76	--	--	--	47	1.0	2.5
MAY								
07...	0815	94	--	--	--	40	9.5	2.5
10...	1545	88	--	--	--	44	15.0	6.5
14...	0950	105	--	--	--	39	7.5	2.5
20...	0900	116	--	--	--	35	10.0	3.0
26...	0920	220	--	--	--	29	15.0	5.0
JUN								
03...	1135	167	599	99	10.3	28	4.0	3.5
09...	0900	136	--	--	--	30	9.0	3.5
14...	0710	176	--	--	--	27	10.5	5.5
22...	1555	179	--	--	--	26	23.0	13.0
JUL								
07...	1030	90	--	--	--	31	22.0	10.0
AUG								
18...	1155	38	--	--	--	43	21.0	10.5
SEP								
21...	0920	26	--	--	--	50	13.5	7.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	IRON, BIO. REACT- IVE TOTAL (UG/L AS FE) (46568)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, SUS- PENDE (MG/L) (80154)
OCT								
29...	.003	.08	.007	.007	.018	235	.08	1
NOV								
25...	.003	.07	.014	.007	.018	349	.89	11
DEC								
18...	<.001	.06	.023	.008	.022	462	.57	7
JAN								
22...	.004	.13	.031	.008	.028	561	.73	8
FEB								
17...	.007	.21	.028	.010	.097	1670	4.1	45
26...	.005	.20	.031	.009	.041	973	1.9	24
MAR								
24...	.005	.13	.017	.006	.023	563	.58	6
APR								
16...	.001	.13	.030	.006	.022	517	1.6	13
21...	.002	.28	.030	.008	.065	1180	8.6	41
28...	.003	.13	.028	.005	.027	514	5.1	25
MAY								
07...	<.001	.29	.020	.007	.066	1170	7.4	29
10...	.002	.19	.021	.008	.039	806	3.8	16
14...	.001	.22	.019	.007	.046	871	6.8	24
20...	.002	.33	.021	.007	.043	1160	8.8	28
26...	.002	.31	.020	.014	.079	1420	23	39
JUN								
03...	<.001	.13	.003	.003	.034	1730	8.1	18
09...	.001	.08	.013	.006	.024	260	7.7	21
14...	<.001	.13	.003	.009	.046	543	12	25
22...	.002	.09	.004	.009	.033	486	6.8	14
JUL								
07...	.001	.13	.007	.010	.043	624	4.6	19
AUG								
18...	.001	.10	.010	.009	.033	420	.82	8
SEP								
21...	.002	.05	.013	.009	.031	274	.28	4

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.0	6.5	8.5	6.0	2.5	4.0	1.5	.0	.5	2.0	.0	.5
2	10.5	6.0	8.0	5.0	1.0	2.5	2.0	.0	1.0	1.5	.0	.0
3	9.0	5.0	6.5	5.5	1.5	3.0	2.0	.0	1.0	1.0	.0	.0
4	8.5	3.0	5.5	5.0	1.0	3.0	.5	.0	.0	1.0	.0	.0
5	8.5	3.0	5.5	4.0	1.0	2.5	.0	.0	.0	2.0	.0	.5
6	8.5	3.0	5.5	2.0	1.0	1.5	.0	.0	.0	1.5	.0	.5
7	9.0	3.5	6.0	2.5	.5	1.5	.0	.0	.0	2.5	.0	.5
8	9.5	4.0	6.5	3.0	.5	1.5	.0	.0	.0	2.0	.0	.5
9	8.0	3.0	5.5	3.0	.0	1.0	.0	.0	.0	1.5	.0	.0
10	7.5	2.0	4.5	2.5	.0	1.0	.0	.0	.0	2.0	.0	.0
11	8.0	2.0	4.5	5.0	.5	2.0	.0	.0	.0	1.5	.0	.5
12	7.5	2.5	5.0	3.0	.0	1.0	1.5	.0	.5	3.0	.0	1.0
13	9.0	3.5	6.0	3.0	.0	1.5	2.0	.0	.5	3.0	.0	1.0
14	8.0	3.0	5.5	4.5	.5	2.0	1.5	.0	.5	3.0	.0	1.5
15	7.0	3.0	5.0	4.0	.5	2.0	2.0	.0	.5	4.0	1.5	2.5
16	6.5	2.0	4.0	4.0	.5	2.5	3.0	.0	1.0	2.0	1.0	1.5
17	6.0	.5	3.0	3.0	1.0	2.0	3.0	.0	1.0	3.5	1.5	2.5
18	6.0	1.0	3.0	2.5	.0	1.0	2.0	.0	.5	2.0	.0	1.0
19	6.5	1.0	3.5	2.5	.0	.5	1.0	.0	.0	1.0	.0	.0
20	7.0	2.0	4.0	2.0	.0	.5	.0	.0	.0	.5	.0	.0
21	7.0	2.0	4.5	4.5	1.0	2.5	.0	.0	.0	.5	.0	.0
22	7.0	3.0	4.5	3.5	1.0	2.0	.0	.0	.0	2.5	.0	1.0
23	7.0	2.0	4.5	3.5	1.5	2.5	.0	.0	.0	.5	.0	.0
24	5.0	3.5	4.5	3.0	.5	1.5	.0	.0	.0	.0	.0	.0
25	4.0	3.0	3.5	4.0	.5	1.5	.0	.0	.0	.0	.0	.0
26	6.5	3.0	4.5	3.5	.0	1.5	.0	.0	.0	.5	.0	.0
27	6.5	3.0	4.5	3.5	1.0	2.0	.0	.0	.0	1.5	.0	.0
28	7.0	4.0	5.0	2.5	1.5	2.0	.0	.0	.0	.5	.0	.0
29	6.5	2.5	4.5	1.5	.0	1.0	.5	.0	.0	.0	.0	.0
30	5.5	1.5	3.0	3.0	.0	1.5	1.0	.0	.5	.0	.0	.0
31	5.0	.5	2.5	---	---	---	2.5	.0	1.0	1.0	.0	.0
MONTH	11.0	.5	4.9	6.0	.0	1.8	3.0	.0	.3	4.0	.0	.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1.5	.0	.5	5.5	1.5	3.0	2.5	.0	1.0	8.0	3.0	5.5
2	1.5	.0	.0	5.0	.0	2.0	5.5	.0	2.5	6.0	3.0	4.5
3	3.0	.0	1.0	5.0	1.0	2.5	1.5	.0	.5	5.0	1.5	3.0
4	2.5	.0	1.0	4.0	.5	2.0	4.5	.0	1.5	8.5	1.0	4.5
5	3.0	.0	1.0	2.5	.0	1.0	1.0	.0	.5	9.0	2.0	5.5
6	1.0	.0	.5	4.5	.0	2.0	2.5	.0	.5	9.5	2.5	6.0
7	.0	.0	.0	5.0	.5	2.0	2.5	.0	1.0	9.0	2.5	5.5
8	.0	.0	.0	3.0	.0	1.5	1.0	.0	.0	8.5	2.0	5.0
9	.0	.0	.0	1.5	.0	.5	3.0	.0	1.0	8.0	2.0	4.5
10	.0	.0	.0	1.5	.0	.5	3.0	.0	1.0	6.5	2.0	4.5
11	.0	.0	.0	4.0	.0	1.5	6.5	.5	3.0	9.0	3.0	6.0
12	.0	.0	.0	3.5	.0	1.0	7.5	.5	3.5	8.0	3.5	5.5
13	.0	.0	.0	6.0	.0	2.5	8.5	1.0	4.0	8.0	2.5	5.0
14	.0	.0	.0	6.0	1.0	3.0	8.5	1.0	4.0	7.5	2.0	4.5
15	.5	.0	.0	5.5	1.0	3.0	8.5	1.0	4.0	8.0	2.0	4.5
16	1.5	.5	1.0	6.5	1.0	3.0	8.0	1.0	4.0	8.5	2.0	5.0
17	2.0	.5	1.0	6.5	.5	3.0	8.5	1.5	4.5	8.5	2.5	5.5
18	1.5	.0	.5	6.5	1.0	3.5	7.0	1.5	4.0	7.5	3.0	5.0
19	1.5	.0	.0	5.0	1.5	3.0	8.5	2.0	4.5	9.0	3.0	5.5
20	.5	.0	.0	4.0	1.5	2.5	8.0	2.0	4.5	8.5	3.0	5.5
21	.0	.0	.0	5.5	.5	2.5	6.0	1.5	3.5	9.5	3.5	6.0
22	2.0	.0	.5	6.0	.0	2.5	6.0	1.5	3.5	9.5	3.5	6.5
23	4.0	.0	1.5	6.5	1.0	3.5	4.5	1.5	3.0	9.5	3.5	6.5
24	4.0	.0	1.5	6.0	1.0	3.0	8.0	2.0	4.5	8.0	4.0	6.0
25	1.5	.0	.5	7.0	1.5	4.0	9.0	2.0	5.0	10.0	4.0	7.0
26	2.0	.0	.5	7.5	1.5	4.0	5.0	2.5	4.0	9.5	4.0	7.0
27	5.5	1.0	2.5	6.5	1.0	3.0	8.0	2.5	5.0	10.5	4.0	7.0
28	5.0	.5	2.5	6.5	.5	3.0	3.5	1.5	2.0	10.5	4.0	7.0
29	---	---	---	5.5	.5	3.0	4.0	1.0	2.5	7.5	4.0	6.0
30	---	---	---	5.5	.0	2.5	8.5	2.5	5.0	10.0	4.0	7.0
31	---	---	---	2.0	.0	.5	---	---	---	10.0	4.0	7.0
MONTH	5.5	.0	.6	7.5	.0	2.4	9.0	.0	2.9	10.5	1.0	5.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	8.0	4.5	6.5	14.0	9.0	11.5	14.5	10.0	12.0	10.0	4.0	7.0
2	7.0	4.5	5.5	14.0	9.0	11.5	14.0	8.5	11.5	10.5	4.5	7.0
3	4.5	2.5	3.5	13.0	8.5	10.5	14.5	8.5	11.0	11.5	4.5	7.5
4	5.0	3.0	4.0	12.5	8.0	10.0	12.5	9.0	10.5	12.0	5.0	8.0
5	10.0	4.0	6.5	13.0	7.5	10.0	14.0	8.5	11.0	13.0	5.5	8.5
6	9.5	4.5	7.0	13.5	8.5	11.0	13.0	9.5	11.0	13.5	6.0	9.5
7	8.5	3.0	6.0	14.0	9.5	11.5	13.0	7.5	10.0	13.5	6.0	9.5
8	8.5	3.0	5.5	13.5	9.0	11.0	12.0	8.0	10.0	14.0	6.5	10.0
9	8.0	3.5	5.5	13.5	8.5	11.0	12.0	8.5	10.0	11.0	7.0	9.0
10	9.5	4.0	6.5	14.0	9.0	11.5	10.5	8.5	9.5	12.0	6.5	9.0
11	9.5	4.5	7.5	14.5	9.5	12.0	12.0	7.0	9.5	13.5	6.5	10.0
12	10.0	5.0	7.5	15.0	10.0	12.5	14.5	8.0	10.5	13.5	7.0	10.0
13	10.5	5.5	8.0	14.5	11.0	12.5	14.5	8.5	11.5	13.0	7.0	9.5
14	11.5	6.0	8.5	14.5	10.5	12.5	14.0	8.0	10.5	13.5	7.0	10.0
15	9.5	6.0	8.0	14.0	10.5	12.0	13.5	7.0	10.0	13.5	6.5	9.5
16	11.0	6.0	8.5	13.5	10.0	11.5	14.5	8.0	11.0	13.0	6.5	9.5
17	12.0	6.5	9.0	12.5	9.5	11.0	14.5	8.5	11.5	12.0	6.5	9.5
18	10.5	6.0	9.0	12.0	9.5	11.0	15.0	9.0	11.5	10.5	8.5	9.5
19	12.0	6.5	9.0	12.0	9.5	11.0	15.5	8.0	11.5	12.5	7.0	9.5
20	11.5	6.5	9.5	12.0	9.5	10.5	15.5	8.0	11.5	12.0	7.5	9.5
21	11.5	7.5	9.5	11.5	9.0	10.5	14.5	8.0	11.5	13.5	7.0	10.0
22	12.5	7.5	10.0	12.0	9.5	10.5	13.5	8.5	11.0	11.5	8.0	9.5
23	12.5	8.0	10.5	12.0	10.0	11.0	14.5	8.5	11.0	14.5	8.0	10.5
24	12.5	8.0	10.5	12.0	9.5	11.0	15.0	8.0	11.0	14.0	7.0	10.0
25	11.5	6.5	9.0	12.0	9.5	11.0	14.5	8.5	11.0	14.0	7.5	10.5
26	11.0	5.5	8.5	13.0	10.0	11.5	11.5	9.5	10.5	14.0	7.5	10.0
27	11.5	6.0	8.5	13.0	10.0	11.5	13.5	8.5	11.0	13.0	6.5	9.5
28	12.0	7.0	9.5	13.5	10.0	11.5	14.5	8.0	11.0	11.5	5.5	8.0
29	12.5	8.0	10.5	14.0	10.0	12.0	14.5	7.5	11.0	11.5	5.0	8.0
30	13.0	8.0	10.5	13.5	9.5	11.5	13.0	8.0	10.0	12.0	6.0	8.5
31	---	---	---	14.5	9.5	12.0	11.5	5.0	8.0	---	---	---
MONTH	13.0	2.5	7.9	15.0	7.5	11.3	15.5	5.0	10.7	14.5	4.0	9.2
YEAR	15.5	.0	4.9									

PYRAMID AND WINNEMUCCA LAKES BASIN
10336795 TROUT CREEK NEAR MOUTH EAST NEAR BELLEVUE/ELDORADO AVE, CA
(Lake Tahoe Interagency Monitoring Program)

LOCATION.--Lat 38°56'12", long 119°59'23", in NE¹/₄ NE¹/₄ sec.04, T.12 N., R.18 E., El Dorado County, Hydrologic Unit 16050101, on right bank, east channel, about 0.4 mi upstream from Lake Tahoe and about 0.8 mi downstream of U.S. Highway 50.

DRAINAGE AREA.--41 mi².

PERIOD OF RECORD.--September 1997 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1997 to current year.

INSTRUMENTATION.--Water temperature recorder since September 1997, two times per hour.

REMARKS.--In September 1997, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor streamflows and water temperature within the Upper Truckee River-Trout Creek watershed. Records represent water temperature at probe within 0.5°C. Water temperature records for September 1997 were not published but are available from the U.S. Geological Survey, Carson City, NV.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 17.5°C, August 30, September 5, 1998; minimum, freezing point during winter months in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.5°C, July 12, August 24, 28; minimum, freezing point, many days November to April.

DAY	TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999											
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.5	6.5	8.5	6.5	2.5	4.0	2.0	.0	.5	1.5	.0	.0
2	11.5	6.5	8.5	5.0	1.0	2.5	2.5	.0	1.0	1.0	.0	.0
3	9.5	5.0	7.0	6.0	1.5	3.0	2.0	.0	1.0	.5	.0	.0
4	9.0	3.5	5.5	5.5	1.5	3.0	.5	.0	.0	.5	.0	.0
5	9.5	3.5	6.0	4.5	1.0	2.5	.0	.0	.0	1.5	.0	.5
6	9.0	3.5	6.0	2.0	1.0	1.5	.0	.0	.0	1.0	.0	.5
7	9.5	3.5	6.5	3.0	.5	1.5	.0	.0	.0	3.0	.0	.5
8	10.0	4.0	6.5	3.5	.5	1.5	.5	.0	.0	2.5	.0	.5
9	8.5	3.0	5.5	3.5	.0	1.5	.5	.0	.0	1.0	.0	.0
10	8.0	2.0	5.0	2.5	.0	1.5	.5	.0	.0	1.5	.0	.5
11	8.5	2.0	5.0	4.5	.5	2.0	.5	.0	.0	2.0	.0	.5
12	7.5	2.5	5.0	3.5	.0	1.0	.5	.0	.0	3.0	.0	1.0
13	9.5	3.5	6.0	3.5	.0	1.5	1.5	.0	.5	3.5	.0	1.0
14	8.5	3.5	5.5	5.0	.5	2.5	2.0	.0	.5	3.0	.0	1.5
15	7.5	3.5	5.0	4.5	.5	2.5	2.5	.0	.5	4.0	1.5	2.5
16	7.0	2.0	4.0	4.5	.5	2.5	3.0	.0	1.0	2.5	1.0	1.5
17	6.5	.5	3.0	3.0	1.0	2.0	3.0	.0	1.0	4.0	1.5	2.5
18	6.5	1.0	3.0	2.5	.0	1.0	2.0	.0	.5	2.5	.0	1.0
19	7.0	1.0	3.5	3.0	.0	.5	.5	.0	.0	1.0	.0	.0
20	7.5	2.0	4.5	2.5	.0	.5	.0	.0	.0	.5	.0	.0
21	7.5	2.0	4.5	4.5	1.0	2.5	.0	.0	.0	.0	.0	.0
22	7.5	3.0	5.0	4.0	1.0	2.0	.0	.0	.0	2.0	.0	.5
23	7.5	2.5	4.5	3.5	1.5	2.5	.0	.0	.0	1.0	.0	.0
24	5.0	4.0	4.5	3.5	.5	2.0	.0	.0	.0	.0	.0	.0
25	4.0	3.0	3.5	4.5	.5	2.0	.0	.0	.0	.0	.0	.0
26	7.5	3.0	5.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0
27	7.0	3.0	5.0	3.5	1.0	2.0	.5	.0	.0	.0	.0	.0
28	7.0	4.0	5.0	2.5	1.5	2.0	.5	.0	.0	.0	.0	.0
29	7.0	2.5	4.5	1.5	.0	1.0	.5	.0	.0	.0	.0	.0
30	6.0	1.5	3.0	3.5	.0	1.5	.5	.0	.0	.0	.0	.0
31	5.0	.5	2.5	---	---	---	1.0	.0	.5	.5	.0	.0
MONTH	11.5	.5	5.0	6.5	.0	1.9	3.0	.0	.2	4.0	.0	.5

10336795 TROUT CREEK NEAR MOUTH EAST NEAR BELLEVUE/ELDORADO AVE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	1.0	.0	.0	6.0	1.5	3.0	3.0	.0	1.0	9.5	3.5	6.0
2	1.0	.0	.5	5.5	.5	2.5	6.5	.0	2.5	7.0	3.5	5.0
3	3.5	.0	1.0	5.5	1.5	3.0	2.0	.0	.5	5.5	2.0	3.5
4	3.0	.0	1.0	4.5	1.0	2.5	5.5	.0	2.0	9.0	1.5	5.0
5	3.5	.0	1.5	3.0	.0	1.0	1.5	.0	.5	10.0	2.5	6.0
6	1.0	.0	.5	5.0	.5	2.0	2.5	.0	1.0	10.5	3.0	6.5
7	.0	.0	.0	5.0	.5	2.0	3.0	.5	1.0	10.0	3.0	6.5
8	.0	.0	.0	3.5	.0	1.5	1.0	.0	.5	9.0	2.5	5.5
9	.0	.0	.0	1.5	.0	.5	3.5	.0	1.0	8.5	2.0	5.5
10	.0	.0	.0	1.5	.0	.5	3.5	.0	1.5	8.0	2.5	5.0
11	.0	.0	.0	4.5	.0	1.5	7.0	1.0	3.5	10.5	3.5	7.0
12	.0	.0	.0	4.0	.0	1.5	8.5	.5	4.0	9.5	4.0	6.5
13	.0	.0	.0	6.5	.0	2.5	9.5	1.0	5.0	9.5	2.5	6.0
14	.0	.0	.0	6.5	1.0	3.0	9.0	1.0	5.0	9.0	2.0	5.5
15	.0	.0	.0	6.0	1.0	3.0	9.0	1.0	4.5	9.0	2.5	5.5
16	.5	.0	.0	7.0	1.0	3.5	8.5	1.5	4.5	9.5	2.5	6.0
17	2.5	.5	1.0	7.0	1.0	3.5	9.5	2.0	5.0	9.5	3.0	6.5
18	1.5	.0	.5	7.0	1.0	4.0	8.0	1.5	4.5	8.5	3.0	6.0
19	1.5	.0	.5	5.5	2.0	3.5	9.0	2.5	5.0	10.5	3.0	6.5
20	.5	.0	.0	4.0	2.0	3.0	8.5	2.0	5.0	9.5	3.5	6.5
21	.0	.0	.0	5.5	1.0	3.0	7.0	2.0	4.0	11.0	3.5	7.0
22	2.5	.0	.5	6.5	.5	3.0	6.5	2.0	4.0	11.5	4.0	7.5
23	4.0	.0	1.5	7.0	1.0	3.5	5.0	2.0	3.5	12.0	4.0	8.0
24	4.5	.0	2.0	6.0	1.5	3.5	9.0	2.0	5.0	10.0	5.0	7.5
25	1.5	.0	.5	7.5	2.0	4.0	10.0	2.5	6.0	12.5	5.0	8.5
26	2.5	.0	1.0	8.0	2.0	4.5	6.0	3.0	4.5	12.5	5.0	8.5
27	6.0	1.0	3.0	7.0	1.0	3.5	8.5	3.0	5.5	13.0	4.5	9.0
28	5.5	1.0	2.5	7.0	.5	3.5	4.0	1.5	2.5	13.0	4.5	8.5
29	---	---	---	6.0	1.0	3.0	4.5	1.0	3.0	9.5	4.5	7.0
30	---	---	---	6.5	.5	3.0	9.0	2.5	5.5	12.5	4.0	8.0
31	---	---	---	3.0	.0	1.0	---	---	---	12.0	5.0	8.5
MONTH	6.0	.0	.6	8.0	.0	2.7	10.0	.0	3.4	13.0	1.5	6.6
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE				JULY			AUGUST			SEPTEMBER		
1	10.0	5.0	7.5	15.5	9.5	12.5	16.0	9.5	12.5	11.5	5.5	8.5
2	9.5	5.0	6.5	15.5	9.5	12.5	15.0	8.5	12.0	12.5	6.0	9.0
3	5.5	3.0	4.0	14.0	9.0	11.5	15.5	8.5	11.5	13.0	5.5	9.0
4	6.5	3.5	4.5	14.0	8.5	11.0	13.5	9.0	11.0	13.5	6.5	9.5
5	12.0	4.5	8.0	14.0	8.0	11.0	15.0	8.5	11.5	14.5	6.5	10.0
6	11.5	5.5	8.0	14.5	8.5	11.5	13.5	10.0	11.0	15.0	7.5	11.0
7	10.0	3.5	7.0	15.5	9.5	12.5	13.5	8.0	10.5	15.0	7.5	11.0
8	10.0	3.5	7.0	14.5	9.0	12.0	13.0	8.5	10.5	15.5	8.0	11.5
9	10.0	4.0	7.0	14.5	8.5	11.5	12.5	8.5	10.5	12.0	8.0	10.5
10	11.0	4.5	7.5	15.0	9.5	12.0	11.5	9.0	10.0	13.0	7.5	10.0
11	11.5	5.5	8.5	16.0	10.0	13.0	12.5	7.5	10.0	15.0	7.5	11.0
12	12.0	5.5	9.0	16.5	10.5	13.5	15.0	8.0	11.0	15.0	7.5	11.0
13	12.5	6.5	9.5	16.0	11.5	13.5	15.5	9.0	12.0	14.5	7.5	10.5
14	13.5	6.5	10.0	16.0	10.5	13.5	14.5	8.5	11.0	14.5	7.5	10.5
15	11.0	7.0	9.5	16.0	10.0	13.0	14.0	7.5	10.5	14.5	7.0	10.5
16	13.5	7.0	10.0	15.0	9.5	12.5	15.5	8.5	11.5	14.0	7.0	10.0
17	14.0	7.0	10.5	14.5	8.5	11.5	15.5	8.5	12.0	13.0	7.0	10.0
18	13.5	7.0	10.5	14.0	8.0	11.0	15.5	9.5	12.0	11.5	9.0	10.0
19	14.0	8.0	10.5	14.5	8.5	11.5	16.0	8.5	12.0	13.0	7.5	10.0
20	14.0	7.5	11.0	14.0	8.5	11.0	16.0	9.0	12.5	12.5	8.0	10.0
21	14.0	8.5	11.0	13.5	7.5	10.5	16.0	9.0	12.0	14.0	7.0	10.5
22	15.0	8.0	11.5	14.5	8.5	11.5	14.5	9.0	12.0	12.0	8.0	10.0
23	15.5	9.0	12.0	14.5	8.5	11.5	15.5	9.0	12.0	15.0	8.5	11.0
24	15.0	9.0	11.5	14.5	8.5	11.5	16.5	8.5	12.0	14.5	7.5	10.5
25	13.5	7.5	10.5	14.5	8.5	11.5	16.0	9.5	12.5	15.0	7.5	11.0
26	12.5	6.5	9.5	15.5	9.0	12.5	13.0	10.5	11.5	14.5	8.0	11.0
27	13.0	6.5	10.0	15.5	9.5	12.5	15.5	10.0	12.5	13.5	7.0	10.0
28	14.0	7.5	11.0	15.5	9.5	12.5	16.5	9.0	12.5	12.0	5.5	8.5
29	14.5	8.5	11.5	16.0	9.5	12.5	16.0	9.0	12.5	12.0	5.0	8.5
30	15.0	9.0	12.0	15.5	8.5	12.0	14.5	9.0	11.5	13.0	6.0	9.0
31	---	---	---	16.0	9.5	12.5	13.0	6.5	9.5	---	---	---
MONTH	15.5	3.0	9.2	16.5	7.5	12.0	16.5	6.5	11.5	15.5	5.0	10.1
YEAR	16.5	.0	5.3									

PYRAMID AND WINNEMUCCA LAKES BASIN

10337000 LAKE TAHOE AT TAHOE CITY, CA

LOCATION.--Lat 39°10'51", long 120°07'06", in NE 1/4 NE 1/4 sec.5, T.15 N., R.17 E., Placer County, Hydrologic Unit 16050101, on U.S. Coast Guard pier at Lake Forest, 1.1 mi northeast of Tahoe City, 1.8 mi northeast of Lake Tahoe outlet dam on Truckee River at Tahoe City and at mi 116.27 upstream from Marble Bluff Dam.

DRAINAGE AREA.--506 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 October 1, 1957, nonrecording gages at several sites near outlet of lake at same datum except for water years 1907 and 1908, which were at a datum 5.5 ft higher. October 1, 1957, to May 8, 1958, water-stage recorder on left wingwall of dam at outlet of lake at same datum. May 9, 1958, to September 30, 1968, water-stage recorder on pier, 1,000 ft east of dam at lake outlet.

REMARKS.--Lake levels regulated by a 17-gate concrete dam at outlet of lake; storage began about 1874. Monthly figures given represent usable contents. Usable capacity, 744,600 acre-ft between elevations 6,223 ft, natural rim of lake, and 6,229.1 ft, maximum permissible elevation by Federal Court decree. Lake elevations are referred to U.S. Bureau of Reclamation datum because that datum is used as the official reference point by all local, State, and Federal agencies. There are minor diversions for domestic purposes, irrigation, and power. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,231.26 ft, July 14, 15, 17, 18, 1907; minimum, 6,220.26 ft, November 30, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,228.93 ft, July 13; minimum, 6,227.49 ft, January 12.

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 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.24	7.71	7.80	7.54	7.91	8.08	7.84	7.97	8.55	8.91	8.72	8.32
2	8.21	7.70	7.80	7.53	7.90	8.07	7.84	7.96	8.56	8.87	8.71	8.28
3	8.19	7.69	7.84	7.52	7.89	8.05	7.85	7.99	8.62	8.87	8.70	8.29
4	8.19	7.67	7.82	7.52	7.88	8.03	7.84	7.99	8.63	8.91	8.71	8.26
5	8.12	7.67	7.83	7.52	7.86	8.01	7.90	8.00	8.63	8.88	8.66	8.25
6	8.13	7.65	7.83	7.52	7.93	7.98	7.94	8.00	8.62	8.89	8.66	8.23
7	8.07	7.66	7.81	7.52	8.10	7.96	7.93	8.00	8.63	8.90	8.63	8.22
8	8.07	7.65	7.80	7.51	8.23	7.95	7.97	8.02	8.65	8.88	8.64	8.22
9	8.01	7.64	7.78	7.51	8.36	7.97	7.96	8.01	8.65	8.89	8.62	8.22
10	8.03	7.63	7.77	7.51	8.33	7.95	7.96	8.02	8.66	8.89	8.63	8.20
11	8.00	7.65	7.76	7.51	8.29	7.93	7.95	8.03	8.67	8.90	8.61	8.19
12	7.99	7.63	7.75	7.49	8.27	7.93	7.95	8.04	8.68	8.91	8.60	8.17
13	7.98	7.63	7.74	7.50	8.24	7.90	7.95	8.02	8.71	8.93	8.59	8.15
14	7.95	7.60	7.73	7.50	8.21	7.89	7.95	8.06	8.71	8.91	8.53	8.14
15	7.92	7.61	7.71	7.56	8.18	7.88	7.94	8.08	8.73	8.90	8.55	8.13
16	7.90	7.61	7.70	7.54	8.22	7.87	7.95	8.08	8.76	8.89	8.53	8.12
17	7.88	7.61	7.69	7.59	8.22	7.86	7.95	8.09	8.77	8.88	8.53	8.11
18	7.88	7.61	7.68	7.69	8.23	7.86	7.95	8.11	8.78	8.87	8.51	8.11
19	7.85	7.59	7.67	7.84	8.21	7.85	7.95	8.13	8.81	8.86	8.49	8.10
20	7.84	7.58	7.67	7.94	8.22	7.85	7.95	8.15	8.82	8.84	8.49	8.09
21	7.80	7.56	7.65	7.95	8.22	7.84	7.97	8.17	8.84	8.85	8.47	8.08
22	7.81	7.60	7.63	7.95	8.19	7.83	7.97	8.19	8.86	8.83	8.48	8.07
23	7.80	7.67	7.61	8.02	8.16	7.83	7.98	8.22	8.87	8.81	8.46	8.05
24	7.81	7.67	7.60	8.01	8.13	7.82	7.97	8.26	8.85	8.81	8.45	8.04
25	7.78	7.65	7.60	7.99	8.15	7.82	7.96	8.32	8.88	8.78	8.45	8.03
26	7.77	7.63	7.59	7.99	8.13	7.82	7.98	8.36	8.88	8.79	8.44	8.02
27	7.75	7.61	7.56	7.96	8.10	7.81	7.96	8.40	8.88	8.78	8.42	8.02
28	7.73	7.65	7.56	7.96	8.13	7.79	7.97	8.42	8.90	8.78	8.43	7.96
29	7.75	7.71	7.55	7.94	---	7.79	7.98	8.46	8.90	8.75	8.41	7.97
30	7.72	7.82	7.57	7.90	---	7.81	7.97	8.49	8.90	8.75	8.40	7.95
31	7.71	---	7.55	7.92	---	7.84	---	8.53	---	8.73	8.31	---
MEAN	7.93	7.65	7.70	7.71	8.14	7.90	7.94	8.15	8.75	8.85	8.54	8.13
MAX	8.24	7.82	7.84	8.02	8.36	8.08	7.98	8.53	8.90	8.93	8.72	8.32
MIN	7.71	7.56	7.55	7.49	7.86	7.79	7.84	7.96	8.55	8.73	8.31	7.95
a	573,400	586,900	554,000	599,300	625,100	589,400	605,600	674,400	719,700	698,800	647,200	603,100
b	-67,900	+13,500	-32,900	+45,300	+25,800	-35,700	+16,200	+68,800	+45,300	-20,900	-51,600	-44,100

CAL YR 1998 MEAN 8.13 MAX 9.05 MIN 6.84 b +86,700

WTR YR 1999 MEAN 8.12 MAX 8.93 MIN 7.49 b -38,200

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
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, and at mi 116.2 upstream from Marble Bluff Dam.

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."

WATER TEMPERATURE: June 1993 to September 1994.

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 November 12, 1912, nonrecording gage at site 370 ft upstream at different datum. November 12, 1912, to September 30, 1937, nonrecording gage; October 1, 1937, to August 21, 1957, water-stage recorder at datum 2.26 ft higher; and August 22, 1957, to July 10, 1960, at datum 2.42 ft higher; all at site 270 ft upstream.

REMARKS.--Records good. Flow completely regulated by dam at outlet of Lake Tahoe (station 10337000), 510 ft upstream. There are several diversions for irrigation, power, and domestic water supply. In addition, sewer effluent is pumped from the Lake Tahoe basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,690 ft³/s, January 2, 1997, gage height, 9.59 ft; no flow for parts of many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	334	201	193	226	622	1990	202	700	747	319	260	285
2	332	201	285	223	621	1990	201	700	747	317	260	285
3	332	193	342	229	619	1990	199	701	749	317	260	285
4	332	201	433	228	513	1980	198	700	750	317	273	283
5	340	201	480	208	391	1690	198	700	750	318	303	284
6	365	201	486	126	392	1270	198	701	750	270	302	284
7	362	202	528	76	575	1310	238	703	749	157	302	283
8	362	201	581	58	904	1310	337	705	748	86	303	282
9	361	202	594	57	1490	1310	380	705	748	81	303	282
10	361	203	593	57	1930	1310	388	705	748	80	281	283
11	361	204	591	57	1970	1310	390	707	678	79	268	285
12	361	202	589	57	2000	1070	390	710	621	79	268	284
13	360	201	587	58	1990	916	390	710	621	77	268	284
14	336	201	584	57	1980	913	391	710	621	76	267	285
15	305	202	584	58	1970	817	391	710	631	75	268	284
16	267	203	581	60	1970	644	443	710	636	137	277	284
17	245	201	579	60	1980	599	493	710	634	198	292	284
18	249	199	577	64	1980	600	496	715	633	205	293	283
19	245	175	576	61	1990	600	559	715	633	206	292	283
20	220	148	576	199	1970	600	658	717	633	208	292	274
21	201	149	577	474	1990	598	698	719	605	209	293	256
22	203	148	577	584	1980	598	698	720	533	239	292	252
23	201	153	573	778	1970	498	697	722	528	260	293	235
24	201	151	571	957	1960	397	697	725	528	260	292	209
25	203	151	569	953	1960	398	698	728	529	260	291	208
26	204	148	568	949	1960	367	701	731	529	260	291	208
27	203	148	568	948	1960	301	700	735	529	260	292	210
28	204	150	434	761	1980	299	698	741	496	260	291	207
29	207	151	308	623	---	299	696	743	429	260	290	208
30	200	154	308	622	---	260	698	745	365	260	289	175
31	200	---	270	620	---	203	---	747	---	260	287	---
TOTAL	8657	5445	15662	10488	43617	28437	14121	22190	18898	6390	8833	7834
MEAN	279	182	505	338	1558	917	471	716	630	206	285	261
MAX	365	204	594	957	2000	1990	701	747	750	319	303	285
MIN	200	148	193	57	391	203	198	700	365	75	260	175
AC-FT	17170	10800	31070	20800	86510	56400	28010	44010	37480	12670	17520	15540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	181	197	234	242	301	264	181	169	239	274	312	267
MAX	413	1575	2209	2561	2375	2235	1806	1746	1673	1071	638	687
(WY)	1910	1983	1984	1997	1997	1986	1983	1958	1969	1983	1918	1983
MIN	.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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	183336		190572			
ANNUAL MEAN	502		522		236	
HIGHEST ANNUAL MEAN					1150	
LOWEST ANNUAL MEAN					.15	
HIGHEST DAILY MEAN	1780	Jun 20	2000	Feb 12	2630	Jan 3 1997
LOWEST DAILY MEAN	42	Feb 4	57	Jan 9	.00	Jan 4 1914
ANNUAL SEVEN-DAY MINIMUM	45	Jan 30	57	Jan 8	.00	Jan 23 1914
INSTANTANEOUS PEAK FLOW			2020	Feb 11	2690	Jan 2 1997
INSTANTANEOUS PEAK STAGE			7.92	Feb 11	9.59	Jan 2 1997
ANNUAL RUNOFF (AC-FT)	363600		378000		171000	
10 PERCENT EXCEEDS	1180		929		486	
50 PERCENT EXCEEDS	341		340		143	
90 PERCENT EXCEEDS	149		175		.00	

PYRAMID AND WINNEMUCCA LAKES BASIN
10338000 TRUCKEE RIVER NEAR TRUCKEE, CA

LOCATION.--Lat 39°17'17", long 120°12'16", in SW 1/4 NE 1/4 sec.28, T.17 N., R.16 E., Placer County, Hydrologic Unit 16050102, Tahoe National Forest, on left bank 1.4 mi downstream from Cabin Creek, 2.5 mi southwest of Truckee, and at mi 103.62 upstream from Marble Bluff Dam.

DRAINAGE AREA.--553 mi².

PERIOD OF RECORD.--December 1944 to September 1961, June 1977 to September 1982, October 1992 to September 1995, October 1996 to current year. Monthly discharge only for some periods, published in WSP 1314.

SPECIFIC CONDUCTANCE: July 1977 to September 1982.

WATER TEMPERATURE: July 1977 to September 1982, March 1993 to September 1994.

REVISED RECORDS.--WDR CA-77-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,857.66 ft above sea level.

REMARKS.--Records good. Flow regulated by Lake Tahoe (station 10337000), operating capacity, 744,600 acre-feet. See schematic diagram of Truckee River basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,900 ft³/s, January 2, 1997, gage height, 9.97 ft, from rating curve extended above 3,100 ft³/s on basis of slope-area measurements at gage heights 7.62 ft and 7.92 ft; minimum daily, 3.4 ft³/s, several days in August 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	230	268	254	670	2110	335	1020	1340	566	276	290
2	351	222	340	242	665	2090	322	1060	1300	553	275	289
3	350	213	437	250	665	2120	314	1000	1170	520	274	288
4	350	216	494	250	603	2090	304	964	1080	485	277	287
5	352	216	533	246	444	1880	300	973	1080	460	314	286
6	378	217	539	163	442	1350	293	1050	1130	424	319	286
7	377	229	568	115	621	1380	310	1140	1120	313	317	286
8	377	229	617	80	967	1380	413	1140	1090	213	315	286
9	377	228	629	78	1450	1380	461	1110	1080	190	316	287
10	377	228	626	76	1950	1370	470	1100	1090	185	311	287
11	377	229	623	75	1990	1360	477	1160	1070	184	288	289
12	377	228	619	74	2040	1190	483	1290	1020	179	284	286
13	377	228	619	74	2030	1010	503	1280	1050	176	279	286
14	360	228	619	74	2010	1020	526	1180	1080	172	276	286
15	325	228	619	82	2000	950	541	1110	1090	158	276	286
16	299	228	619	108	2000	771	604	1100	1100	178	280	284
17	257	236	619	104	2060	718	723	1160	1070	250	297	283
18	265	230	619	218	2030	740	791	1220	1050	256	296	285
19	256	215	618	172	2010	757	919	1250	1030	254	295	284
20	245	174	612	250	2000	746	1060	1280	1000	252	295	282
21	220	176	612	534	2000	734	1110	1300	978	250	296	258
22	220	186	612	674	1990	729	1050	1370	910	265	295	255
23	220	260	612	825	1990	670	983	1430	902	289	295	250
24	225	235	607	1020	1980	539	969	1550	891	288	295	220
25	224	198	602	1020	1970	548	1040	1650	830	287	295	218
26	220	189	598	1010	1970	570	1120	1700	781	285	295	216
27	220	185	598	1000	1970	503	1100	1640	760	284	296	216
28	220	183	509	867	2020	488	1040	1560	734	281	295	215
29	221	193	337	680	---	476	966	1410	683	279	293	212
30	220	346	335	675	---	443	956	1350	629	278	290	199
31	220	---	311	675	---	354	---	1360	---	277	291	---
TOTAL	9212	6603	16970	11965	44537	32466	20483	38907	30138	9031	9096	7982
MEAN	297	220	547	386	1591	1047	683	1255	1005	291	293	266
MAX	378	346	629	1020	2060	2120	1120	1700	1340	566	319	290
MIN	220	174	268	74	442	354	293	964	629	158	274	199
AC-FT	18270	13100	33660	23730	88340	64400	40630	77170	59780	17910	18040	15830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1999, BY WATER YEAR (WY)

	199	208	299	351	387	356	418	587	509	304	282	259
MEAN	199	208	299	351	387	356	418	587	509	304	282	259
MAX	387	551	1483	3190	2537	1421	1734	2403	1843	635	492	453
(WY)	1948	1951	1997	1997	1997	1952	1958	1958	1998	1959	1959	1954
MIN	7.27	11.3	14.2	8.82	12.2	58.1	98.3	122	34.5	6.40	3.56	4.72
(WY)	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1945 - 1999
ANNUAL TOTAL	232940	237390	
ANNUAL MEAN	638	650	352
HIGHEST ANNUAL MEAN			941
LOWEST ANNUAL MEAN			32.4
HIGHEST DAILY MEAN	2490	2120	8900
LOWEST DAILY MEAN	92	74	3.4
ANNUAL SEVEN-DAY MINIMUM	95	76	3.4
INSTANTANEOUS PEAK FLOW		2140	11900
INSTANTANEOUS PEAK STAGE		4.08	9.97
ANNUAL RUNOFF (AC-FT)	462000	470900	254900
10 PERCENT EXCEEDS	1320	1370	615
50 PERCENT EXCEEDS	377	437	240
90 PERCENT EXCEEDS	198	216	46

PYRAMID AND WINNEMUCCA LAKES BASIN
10338400 DONNER LAKE NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'30", long 120°16'53", in SE 1/4 NW 1/4 sec.14, T.17 N., R.15 E., Nevada County, Hydrologic Unit 16050102, on north shore, 2.5 mi upstream from outlet gates, and 4.9 mi west of Truckee.

DRAINAGE AREA.--14.0 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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 12,800 acre-ft, January 2 1997, elevation, 5,938.08 ft; minimum, 2,510 acre-ft, January 24, 28-31, 1991, elevation, 5,927.23 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 9,490 acre-ft, July 1, 1997 elevation, 5,935.80 ft; minimum, 3,270 acre-ft, January 11, elevation, 5,928.21 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	5,934	7,970
5,926.0	1,600	5,936	9,670
5,928.0	3,120	5,938	12,000
5,930.0	4,690	5,940	14,700
5,932	6,310		

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6950	4660	3970	3350	3720	3870	3910	5090	8080	9490	9020	8480
2	6850	4640	3940	3340	3690	3890	3880	5200	8050	9440	8990	8450
3	6740	4590	4060	3320	3640	4000	3840	5210	7970	9440	8970	8420
4	6600	4510	4030	3330	3650	4000	3810	5140	7930	9460	8950	8380
5	6490	4390	3990	3320	3620	3970	3880	5100	7980	9440	8920	8350
6	6410	4260	3950	3320	3700	3930	3850	5140	8110	9420	8920	8350
7	6290	4330	3910	3320	3870	3880	3800	5280	8220	9400	8890	8340
8	6200	4120	3830	3310	4030	3870	3840	5370	8370	9400	8890	8340
9	6120	4030	3790	3300	4190	3880	3780	5410	8550	9360	8890	8370
10	6030	3970	3770	3290	4120	3830	3750	5430	8750	9360	8900	8330
11	5950	3910	3720	3270	4060	3790	3720	5540	8940	9340	8880	8270
12	5870	3800	3670	3280	3960	3720	3690	5760	9080	9330	8870	8220
13	5780	3730	3640	3280	3880	3690	3710	5860	9210	9340	8830	8160
14	5650	3670	3630	3280	3870	3670	3750	5960	9310	9330	8810	8110
15	5540	3610	3590	3350	3820	3670	3780	6070	9390	9310	8790	8070
16	5490	3550	3570	3430	3870	3660	3840	6210	9440	9250	8780	8000
17	5380	3580	3550	3500	3910	3680	3930	6420	9440	9230	8760	7930
18	5370	3550	3480	3780	3920	3710	4050	6650	9390	9210	8740	7870
19	5280	3510	3520	4000	3880	3750	4220	6880	9300	9200	8720	7780
20	5210	3480	3520	4140	3870	3740	4400	7100	9220	9190	8690	7740
21	5150	3480	3500	4130	3880	3750	4590	7370	9160	9170	8680	7630
22	5090	3480	3480	4120	3840	3740	4660	7680	9180	9160	8660	7520
23	5020	3690	3460	4190	3790	3720	4700	8040	9240	9140	8630	7390
24	5020	3710	3460	4100	3740	3750	4730	8650	9280	9120	8590	7230
25	4990	3630	3430	4040	3780	3760	4870	9040	9300	9110	8590	7060
26	4920	3580	3420	3970	3750	3810	5090	9050	9330	9100	8590	6910
27	4860	3560	3380	3920	3710	3850	5110	8880	9370	9100	8570	6740
28	4830	3520	3380	3880	3800	3880	5110	8720	9420	9080	8580	6590
29	4820	3660	3380	3830	---	3900	5090	8480	9470	9050	8560	6440
30	4760	3910	3330	3770	---	3940	5040	8250	9470	9040	8540	6330
31	4700	---	3340	3770	---	3960	---	8130	---	9030	8490	---
MAX	6950	4660	4060	4190	4190	4000	5110	9050	9470	9490	9020	8480
MIN	4700	3480	3330	3270	3620	3660	3690	5090	7930	9030	8490	6330
a	5930.01	5929.02	5928.30	5928.84	5928.88	5929.08	5930.45	5934.20	5935.78	5935.26	5934.63	5932.03
b	-2450	-790	-570	+430	+30	+160	+1080	+3090	+1340	-440	-540	-2160

CAL YR 1998 MAX 9530 MIN 3120 b +210
WTR YR 1999 MAX 9490 MIN 3270 b -820

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 October 3, 1989. Datum of gage is 5,924.40 ft above sea level. November 1, 1909, to August 31, 1910, nonrecording gage at different datum. January 1929 to December 1957, water-stage recorder at same site at unknown datum.

REMARKS.--Records good. Flow completely regulated at dam at outlet of Donner Lake (station 10338400) since 1928. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 863 ft³/s, January 2, 1997, gage height, 6.69 ft; no flow at times in many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	26	52	18	42	52	62	112	215	24	4.7	6.1
2	62	26	51	17	39	56	59	119	206	24	4.6	6.1
3	61	25	56	17	36	63	58	120	167	24	4.4	6.1
4	60	24	58	16	36	64	56	120	108	24	4.4	6.1
5	55	68	56	16	34	62	57	116	76	24	4.4	6.1
6	50	80	54	16	28	59	58	116	76	24	5.2	6.1
7	50	73	51	15	48	57	55	121	55	23	5.8	6.1
8	49	65	48	15	57	52	54	128	24	17	5.6	6.1
9	48	57	44	14	74	56	53	132	11	13	5.6	12
10	44	51	40	14	76	55	51	137	9.0	13	5.6	16
11	43	47	37	14	71	52	49	143	22	12	5.2	16
12	41	42	35	14	65	49	47	151	54	9.9	5.2	20
13	39	38	34	14	60	47	47	149	63	8.5	5.2	25
14	39	34	32	14	56	46	48	106	68	8.5	4.8	25
15	38	31	30	15	53	44	51	82	80	8.5	4.6	25
16	37	29	29	19	51	44	54	84	88	8.5	4.8	25
17	36	28	28	22	57	44	59	86	105	8.1	5.1	25
18	35	26	28	35	57	46	67	89	113	7.6	6.1	25
19	33	25	e26	50	56	48	78	91	112	7.5	6.7	25
20	33	23	e25	66	53	50	81	95	111	7.5	6.6	25
21	33	22	e24	74	55	50	80	96	93	6.7	6.4	33
22	32	22	e23	71	52	50	88	100	56	5.9	6.3	50
23	31	26	e22	76	49	49	91	104	39	5.6	6.1	69
24	30	34	22	72	46	49	91	109	39	5.6	6.4	78
25	29	32	22	67	47	49	95	185	39	5.6	6.3	78
26	29	30	21	64	46	52	106	394	24	5.6	6.1	76
27	29	28	20	59	43	57	114	457	14	5.4	6.1	74
28	29	27	19	54	43	58	116	401	14	5.2	6.1	73
29	28	28	18	51	---	61	114	392	14	4.9	6.1	73
30	27	42	18	47	---	61	112	372	19	4.7	6.1	71
31	26	---	18	45	---	64	---	282	---	4.7	6.1	---
TOTAL	1240	1109	1041	1101	1430	1646	2151	5189	2114.0	356.5	172.7	987.8
MEAN	40.0	37.0	33.6	35.5	51.1	53.1	71.7	167	70.5	11.5	5.57	32.9
MAX	64	80	58	76	76	64	116	457	215	24	6.7	78
MIN	26	22	18	14	28	44	47	82	9.0	4.7	4.4	6.1
AC-FT	2460	2200	2060	2180	2840	3260	4270	10290	4190	707	343	1960

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

	MEAN	29.6	27.6	31.3	33.9	32.7	37.4	52.8	87.5	47.8	12.4	7.99	25.2
MAX	85.7	195	214	284	198	182	144	243	244	67.2	52.7	99.1	
(WY)	1973	1951	1951	1997	1986	1986	1940	1952	1983	1934	1932	1983	
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1930	1930	1930	1929	1929	1929	1929	1929	1929	1929	1937	1936	1930

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1929 - 1999
ANNUAL TOTAL	19710.0	18538.0	
ANNUAL MEAN	54.0	50.8	36.4
HIGHEST ANNUAL MEAN			83.3
LOWEST ANNUAL MEAN			7.71
HIGHEST DAILY MEAN	258 Mar 25	457 May 27	820 Jan 2 1997
LOWEST DAILY MEAN	4.2 Aug 27	4.4 Aug 3	.00 Jan 1 1929
ANNUAL SEVEN-DAY MINIMUM	4.3 Aug 22	4.6 Jul 30	.00 Jan 1 1929
INSTANTANEOUS PEAK FLOW		494 May 26	863 Jan 2 1997
INSTANTANEOUS PEAK STAGE		5.59 May 26	6.69 Jan 2 1997
ANNUAL RUNOFF (AC-FT)	39090	36770	26400
10 PERCENT EXCEEDS	113	102	100
50 PERCENT EXCEEDS	41	42	13
90 PERCENT EXCEEDS	6.8	6.1	.00

PYRAMID AND WINNEMUCCA LAKES BASIN

10338700 DONNER CREEK AT HIGHWAY 89, NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'16", long 120°12'25", in NE 1/4 SW 1/4 sec.16, T.17 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on right bank, 50 ft upstream from State Highway 89 bridge, 0.5 mi upstream from mouth, and 1.4 mi southwest of Truckee.

DRAINAGE AREA.--29.1 mi².

PERIOD OF RECORD.--March 1993 to current year.

WATER TEMPERATURE: August 1993 to September 1994.

GAGE.--Water-stage recorder. Elevation of gage is 5,870 ft above sea level, from topographic map.

REMARKS.--Records good. About half the drainage area is regulated at dam at outlet of Donner Lake (station 10338400) 2.0 mi upstream. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, about 2,500 ft³/s, January 2, 1997, gage height, 12.76 ft, backwater from debris, on the basis of the flood routing the peak discharge between Truckee River near Truckee and Truckee River above Prosser Creek; minimum daily, 2.3 ft³/s, August 21, 22, 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	35	72	26	e59	109	104	217	503	128	14	9.2
2	74	33	65	25	e57	107	100	240	464	124	13	9.2
3	72	31	e68	24	e55	122	96	215	345	110	13	9.3
4	70	30	e70	23	e55	115	92	198	242	95	13	9.3
5	64	72	e66	23	e50	106	92	194	219	86	12	9.2
6	57	82	e63	23	e45	101	91	214	250	83	13	9.1
7	58	84	58	22	e60	96	86	254	212	80	13	9.1
8	56	63	55	21	e70	89	85	258	171	70	13	9.1
9	53	e60	e52	21	e100	e87	82	250	153	62	13	16
10	50	57	e50	21	e105	86	78	251	154	61	17	20
11	49	52	48	21	e100	82	78	282	182	61	14	20
12	47	46	46	20	e96	78	78	343	213	56	13	24
13	46	43	45	20	93	77	83	343	240	53	12	30
14	44	39	44	20	87	76	91	265	266	50	12	30
15	43	36	38	26	82	75	95	212	279	42	11	32
16	42	33	e37	39	82	75	104	213	293	37	11	31
17	e41	34	e36	41	102	77	121	231	300	33	11	31
18	40	31	35	e65	94	83	145	251	303	31	12	31
19	39	29	35	e70	90	89	181	270	295	29	12	31
20	39	26	34	e95	83	89	197	284	279	27	12	31
21	38	26	32	e100	83	88	199	297	260	24	12	39
22	37	30	32	e95	79	87	193	326	221	22	12	56
23	36	48	e32	e100	75	88	177	351	202	21	11	75
24	36	56	32	e95	72	89	178	428	197	20	11	83
25	35	e48	30	e90	73	92	205	552	167	19	11	81
26	34	38	30	e85	69	104	247	725	134	18	11	80
27	34	38	29	e80	68	114	246	e767	116	17	11	78
28	33	36	29	e75	76	114	220	713	117	17	10	77
29	34	40	28	e70	---	113	197	631	121	16	10	76
30	33	89	27	e65	---	111	192	602	124	15	9.7	74
31	32	---	27	e63	---	e115	---	539	---	14	9.3	---
TOTAL	1443	1365	1345	1564	2160	2934	4133	10916	7022	1521	372.0	1119.5
MEAN	46.5	45.5	43.4	50.5	77.1	94.6	138	352	234	49.1	12.0	37.3
MAX	77	89	72	100	105	122	247	767	503	128	17	83
MIN	32	26	27	20	45	75	78	194	116	14	9.3	9.1
AC-FT	2860	2710	2670	3100	4280	5820	8200	21650	13930	3020	738	2220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	MEAN	30.6	24.7	56.8	119	86.4	122	154	275	203	64.5	13.1	46.4
MAX	46.5	45.5	201	438	200	251	220	379	398	180	38.1	60.2	
(WY)	1999	1999	1997	1997	1996	1995	1993	1995	1995	1995	1995	1993	
MIN	15.8	8.35	10.4	9.27	11.6	30.9	39.8	64.8	19.8	14.2	3.24	37.3	
(WY)	1995	1994	1994	1994	1994	1994	1994	1994	1994	1997	1994	1999	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

ANNUAL TOTAL	37588.0	35894.5	
ANNUAL MEAN	103	98.3	97.0
HIGHEST ANNUAL MEAN			142
LOWEST ANNUAL MEAN			25.9
HIGHEST DAILY MEAN	590	767	2380
LOWEST DAILY MEAN	7.9	9.1	2.3
ANNUAL SEVEN-DAY MINIMUM	8.3	9.2	2.5
INSTANTANEOUS PEAK FLOW		931	2500
INSTANTANEOUS PEAK STAGE		6.90	12.76
ANNUAL RUNOFF (AC-FT)	74560	71200	70280
10 PERCENT EXCEEDS	267	244	263
50 PERCENT EXCEEDS	63	65	55
90 PERCENT EXCEEDS	16	14	8.4

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN

10339400 MARTIS CREEK NEAR TRUCKEE, CA

LOCATION.--Lat 39°19'44", long 120°07'00", in NE 1/4 NW 1/4 sec.17, T.17 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank 0.2 mi downstream from Martis Creek Lake Dam, 1.8 mi upstream from mouth, and 3.5 mi east of Truckee.

DRAINAGE AREA.--39.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1958 to November 1990, June 1993 to current year.

REVISED RECORDS.--WDR CA-79-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,730 ft above sea level, from topographic map. Prior to July 10, 1972, at site 1.0 mi downstream at different datum.

REMARKS.--Records good. Flow is completely regulated by Martis Creek Lake (station 10339380) since October 7, 1971. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,880 ft³/s, February 1, 1963, gage height, 6.16 ft, site and datum then in use; minimum, 1.3 ft³/s, July 30, 1961. Maximum discharge since construction of Martis Creek Lake Dam in 1971, 663 ft³/s, February 28, 1986, gage height, 5.66 ft; maximum gage height, 6.01 ft, April 2, 1974; minimum daily, 0.20 ft³/s, November 9–14, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	53	15	25	65	70	83	145	18	13	13
2	14	16	33	14	24	66	71	83	141	17	13	14
3	13	15	41	14	24	69	71	83	94	16	8.9	13
4	13	15	e41	14	25	71	71	84	69	16	13	13
5	13	14	e30	15	25	71	70	84	61	16	18	13
6	13	14	e26	14	24	71	70	84	54	16	14	13
7	13	20	e22	15	57	71	69	85	49	15	14	13
8	13	20	e22	14	71	70	68	86	45	15	14	13
9	13	17	21	14	74	70	68	87	43	15	14	13
10	12	16	20	14	75	70	67	87	40	15	18	13
11	12	16	19	14	74	69	66	88	39	14	16	e12
12	12	16	18	14	73	69	66	88	37	15	15	e12
13	13	15	18	14	73	68	66	69	36	15	14	e12
14	14	15	20	14	72	67	65	128	35	15	13	e11
15	13	15	18	17	72	67	65	182	34	14	13	11
16	13	15	17	26	71	66	65	179	33	14	13	12
17	13	18	17	27	71	66	65	177	32	14	13	12
18	13	17	16	61	71	67	66	175	30	14	13	12
19	14	16	16	60	71	67	67	172	29	13	13	12
20	14	15	15	67	69	68	69	171	28	14	12	12
21	13	15	14	65	68	68	70	168	27	14	13	12
22	13	17	15	43	67	69	72	166	26	13	13	12
23	12	30	15	66	66	69	72	163	25	13	13	12
24	13	47	15	68	65	69	73	161	24	13	13	13
25	14	27	15	62	64	70	74	160	22	14	13	12
26	15	22	15	40	40	71	75	159	22	13	12	12
27	14	19	15	33	35	71	77	157	21	13	13	12
28	14	19	16	29	44	70	82	155	20	13	13	12
29	14	21	15	28	---	70	82	156	20	13	13	12
30	15	53	15	27	---	70	83	153	19	13	13	12
31	14	---	15	26	---	70	---	149	---	13	13	---
TOTAL	414	591	648	944	1590	2135	2115	4022	1300	446	416.9	370
MEAN	13.4	19.7	20.9	30.5	56.8	68.9	70.5	130	43.3	14.4	13.4	12.3
MAX	15	53	53	68	75	71	83	182	145	18	18	14
MIN	12	14	14	14	24	65	65	69	19	13	8.9	11
AC-FT	821	1170	1290	1870	3150	4230	4200	7980	2580	885	827	734

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1971, BY WATER YEAR (WY)

MEAN	8.05	12.0	18.5	30.6	28.0	36.5	60.2	59.5	22.6	6.40	4.90	5.51
MAX	16.4	18.0	86.5	116	83.4	78.8	148	202	96.6	18.0	10.8	10.1
(WY)	1963	1971	1965	1970	1963	1967	1969	1967	1967	1967	1967	1967
MIN	3.73	4.81	5.38	4.28	9.60	11.1	15.4	9.80	3.21	1.79	1.81	2.37
(WY)	1962	1962	1962	1962	1964	1961	1961	1961	1960	1961	1964	1960

SUMMARY STATISTICS

WATER YEARS 1959 - 1971

ANNUAL MEAN	24.4	
HIGHEST ANNUAL MEAN	47.2	1969
LOWEST ANNUAL MEAN	6.89	1961
HIGHEST DAILY MEAN	903	Jan 31 1963
LOWEST DAILY MEAN	1.3	Jul 30 1961
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 29 1961
INSTANTANEOUS PEAK FLOW	1880	Feb 1 1963
INSTANTANEOUS PEAK STAGE	6.16	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	17650	
10 PERCENT EXCEEDS	57	
50 PERCENT EXCEEDS	11	
90 PERCENT EXCEEDS	2.7	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1999, BY WATER YEAR (WY)

MEAN	9.13	17.0	21.7	31.2	36.7	48.6	53.7	60.5	37.9	15.3	10.5	9.36
MAX	20.8	80.0	95.5	214	149	181	139	219	169	75.0	76.0	40.2
(WY)	1983	1984	1982	1997	1986	1986	1982	1983	1983	1986	1995	1995
MIN	3.09	1.57	1.25	6.42	8.10	8.35	8.52	7.40	3.96	2.67	2.01	2.40
(WY)	1972	1978	1978	1978	1994	1974	1980	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1972 - 1999

ANNUAL TOTAL	15207.3		14991.9	
ANNUAL MEAN	41.7		41.1	29.3
HIGHEST ANNUAL MEAN				74.5
LOWEST ANNUAL MEAN				6.90
HIGHEST DAILY MEAN	345	Apr 2	182	May 15
LOWEST DAILY MEAN	7.8	Sep 4	8.9	Aug 3
ANNUAL SEVEN-DAY MINIMUM	10	Aug 29	12	Sep 11
INSTANTANEOUS PEAK FLOW			190	May 14
INSTANTANEOUS PEAK STAGE			3.83	May 14
ANNUAL RUNOFF (AC-FT)	30160		29740	21230
10 PERCENT EXCEEDS	89		79	73
50 PERCENT EXCEEDS	20		20	12
90 PERCENT EXCEEDS	12		13	4.5

PYRAMID AND WINNEMUCCA LAKES BASIN
10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1975-95.

WATER TEMPERATURE: Water years 1975 to current year.

SEDIMENT DATA: Water years 1975-95.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1974 to current year.

INSTRUMENTATION.--Digital water-temperature recorder since October 1974.

REMARKS.—Interruption in the record was due to recording equipment damage caused by vandals. Water temperature is affected by regulation from Martis Creek Lake Dam (station 10339380). Unpublished chemical-quality, water-temperature, and sediment data prior to October 1974, available at the U.S. Geological Survey office in Carson City, NV

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 25.5°C, July 11, 12, 1993; minimum recorded, 0.0°C, February 16, 17, 1982, January 11-13, 16, 1995.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 20.0°C, July 11-16; minimum recorded, 0.0°C, February 10.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	12.5	8.0	7.0	3.0	2.5	3.5	2.5	2.0	1.0	2.0	1.5
2	14.0	12.5	8.0	7.0	3.5	3.0	3.5	2.5	2.0	1.5	2.0	1.5
3	13.5	12.0	8.0	7.0	3.5	2.5	3.5	2.5	2.0	1.5	2.0	1.5
4	13.0	11.5	8.0	7.0	3.0	2.5	3.5	2.5	2.5	1.5	2.0	1.5
5	12.5	11.0	7.5	6.5	3.0	2.5	3.5	2.5	2.5	1.5	2.0	1.5
6	12.0	10.5	6.5	6.0	3.5	2.5	3.5	2.5	2.0	2.0	2.5	2.0
7	12.5	10.5	6.5	5.5	3.5	2.5	3.5	2.5	2.0	1.0	2.5	2.0
8	12.5	10.5	6.0	5.0	3.5	2.5	3.5	2.5	1.0	.5	2.5	2.0
9	12.5	10.5	6.0	5.0	3.5	2.5	3.5	2.5	.5	.5	2.5	2.0
10	12.0	10.5	5.5	4.5	3.5	2.5	3.5	2.5	.5	.0	2.5	2.0
11	12.0	10.0	5.5	4.5	3.5	2.5	3.5	2.5	.5	.5	2.5	2.0
12	11.5	10.0	5.5	4.5	3.5	3.0	3.5	2.5	.5	.5	2.5	2.0
13	11.5	10.0	5.5	4.5	3.5	3.0	3.5	2.5	.5	.5	2.5	2.0
14	11.0	10.0	6.0	4.5	3.5	3.0	3.5	2.5	.5	.5	3.0	2.0
15	10.5	9.5	6.0	4.5	3.5	3.0	4.0	2.5	1.0	.5	3.0	2.5
16	10.0	9.0	5.5	4.5	4.0	3.0	3.5	2.5	1.0	.5	3.0	2.5
17	10.0	8.5	5.0	4.5	4.0	3.5	3.5	3.0	1.0	.5	3.5	3.0
18	9.5	8.0	5.5	4.0	4.5	3.5	3.0	2.5	1.5	1.0	---	---
19	9.0	8.0	5.0	4.5	4.0	3.5	2.5	2.0	1.5	1.0	---	---
20	9.5	8.0	5.0	4.0	4.0	3.5	2.0	1.5	1.0	1.0	---	---
21	9.5	7.5	5.5	4.5	4.0	3.0	1.5	1.0	1.0	1.0	---	---
22	9.5	8.0	5.5	4.5	4.0	3.0	2.0	1.0	1.0	1.0	---	---
23	10.0	8.0	5.0	4.0	3.5	2.5	1.5	1.0	1.5	1.0	---	---
24	9.0	8.5	4.5	3.5	3.5	3.0	1.0	1.0	1.5	1.0	---	---
25	8.5	8.0	4.5	3.5	3.5	3.0	1.0	1.0	2.0	1.0	---	---
26	8.5	7.5	4.5	3.0	3.5	2.5	1.5	1.0	2.0	1.5	---	---
27	9.0	7.5	4.0	3.5	3.5	2.5	1.5	1.0	2.0	1.5	---	---
28	8.5	8.0	4.5	3.5	3.5	2.5	2.0	1.0	2.5	1.5	---	---
29	8.5	7.5	4.0	3.0	3.5	2.5	2.0	1.0	---	---	---	---
30	8.0	7.0	3.5	3.0	3.5	2.5	2.0	1.0	---	---	---	---
31	8.0	7.0	---	---	3.5	2.5	1.5	1.0	---	---	---	---
MONTH	14.0	7.0	8.0	3.0	4.5	2.5	4.0	1.0	2.5	.0	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN
10339400 MARTIS CREEK NEAR TRUCKEE, CA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	9.5	6.5	15.0	12.5	19.0	17.0	19.5	17.0	17.0	15.0
2	---	---	9.0	8.0	13.5	11.0	19.5	17.0	19.5	17.0	17.0	15.0
3	---	---	9.0	8.0	11.0	10.0	18.5	16.5	18.5	13.5	16.5	14.5
4	---	---	8.5	8.0	10.0	9.5	17.5	16.0	19.5	13.0	16.0	14.0
5	---	---	9.0	8.0	10.5	9.0	18.0	15.5	19.5	17.5	16.5	14.0
6	---	---	11.0	8.0	12.0	10.0	18.5	16.0	18.5	17.0	17.0	14.5
7	---	---	11.0	9.0	12.0	10.5	18.5	16.0	19.0	16.5	17.0	14.5
8	---	---	10.5	9.0	12.5	10.5	18.5	16.5	18.0	16.5	17.0	14.5
9	---	---	10.0	8.5	13.5	11.0	19.0	16.5	18.5	16.5	16.5	15.0
10	---	---	10.5	8.5	13.5	12.0	19.5	17.0	17.5	16.5	16.5	14.5
11	---	---	10.0	8.0	14.5	12.0	20.0	17.5	18.0	16.5	16.5	14.5
12	---	---	12.0	8.0	15.0	12.5	20.0	17.5	18.5	16.0	16.5	14.5
13	---	---	12.0	8.5	15.5	13.0	20.0	18.0	18.5	16.0	16.5	14.5
14	---	---	11.5	9.0	16.0	13.5	20.0	17.5	18.5	16.0	16.5	14.0
15	9.5	7.0	10.5	9.5	15.5	14.5	20.0	17.5	18.0	16.0	16.5	14.0
16	10.0	8.0	10.0	9.0	16.5	14.5	20.0	17.5	18.0	15.5	16.5	14.0
17	12.0	8.0	13.0	9.0	16.5	14.5	19.5	17.0	18.5	16.0	16.0	14.5
18	11.5	9.0	12.5	10.0	16.0	15.0	19.0	17.0	18.5	16.0	15.5	14.5
19	11.0	8.0	12.5	10.0	16.5	15.0	19.0	17.0	18.5	16.0	16.5	14.5
20	10.5	8.5	12.5	10.0	17.0	15.0	18.5	17.0	18.5	16.0	16.5	14.5
21	10.0	8.5	11.5	10.0	17.0	15.5	19.0	16.5	18.5	16.0	16.5	14.0
22	8.5	6.5	12.0	9.5	17.5	15.5	19.0	16.5	18.5	16.0	16.5	14.5
23	7.5	7.0	13.0	11.0	18.0	15.5	19.0	16.5	18.5	16.5	16.5	14.5
24	8.0	7.0	13.5	11.5	18.5	16.5	18.5	16.5	19.0	16.5	16.0	14.5
25	9.0	7.0	13.0	11.5	18.0	16.0	18.5	16.5	18.5	16.5	16.5	14.0
26	9.0	7.5	15.0	12.0	18.0	16.0	19.0	16.5	18.0	16.5	16.0	14.0
27	9.0	8.5	16.0	13.0	17.5	16.0	19.5	17.0	18.0	16.5	15.5	13.5
28	8.5	7.5	17.0	13.0	17.5	16.0	19.5	17.0	18.5	16.0	15.0	13.5
29	7.5	7.0	13.0	11.5	18.5	16.0	19.0	17.0	18.5	16.5	15.0	13.0
30	7.0	6.5	14.0	12.0	19.0	16.5	19.0	17.0	18.0	16.0	15.0	13.0
31	---	---	14.5	11.0	---	---	19.0	17.0	17.5	15.5	---	---
MONTH	---	---	17.0	6.5	19.0	9.0	20.0	15.5	19.5	13.0	17.0	13.0

PYRAMID AND WINNEMUCCA LAKES BASIN
10340300 PROSSER CREEK RESERVOIR NEAR TRUCKEE, CA

LOCATION.--Lat 39°22'46", long 120°08'12", in NW 1/4 SW 1/4 sec.30, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, in control house on Prosser Creek Dam on Prosser Creek, 1.4 mi upstream from mouth, and 4.2 mi northeast of Truckee.

DRAINAGE AREA.--50.3 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."

REVISED RECORDS.--WDR CA-76-3: 1975. WDR CA-79-3: Drainage area.

GAGE.--Nonrecording gage read most days. 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 January 30, 1963. Usable capacity, 28,641 acre-ft between elevations 5,660.6 ft, top of inactive contents, and 5,741.2 ft, crest of spillway. Inactive contents, 1,201 acre-ft, includes 83 acre-ft dead contents below elevation 5,637.0 ft. Figures given represent total contents at 0800 hours. Reservoir is used for flood control, enhancement of fishery, and recreation. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

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, 33,719 acre-ft, May 19, 1996, elevation, 5,746.11 ft; minimum since reservoir first filled, 66 acre-ft, October 10-12, 1983, elevation, 5,635.75 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents observed, 28,520 acre-ft, July 3, elevation, 5,739.41 ft; minimum observed, 9,378 acre-ft, April 5, elevation, 5,702.34 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 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13343	9918	10160	9761	9642	9960	9682	14791	21612	28404	25234	20092
2	13106	9960	10108	9777	9592	10123	9622	15140	22020	28469	25074	19874
3	12855	9977	10032	9790	9592	10174	9555	15429	22560	28520	24914	19654
4	12607	9987	10036	9804	9602	10264	9464	15615	22915	28513	24754	19435
5	12365	10001	9936	9817	9615	10119	9378	15716	23155	28445	24597	19212
6	12172	10022	9828	9831	9629	9922	9421	15852	23496	28367	24440	18990
7	11974	10057	9706	9848	9682	9696	9471	16174	23894	28280	24283	18770
8	11833	10102	9706	9858	9855	9451	9497	16583	24191	28178	24126	18548
9	11678	10140	9706	9872	10029	9477	9497	16922	24270	28064	23971	18326
10	11533	10171	9629	9878	10188	9497	9503	17204	24257	27935	23856	18122
11	11379	10140	9682	9891	10160	9536	9510	17546	24257	27806	23727	17915
12	11237	10071	9727	9905	10091	9542	9516	17788	24296	27685	23573	17698
13	11087	9994	9764	9888	9981	9549	9562	18127	24506	27549	23407	17484
14	10939	9918	9804	9865	9872	9565	9669	18320	24908	27429	23243	17281
15	10837	9845	9838	9848	9737	9595	9831	18298	25367	27379	23073	17055
16	10736	9774	9872	9878	9602	9622	10022	18190	25841	27309	22902	16831
17	10626	9797	9898	9932	9655	9662	10289	18095	26278	27211	22727	16643
18	10520	9824	9925	10057	9744	9737	10670	18111	26693	27098	22554	16418
19	10420	9845	9964	10164	9800	9872	11192	18169	26979	26979	22394	16209
20	10314	9858	9994	10157	9831	9885	11888	18277	27197	26873	22220	16003
21	10209	9878	10008	10143	9872	9878	12558	18375	27365	26755	22038	15794
22	10133	9912	10026	10088	9878	9845	13043	18418	27556	26637	21867	15591
23	10057	9960	9974	10040	9878	9834	13233	18494	27764	26513	21710	15372
24	9981	10181	9912	9908	9872	9851	13326	18666	27964	26389	21528	15158
25	9929	10230	9858	9764	9878	9891	13481	19261	28136	26250	21356	14949
26	9865	10181	9804	9777	9862	10001	13793	19688	28221	26112	21189	14735
27	9851	10105	9750	9780	9858	10036	14174	19960	28258	25997	21022	14526
28	9851	10029	9696	9754	9859	10026	14417	20235	28280	25841	20851	14317
29	9865	9946	9696	9730	---	9981	14530	20794	28301	25691	20677	14103
30	9891	9939	9716	9703	---	9918	14530	21075	28345	25543	20507	13894
31	9905	---	9744	9676	---	9811	---	21362	---	25387	20304	---
MAX	13343	10230	10160	10164	10188	10264	14530	21362	28345	28520	25234	20092
MIN	9851	9774	9629	9676	9592	9451	9378	14791	21612	25387	20304	13894
a	5703.92	5704.02	5703.44	5703.24	5703.78	5703.64	5715.59	5728.58	5739.17	5734.93	5726.78	5714.17
b	-3671	+34	-195	-68	+183	-48	+4719	+6832	+6983	-2958	-5083	-6410

CAL YR 1998 MAX 29298 MIN 9438 b -131

WTR YR 1999 MAX 28520 MIN 9378 b +318

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

b Change in contents, in acre-feet.

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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 17,700 acre-ft, August 4, 1995, elevation, 6,949.51 ft; minimum, 4,750 acre-ft, November 10, 11, 1988, elevation, 6,929.39 ft.

EXTREMES FOR CURRENT YEAR.—Maximum contents, 16,800 acre-ft, June and July, elevation, 6,948.35 ft; maximum elevation, 6,948.35 ft, July 2, 3; minimum, 13,000 acre-ft, several days in April 15-18, minimum elevation, 6,942.70 ft, April 17.

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 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15500	14500	14500	14300	14500	14500	13400	13300	16600	16800	16600	15900
2	15400	14500	14500	14300	14500	14500	13300	13300	16600	16800	16600	15900
3	15400	14500	14600	14200	14400	14500	13300	13300	16500	16800	16600	15900
4	15300	14400	14500	14200	14400	14500	13300	13300	16400	16800	16500	15900
5	15300	14400	14600	14200	14400	14400	13400	13300	16400	16800	16500	15800
6	15200	14400	14500	14200	14500	14400	13300	e13400	16400	16800	16500	15800
7	15200	14400	14500	14200	14600	14300	13300	e13400	16300	16800	16500	15800
8	15100	14400	14500	14100	14700	14300	13300	e13500	16300	16800	16500	15700
9	15100	14400	14500	14100	14900	14300	13300	e13600	16300	16700	16500	15700
10	15100	14400	14500	14100	14900	14300	13200	e13600	16300	16800	16500	15700
11	15000	14300	14500	14100	14800	14200	13200	13700	16400	16800	16500	15700
12	15000	14300	14500	14100	14800	14200	13100	13800	16400	16800	16500	15700
13	15000	14300	14500	14100	14800	14100	13100	13900	16500	16800	16400	15600
14	14900	14300	14500	14100	14800	14100	13100	14000	16600	16800	16400	15600
15	14900	14300	14400	14100	14800	14000	13000	14000	16600	16800	16400	15600
16	14800	14300	14400	14100	14800	14000	13000	14100	16600	16800	16400	15600
17	14800	14300	14400	14100	14900	13900	13000	14200	16700	16800	16300	15500
18	14800	14200	14400	14200	14900	13900	13000	14300	16600	16800	16300	15500
19	14800	14200	14400	14300	14800	13800	13100	14400	16600	16800	16300	15500
20	14700	14200	14400	14400	14800	13800	13100	14500	16600	16800	16200	15500
21	14700	14200	e14300	14500	14800	13700	13200	14700	16600	16800	16200	15400
22	14700	14200	e14300	14500	14800	13700	13100	14900	16600	16800	16200	15400
23	14700	14400	14400	14600	14700	13600	13200	15100	16600	16700	16200	15400
24	14600	14400	14400	14500	14700	13600	13100	15400	16600	16700	16100	15400
25	14600	14300	14400	14500	14700	13600	13200	15700	16600	16700	16100	15300
26	14600	14300	14300	14500	14600	13500	13200	16000	16600	16700	16100	15300
27	14600	14300	14300	14500	14600	13500	13200	16300	16700	16700	16100	15300
28	14600	14300	14300	14500	14600	13400	13300	16500	16700	16700	16000	15300
29	14600	14400	14300	14500	---	13400	13200	16600	16700	16600	16000	15200
30	14500	14500	14300	14500	---	13400	13200	16600	16800	16600	16000	15200
31	14500	---	14300	14500	---	13400	---	16600	---	16600	15900	---
MAX	15500	14500	14600	14600	14900	14500	13400	16600	16800	16800	16600	15900
MIN	14500	14200	14300	14100	14400	13400	13000	13300	16300	16600	15900	15200
a	6944.95	6944.97	6944.61	6944.93	6945.06	6943.29	6943.05	6947.98	6948.25	6948.02	6947.03	6945.99
b	-1000	0	-200	+200	+100	-1200	-200	+3400	+200	-200	-700	-700

CAL YR 1998 MAX 17600 MIN 12200 b +2100

WTR YR 1999 MAX 16800 MIN 13000 b -300

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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.--Records good. Flow regulated by Independence Lake (station 10342900) since 1939. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 325 ft³/s, January 3, 1997, gage height, 6.17 ft; maximum gage height, 8.16 ft, April 16, 1993, backwater from snow and ice; no flow September 28 to November 10, 1905, June 1, 1906.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	17	16	15	15	34	33	35	133	47	13	15
2	26	17	16	15	15	34	33	36	134	47	13	14
3	26	17	16	14	15	34	33	35	130	46	13	14
4	26	17	16	14	15	34	33	34	123	46	13	14
5	26	17	16	14	15	34	33	35	118	46	12	14
6	26	17	15	14	15	34	33	36	116	46	12	14
7	26	17	15	14	15	34	33	37	108	46	12	14
8	26	16	15	14	15	34	33	37	97	40	12	14
9	21	15	15	14	15	34	33	37	83	33	11	14
10	18	15	15	14	15	34	33	37	75	25	10	14
11	17	15	15	14	15	34	33	38	75	23	14	14
12	17	15	15	14	15	34	33	40	75	21	16	13
13	17	15	15	14	15	34	33	39	81	17	16	13
14	17	15	15	14	15	34	33	38	86	17	16	13
15	17	15	15	14	15	34	33	38	88	17	15	13
16	17	15	15	15	15	34	33	38	100	17	15	13
17	17	15	15	15	15	34	33	39	109	17	15	13
18	17	15	15	15	15	34	33	40	109	17	15	13
19	17	15	15	15	25	34	34	41	106	17	15	13
20	17	15	15	15	34	34	34	41	105	17	15	13
21	17	15	15	15	34	34	34	41	105	17	15	13
22	17	15	15	15	34	33	34	42	104	17	15	13
23	17	16	15	15	34	33	34	42	103	16	15	13
24	17	16	15	15	34	33	34	44	87	16	15	13
25	17	16	15	15	35	33	35	45	63	16	15	13
26	17	15	15	15	34	33	36	44	51	16	15	13
27	17	15	15	15	34	33	35	43	47	16	15	13
28	17	15	15	15	34	33	35	79	47	15	15	13
29	17	15	15	15	---	33	34	133	47	15	15	12
30	17	16	15	15	---	33	34	134	47	15	15	12
31	17	---	15	15	---	33	---	134	---	14	15	---
TOTAL	604	469	470	452	602	1044	1007	1532	2752	775	438	400
MEAN	19.5	15.6	15.2	14.6	21.5	33.7	33.6	49.4	91.7	25.0	14.1	13.3
MAX	26	17	16	15	35	34	36	134	134	47	16	15
MIN	17	15	15	14	15	33	33	34	47	14	10	12
AC-FT	1200	930	932	897	1190	2070	2000	3040	5460	1540	869	793

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1999, BY WATER YEAR (WY)

	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	1993	1994	1995	1996	1997	1998	1999
MEAN	15.9	21.6	12.4	13.5	12.1	15.6	19.5	44.1	57.1	27.5	20.3	21.2																				
MAX	45.8	97.6	58.2	161	58.0	94.5	72.9	112	188	89.2	114	133																				
(WY)	1976	1984	1982	1997	1986	1996	1986	1982	1983	1983	1988	1973																				
MIN	.47	1.36	.70	1.04	1.07	1.45	1.50	1.51	2.09	1.78	2.05	.58																				
(WY)	1980	1989	1993	1993	1974	1977	1977	1977	1977	1977	1976	1979																				

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1968 - 1999

ANNUAL TOTAL	10525	10545	
ANNUAL MEAN	28.8	28.9	23.4
HIGHEST ANNUAL MEAN			46.7
LOWEST ANNUAL MEAN			7.63
HIGHEST DAILY MEAN	93	134	295
LOWEST DAILY MEAN	13	10	.02
ANNUAL SEVEN-DAY MINIMUM	14	12	.02
INSTANTANEOUS PEAK FLOW		136	325
INSTANTANEOUS PEAK STAGE		4.31	8.16
ANNUAL RUNOFF (AC-FT)	20880	20920	16950
10 PERCENT EXCEEDS	79	46	63
50 PERCENT EXCEEDS	17	17	11
90 PERCENT EXCEEDS	14	14	2.1

PYRAMID AND WINNEMUCCA LAKES
10343500 SAGEHEN CREEK NEAR TRUCKEE, CA
(Hydrologic Benchmark Station)

LOCATION.--Lat 39°25'54", long 120°14'13", in NE 1/4 NE 1/4 sec.7, T.18 N., R.16 E., Nevada County, Hydrologic Unit 16050102, on left bank, 2.2 mi upstream from bridge on State Highway 89, and 7.5 mi north of Truckee.

DRAINAGE AREA.--10.5 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 December 2, 1953, nonrecording gage at site 100 ft upstream at different datum.

REMARKS.--Records good including estimated periods. No storage or diversion upstream from station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,230 ft³/s, January 1, 1997, gage height, 5.20 ft, from poor high-water mark on gage house. Rating curve extended above 160 ft³/s on basis of slope-area measurement at gage height 4.28 ft; minimum daily, 1.0 ft³/s, September 13, 1960.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 50 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 24	2015	273	3.78	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	7.1	13	4.7	6.4	14	11	54	94	23	5.6	4.2
2	4.4	5.6	10	4.7	6.3	11	11	55	92	22	5.5	4.2
3	4.4	5.3	14	4.7	6.2	12	10	47	78	20	5.4	4.2
4	4.4	5.0	10	4.8	6.3	11	10	46	68	18	5.3	4.1
5	4.4	4.9	e9.0	4.8	6.2	9.7	9.7	54	66	17	5.2	4.1
6	4.4	4.9	8.1	4.8	6.0	9.1	9.3	72	65	15	6.1	3.9
7	4.4	5.4	8.3	4.7	8.6	8.7	8.9	80	57	14	5.7	3.8
8	4.3	5.3	7.4	4.5	8.3	8.3	8.7	76	52	14	5.6	3.8
9	4.2	5.0	6.8	4.5	8.6	8.1	8.3	71	50	13	6.8	4.6
10	4.3	5.0	6.6	4.4	8.2	7.8	8.3	71	47	12	9.3	4.8
11	4.2	5.0	6.3	4.5	8.6	7.5	8.4	87	46	12	6.5	4.3
12	4.0	5.0	6.0	4.4	6.8	7.4	9.4	103	45	11	5.8	3.9
13	3.9	5.2	6.0	4.3	6.8	7.6	12	97	44	11	5.4	3.8
14	4.0	5.4	6.0	4.5	6.6	7.8	13	81	44	11	5.2	3.8
15	4.1	5.6	5.8	4.9	6.4	7.5	15	73	44	10	5.1	3.7
16	4.2	5.7	5.6	7.0	6.5	7.5	17	72	43	9.5	4.9	3.6
17	4.1	5.9	5.6	6.8	9.7	8.0	22	81	42	8.8	4.8	3.6
18	4.2	5.4	5.5	17	8.4	9.2	28	90	40	8.5	4.7	3.8
19	4.2	5.0	5.5	10	7.5	9.9	38	92	39	8.1	4.6	3.9
20	4.1	5.1	5.5	10	7.3	9.7	44	94	37	7.7	4.5	3.7
21	4.1	5.3	e5.7	9.3	6.8	9.1	47	97	36	7.4	4.4	3.7
22	4.1	6.6	e5.5	8.3	6.6	9.2	41	102	34	7.2	4.2	3.6
23	4.1	18	e5.4	8.1	6.5	9.8	33	108	35	6.9	4.3	3.7
24	6.0	12	e5.2	7.7	6.5	10	36	138	34	6.9	4.3	3.8
25	6.1	8.5	5.1	7.3	6.5	12	49	169	32	6.8	4.2	3.7
26	5.5	7.3	5.0	7.0	6.3	15	58	154	29	6.6	4.3	3.6
27	5.1	6.8	5.0	6.7	6.3	15	54	145	27	6.4	4.5	3.6
28	5.1	6.6	5.0	e7.3	8.6	14	44	136	26	6.1	4.3	3.5
29	5.3	8.7	4.9	e7.0	---	14	35	114	25	6.0	4.1	3.5
30	5.3	25	4.8	6.6	---	13	39	106	24	5.8	4.1	3.5
31	5.1	---	4.8	6.6	---	12	---	99	---	5.8	4.2	---
TOTAL	140.6	211.6	207.4	201.9	199.8	314.9	738.0	2864	1395	337.5	158.9	116.0
MEAN	4.54	7.05	6.69	6.51	7.14	10.2	24.6	92.4	46.5	10.9	5.13	3.87
MAX	6.1	25	14	17	9.7	15	58	169	94	23	9.3	4.8
MIN	3.9	4.9	4.8	4.3	6.0	7.4	8.3	46	24	5.8	4.1	3.5
AC-FT	279	420	411	400	396	625	1460	5680	2770	669	315	230

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)

MEAN	3.48	5.15	7.31	8.78	8.31	10.8	24.6	45.0	26.4	7.50	3.20	2.78
MAX	11.9	27.7	44.0	87.3	51.0	50.1	51.6	117	142	37.4	11.8	7.56
(WY)	1963	1984	1965	1997	1963	1986	1986	1969	1983	1983	1983	1983
MIN	1.46	1.83	2.03	1.81	2.54	2.74	6.13	3.45	1.82	1.36	1.20	1.11
(WY)	1995	1993	1977	1962	1994	1962	1975	1988	1992	1994	1994	1960

PYRAMID AND WINNEMUCCA LAKES

10343500 SAGEHEN CREEK NEAR TRUCKEE, CA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1954 - 1999
ANNUAL TOTAL	6329.2	6885.6	
ANNUAL MEAN	17.3	18.9	12.8
HIGHEST ANNUAL MEAN			30.0 1983
LOWEST ANNUAL MEAN			2.65 1977
HIGHEST DAILY MEAN	89 Jun 7	169 May 25	800 Jan 1 1997
LOWEST DAILY MEAN	3.9 Aug 30	3.5 Sep 28	1.0 Sep 13 1960
ANNUAL SEVEN-DAY MINIMUM	4.0 Aug 29	3.6 Sep 24	1.1 Sep 9 1960
INSTANTANEOUS PEAK FLOW		273 May 24	1230 Jan 1 1997
INSTANTANEOUS PEAK STAGE		3.78 May 24	5.20 Jan 1 1997
ANNUAL RUNOFF (AC-FT)	12550	13660	9260
10 PERCENT EXCEEDS	55	54	34
50 PERCENT EXCEEDS	6.1	6.9	4.5
90 PERCENT EXCEEDS	4.3	4.2	1.9

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 August 1, 1969. Total capacity, 226,500 acre-ft at elevation 5,948.7 ft, spillway crest. Inactive contents, 5,010 acre-ft, includes 660 acre-ft dead contents below elevation 5,798.3 ft. Figures given, including extremes, represent total contents at 0800 hours. Reservoir is used for flood control, municipal water supply, enhancement of fishery, and recreation. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

COOPERATION.--Records and capacity table were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800 hours) FOR PERIOD OF RECORD.—Maximum contents, 254,493 acre-ft, June 1, 1983, elevation, 5,956.55 ft; minimum since reservoir first filled, 30,772 acre-ft, January 31, February 1, 1978, elevation, 5,853.60 ft.

EXTREMES (at 0800 hours) FOR CURRENT YEAR.—Maximum contents observed, 224,332 acre-ft, June 24, elevation, 5,948.07 ft; minimum observed, 200,752 acre-ft, September 30, elevation, 5,940.97 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated July 1971)

5,850	27,915	5,880	60,185	5,910	115,865	5,940	197,630
5,860	36,470	5,890	76,008	5,920	140,141	5,950	231,005
5,870	47,090	5,900	94,535	5,930	167,355	5,960	267,386

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205998	204728	206194	204111	204630	204435	204468	208256	220307	223373	210397	204858
2	205868	204760	206063	204078	204630	204500	204338	208454	220816	223168	210133	204663
3	205770	204760	205933	204143	204760	204695	204305	208651	221292	222894	209968	204468
4	205704	204695	205900	204143	204890	204858	204078	208815	221428	222485	209770	204273
5	205639	204695	205542	204143	204793	204760	203916	208914	221258	222144	209638	204111
6	205574	204663	205248	204176	204695	204630	204078	209144	221122	221837	209473	203948
7	205509	204706	204858	204241	205248	204468	203981	209572	221054	221428	209243	203786
8	205476	204749	204858	204241	205248	204305	203916	210265	220918	220952	209012	203624
9	205411	204793	204793	204176	205737	204500	203786	210794	220715	220477	208881	203462
10	205411	204793	204728	204176	205607	204370	203657	211224	220443	219968	208881	203300
11	205346	204760	204695	204241	205183	204370	203657	211655	220070	219460	208749	203106
12	205281	204728	204695	204273	205118	204208	203430	211887	220002	218953	208552	202944
13	205281	204695	204728	204208	205086	204305	203333	212617	220138	218446	208388	202783
14	205216	204695	204695	204208	205086	204403	203365	212983	220545	217906	208191	202589
15	205216	204695	204500	204305	204955	204435	203527	213016	221054	217367	207961	202395
16	205151	204695	204500	204533	204858	204435	203819	212950	221531	216728	207797	202266
17	205053	204858	204468	204663	205053	204500	204241	212817	222007	216056	207633	202137
18	204988	204825	204468	204955	204858	204565	204923	212883	222485	215386	207502	202040
19	204955	204793	204468	205346	204630	204598	205835	213016	222894	214784	207305	201911
20	204858	204825	204468	205900	204403	204663	207044	213249	223202	214216	207142	201750
21	204793	204890	204273	205868	204435	204728	208125	213516	223510	213716	206880	201653
22	204760	204858	204241	205476	204176	204663	208716	213649	223749	213249	206749	201524
23	204695	204955	204111	205574	204176	204695	208585	213949	223989	212783	206618	201428
24	204695	205379	204111	204825	204143	204760	208322	214450	224332	212385	206422	201299
25	204760	205607	204078	204468	204241	204760	208125	215922	224263	212019	206226	201235
26	204793	205639	204111	204370	204241	204825	208158	216862	224195	211688	206063	201202
27	204760	205574	204078	204273	204208	204825	208289	217704	224023	211456	205933	201074
28	204793	205607	204046	204305	204208	204793	208388	218513	223818	211158	205704	200913
29	204728	205607	204046	204370	---	204760	208322	219257	223681	210893	205542	200784
30	204760	205835	204143	204533	---	204695	208322	219697	223544	210695	205411	200752
31	204695	---	204176	204633	---	204663	---	219968	---	210529	205086	---
MAX	205998	205835	206194	205900	205737	204858	208716	219968	224332	223373	210397	204858
MIN	204695	204663	204046	204078	204143	204208	203333	208256	220002	210529	205086	200752
a	5942.19	5942.54	5942.03	5942.18	5942.04	5942.18	5943.30	5946.79	5947.84	5943.97	5942.31	5940.97
b	-1368	+1140	-1659	+457	-425	+455	+3659	+11646	+3576	-13015	-5443	-4334

CAL YR 1998 MAX 235176 MIN 183229 b +20947
WTR YR 1999 MAX 224332 MIN 200752 b -5311

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

PYRAMID AND WINNEMUCCA LAKES BASIN

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 Benchmark). June 1903 to October 1910, nonrecording gages at different sites and datums.

REMARKS.--Records good. Flow regulated by Independence Lake (station 10342900) since 1939 and Stampede Reservoir (station 10344300) since 1969. There is one transbasin diversion to Sierra Valley. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s, February 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, September 16-21, 1969.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	50	171	44	46	146	379	628	753	346	99	103
2	69	48	205	44	50	164	334	629	710	346	100	102
3	65	46	208	44	45	171	331	570	713	346	101	102
4	64	47	232	44	77	217	330	524	712	346	101	102
5	55	49	258	44	104	269	294	523	710	346	101	102
6	48	49	245	44	105	266	259	525	710	345	102	102
7	48	49	172	44	154	263	258	524	709	344	101	102
8	48	50	88	44	232	221	257	522	708	344	102	102
9	48	50	87	44	260	182	254	519	707	344	101	102
10	48	49	84	44	278	179	254	517	706	344	106	102
11	48	50	85	44	221	179	257	518	643	344	104	102
12	48	50	85	44	133	152	262	579	550	344	103	102
13	48	50	85	44	133	133	269	673	446	342	100	102
14	47	50	85	44	132	137	276	707	399	341	100	102
15	47	50	85	45	131	138	281	705	398	341	100	102
16	47	50	85	46	133	141	289	703	398	339	100	88
17	47	50	85	45	184	160	299	702	398	339	100	77
18	47	48	85	71	234	206	305	702	396	339	100	77
19	47	47	85	104	233	242	311	703	394	318	101	77
20	47	47	85	149	233	252	397	703	394	265	102	77
21	47	46	85	268	232	249	608	760	394	248	103	77
22	47	47	77	296	173	249	798	803	394	246	103	77
23	47	50	73	412	115	255	831	803	397	217	102	77
24	48	51	70	387	115	287	830	772	397	195	103	62
25	50	67	70	221	115	338	835	769	396	195	103	48
26	50	83	70	109	115	428	840	803	397	168	103	48
27	50	83	68	69	115	464	803	800	396	147	104	48
28	50	83	56	e46	117	455	738	797	369	138	103	48
29	50	84	46	e46	---	453	670	797	349	112	103	47
30	50	109	44	e46	---	449	626	796	349	102	103	47
31	49	---	44	46	---	443	---	796	---	99	103	---
TOTAL	1579	1682	3303	3022	4215	7888	13475	20872	15392	8630	3157	2506
MEAN	50.9	56.1	107	97.5	151	254	449	673	513	278	102	83.5
MAX	75	109	258	412	278	464	840	803	753	346	106	103
MIN	47	46	44	44	45	133	254	517	349	99	99	47
AC-FT	3130	3340	6550	5990	8360	15650	26730	41400	30530	17120	6260	4970

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1968, BY WATER YEAR (WY)

	MEAN	76.0	83.5	123	87.3	131	170	399	543	310	78.1	29.8	25.8
MAX	394	630	725	264	835	374	855	1304	1045	433	180	76.5	
(WY)	1963	1951	1965	1956	1963	1967	1952	1952	1967	1967	1940	1959	
MIN	13.5	13.0	11.6	9.45	22.0	39.0	106	171	45.7	6.06	4.45	5.93	
(WY)	1962	1940	1960	1962	1948	1948	1961	1961	1954	1949	1949	1948	

SUMMARY STATISTICS

WATER YEARS 1939 - 1968

ANNUAL MEAN	170	
HIGHEST ANNUAL MEAN	321	1952
LOWEST ANNUAL MEAN	58.9	1961
HIGHEST DAILY MEAN	8810	Feb 1 1963
LOWEST DAILY MEAN	3.0	Nov 30 1954
ANNUAL SEVEN-DAY MINIMUM	4.0	Jul 17 1949
INSTANTANEOUS PEAK FLOW	13300	Feb 1 1963
INSTANTANEOUS PEAK STAGE	9.00	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	123200	
10 PERCENT EXCEEDS	454	
50 PERCENT EXCEEDS	70	
90 PERCENT EXCEEDS	13	

PYRAMID AND WINNEMUCCA LAKES BASIN

10344400 LITTLE TRUCKEE RIVER ABOVE BOCA RESERVOIR, NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1999, BY WATER YEAR (WY)

MEAN	75.0	42.7	74.7	108	84.6	140	310	559	348	177	118	56.9
MAX	503	132	711	1089	400	418	923	1371	1733	1301	573	359
(WY)	1974	1975	1984	1997	1996	1996	1986	1969	1983	1983	1975	1971
MIN	.56	.75	2.85	16.7	10.6	13.8	25.6	30.6	28.1	24.1	1.65	.47
(WY)	1970	1970	1970	1980	1970	1970	1970	1988	1988	1981	1969	1969

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1969 - 1999	
ANNUAL TOTAL	76903		85721			
ANNUAL MEAN	211		235		175	
HIGHEST ANNUAL MEAN					427	
LOWEST ANNUAL MEAN					53.4	
HIGHEST DAILY MEAN	881	Jun 14	840	Apr 26	2590	Jan 12 1997
LOWEST DAILY MEAN	31	Jan 1	44	Dec 30	.30	Sep 16 1969
ANNUAL SEVEN-DAY MINIMUM	31	Jan 3	44	Dec 30	.31	Sep 15 1969
INSTANTANEOUS PEAK FLOW			844	Apr 22	13300	Feb 1 1963
INSTANTANEOUS PEAK STAGE			2.45	Apr 22	9.00	Feb 1 1963
ANNUAL RUNOFF (AC-FT)	152500		170000		126800	
10 PERCENT EXCEEDS	535		671		497	
50 PERCENT EXCEEDS	91		115		47	
90 PERCENT EXCEEDS	33		47		27	

PYRAMID AND WINNEMUCCA LAKES BASIN
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 most days. Datum of gage is sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill, rock-faced dam. Storage began December 8, 1938. Usable capacity, 40,868 acre-ft between elevations 5,521 ft, outlet sill, and 5,605 ft, top of spillway gates. Elevation of spillway (gate open) is 5,589.01 ft. Dead contents, 241 acre-ft. Records, including extremes, represent usable contents at 0800 hours. Water is used for irrigation in the State of Nevada and for power development. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

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, December 23, 1955, elevation, 5,605.55 ft; minimum, 37 acre-ft, March 4-9, 1955, elevation, 5,521.65 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.--Maximum contents observed, 39,984 acre-ft, June 30, elevation, 5,604.90 ft; minimum, 29,437 acre-ft, January 18, elevation, 5,592.36 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 1998 TO SEPTEMBER 1999
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37623	33707	31568	32789	32815	33000	32370	34970	35990	39955	38036	35469
2	37492	33662	31682	32780	32859	33061	32353	35278	36220	39906	37942	35360
3	37351	33609	31789	32780	32842	33053	32283	35551	36811	39849	37839	35251
4	37202	33556	31962	32772	32886	32842	32179	35661	37389	39781	37745	35115
5	37062	33511	32083	32763	32886	32719	32101	35716	37660	39723	37651	34988
6	36886	33432	32240	32763	32929	32772	32127	35853	37632	39791	37613	34862
7	36719	33414	32300	32553	33123	32780	32083	36009	37604	39810	37585	34735
8	36534	33414	32405	32257	33114	32772	32023	36119	37707	39656	37548	34609
9	36377	33405	32440	31902	33273	32833	31971	36229	37876	39262	37520	34475
10	36192	33396	32483	31629	32737	32780	31884	36340	38046	38956	37538	34376
11	36018	33405	32509	31299	32222	32745	31833	36432	38216	38661	37529	34286
12	35844	33388	32544	30970	32405	32684	31772	36432	38367	38414	37510	34197
13	35679	33379	32579	30634	32448	32728	31789	36395	38519	38225	37492	34107
14	35506	33379	32605	30326	32483	32798	31850	36312	38680	38084	37398	34045
15	35342	33370	32640	30003	32509	32859	31945	36266	38842	37923	37314	33973
16	35215	33352	32675	29749	32536	32947	32075	36211	39042	37764	37211	33911
17	35088	33326	32710	29495	32632	33061	32257	36156	39243	37595	37090	33849
18	34970	33246	32745	29437	32632	33096	32492	36101	39444	37604	36979	33769
19	34862	33167	32780	29858	32702	33079	32772	36036	39473	37707	36858	33689
20	34744	33009	32824	30207	32719	33053	33105	35981	39512	37792	36746	33609
21	34618	32807	32859	30668	32807	32982	33370	35908	39540	37801	36635	33529
22	34501	32597	32886	31273	32824	32921	33229	35771	39569	37886	36524	33449
23	34394	32396	32894	31971	32649	32894	33317	35670	39608	37961	36432	33379
24	34286	32292	32894	32144	32710	32903	33388	35579	39656	38018	36321	33299
25	34197	32092	32903	32353	32798	32956	33467	35369	39665	38074	36211	33167
26	34098	31953	32912	32500	32868	32991	33556	35278	39694	38178	36110	33035
27	33982	31807	32921	32579	32877	32965	33671	35297	39723	38235	36009	32903
28	33875	31699	32912	32632	32886	32903	34027	35306	39887	38282	35908	32754
29	33849	31577	32877	32684	---	32815	34385	35460	39935	38291	35807	32614
30	33778	31533	32833	32737	---	32710	34385	35643	39984	38225	35697	32483
31	33724	---	32798	32789	---	32553	---	35816	---	38131	35579	---
MAX	37623	33707	32921	32789	33273	33096	34385	36432	39984	39955	38036	35469
MIN	33724	31533	31568	29437	32222	32553	31772	34970	35990	37595	35579	32483
a	5597.34	5594.81	5596.29	5596.28	5596.39	5596.01	5598.08	5599.66	5604.09	5602.15	5599.40	5595.93
b	-4011	-2191	+1265	-9	+97	-333	+1832	+1431	+4168	-1853	-2552	-3096

CAL YR 1998 MAX 39704 MIN 18491 b +14340
WTR YR 1999 MAX 39984 MIN 29437 b -5252

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. January 1, 1911, to September 30, 1915, nonrecording gage at site 650 ft downstream at different datum. January 1939 to September 1957, records computed from daily log of rated settings of needle valve in dam, and from computed flow over spillway.

REMARKS.--Records good. Flow regulated by Boca Reservoir (station 10344490) since 1938, Independence Lake (station 10342900) since 1939, and Stampede Reservoir (station 10344300) since 1969. There is one transmountain diversion to Sierra Valley of about 6,000 acre-ft per year. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s, December 24, 1955, from records of Washoe County Water Conservation District; no flow for many days in many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	70	156	48	30	185	513	551	673	369	145	151
2	133	70	156	48	30	245	442	552	474	368	145	150
3	133	70	156	48	29	356	442	553	428	368	144	158
4	133	70	179	47	64	395	442	553	492	368	144	162
5	133	79	203	47	85	351	381	527	685	335	124	162
6	133	72	203	110	86	326	343	512	723	313	112	162
7	133	52	118	184	169	325	343	513	693	381	112	162
8	133	52	68	215	263	275	343	514	614	492	112	162
9	133	52	68	214	481	247	342	515	614	518	108	157
10	133	52	68	213	587	247	342	516	614	493	105	147
11	133	52	68	212	320	247	341	543	584	477	105	143
12	132	52	68	212	85	190	341	620	451	451	105	142
13	132	52	68	212	85	158	341	721	334	424	123	136
14	131	52	68	212	85	158	341	764	292	413	134	133
15	113	52	68	212	85	158	341	764	292	412	140	133
16	102	68	68	194	85	158	342	764	292	411	152	120
17	102	86	68	154	134	208	343	766	292	360	152	113
18	102	86	68	71	162	302	343	766	344	300	152	113
19	102	106	68	1.0	162	354	344	767	375	268	152	113
20	102	158	68	1.2	162	363	439	767	375	244	152	113
21	102	158	68	1.0	163	364	754	840	375	213	152	113
22	101	158	68	1.0	163	363	913	883	375	201	151	112
23	101	158	68	259	129	363	913	882	375	179	151	112
24	102	158	68	344	112	387	914	882	375	166	151	112
25	102	157	68	158	112	456	914	882	375	151	151	112
26	101	156	68	87	129	581	916	845	375	127	151	112
27	101	156	68	48	139	631	805	817	342	119	151	112
28	85	156	68	31	140	631	637	777	320	119	151	112
29	86	156	67	31	---	630	581	715	320	128	151	112
30	79	156	67	30	---	630	551	716	348	145	151	112
31	70	---	55	30	---	630	---	717	---	145	151	---
TOTAL	3511	2972	2788	3675.2	4276	10914	15347	21504	13221	9458	4280	3953
MEAN	113	99.1	89.9	119	153	352	512	694	441	305	138	132
MAX	133	158	203	344	587	631	916	883	723	518	152	162
MIN	70	52	55	1.0	29	158	341	512	292	119	105	112
AC-FT	6960	5890	5530	7290	8480	21650	30440	42650	26220	18760	8490	7840

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1915, BY WATER YEAR (WY)

	1911	1912	1913	1914	1915
MEAN	22.8	38.1	29.2	83.4	75.5
MAX	34.2	58.4	39.3	283	173
(WY)	1915	1913	1914	1914	1914
MIN	14.1	28.4	23.2	20.5	28.4
(WY)	1914	1915	1912	1913	1912

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

PYRAMID AND WINNEMUCCA LAKES BASIN
10344500 LITTLE TRUCKEE RIVER BELOW BOCA DAM, NEAR TRUCKEE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1969, BY WATER YEAR (WY)

MEAN	89.7	106	144	156	160	132	264	426	315	159	146	120
MAX	303	611	856	649	606	442	808	1647	974	389	408	414
(WY)	1968	1951	1951	1965	1963	1967	1952	1952	1967	1967	1958	1952
MIN	.000	.12	.20	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1940	1967	1960	1939	1939	1939	1939	1939	1939	1939	1939	1939

SUMMARY STATISTICS

WATER YEARS 1939 - 1969

ANNUAL MEAN	190
HIGHEST ANNUAL MEAN	435
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 - 1999, BY WATER YEAR (WY)

MEAN	107	74.5	91.9	121	92.3	133	283	500	320	211	158	109
MAX	441	327	568	1296	433	522	975	1148	1788	1131	585	418
(WY)	1972	1984	1984	1997	1997	1996	1986	1985	1983	1983	1975	1971
MIN	.000	.020	.11	.001	1.60	.13	.39	.31	2.63	.75	13.6	.55
(WY)	1995	1991	1978	1995	1995	1995	1988	1988	1977	1981	1984	1970

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1970 - 1999

ANNUAL TOTAL	76256.18	95899.2	
ANNUAL MEAN	209	263	184
HIGHEST ANNUAL MEAN			470
LOWEST ANNUAL MEAN			55.6
HIGHEST DAILY MEAN	1270	916	2530
LOWEST DAILY MEAN	.50	1.0	.00
ANNUAL SEVEN-DAY MINIMUM	.60	30	.00
INSTANTANEOUS PEAK FLOW		920	2720
INSTANTANEOUS PEAK STAGE		4.20	6.14
ANNUAL RUNOFF (AC-FT)	151300	190200	133200
10 PERCENT EXCEEDS	518	624	486
50 PERCENT EXCEEDS	111	158	85
90 PERCENT EXCEEDS	.73	68	.54

PYRAMID AND WINNEMUCCA LAKES BASIN

10346000 TRUCKEE RIVER AT FARAD, CA

LOCATION.--Lat 39°25'41", long 120°01'59", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T.18 N., R.17 E., Nevada County, Hydrologic Unit 16050102, on left bank, 0.5 mi upstream from Mystic Canyon, 0.7 mi downstream from Farad Powerplant, 2.5 mi north of Floriston, 3.5 mi upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March to October 1890 (monthly discharge only), September 1899 to current year. Monthly discharge only for January 1944 to July 1957, published in WSP 1734. Published as "near Boca," March to October 1890, "at or near Nevada-California State Line," September 1899 to August 1912, and as "at Iceland," August 1912 to December 1937.

CHEMICAL DATA: Water years 1951-61, 1964-81. Published as Truckee River at Floriston (station 10345900) January 1964 to September 1971.

BIOLOGICAL DATA: Water years 1975-77.

SPECIFIC CONDUCTANCE: Water years 1964-80, 1993-98.

WATER TEMPERATURE: Water years 1964-81, 1993-98.

SUSPENDED SEDIMENT: Water years 1974, 1978.

REVISED RECORDS.--WSP 1714: Drainage area, WDR CA-88-3: 1906-07 (monthly runoff).

GAGE.--Water-stage recorder. Datum of gage is 5,153.21 ft above sea level (U.S. Bureau of Reclamation benchmark). See WSP 2127 for history of changes prior to August 26, 1957.

REMARKS.--Records good except estimated periods, which are fair. Flow regulated by Lake Tahoe and Donner, Martis Creek, and Independence Lakes, and Prosser Creek, Stampede, and Boca Reservoirs (stations 10337000, 10338400, 10339380, 10342900, 10340300, 10344300, and 10344490), and by several powerplants. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s, November 21, 1950, gage height, 14.5 ft, present datum, from floodmarks, from slope-area measurement of peak flow; minimum, 37 ft³/s, September 15, 1933.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	754	430	719	413	844	2550	1390	2270	3150	1420	625	633
2	741	419	731	389	834	2620	1230	2390	2830	1400	624	634
3	737	411	843	399	817	2830	1220	2300	2460	1350	620	633
4	734	396	897	397	827	2870	1190	2230	2300	1280	617	637
5	721	425	949	396	687	2760	1100	2200	2390	1200	654	634
6	727	459	951	389	674	2190	1010	2280	2520	1130	654	631
7	713	442	852	404	950	2210	989	2430	2470	1100	654	635
8	699	438	811	393	1440	2080	1090	2500	2340	1080	649	640
9	698	418	801	384	2120	1990	1140	2450	2380	1070	646	641
10	692	418	774	383	2740	1960	1150	2410	2370	1020	662	641
11	688	460	769	382	2560	1950	1150	2550	2370	1000	617	636
12	686	448	767	386	2450	1780	1170	2880	2210	967	606	635
13	684	447	765	396	2430	1490	1220	2980	2070	929	610	637
14	676	445	766	394	2410	1510	1280	2880	2040	892	616	628
15	611	441	760	404	2390	1480	1310	2800	2080	837	609	626
16	587	429	756	447	2360	1270	1370	2780	2090	810	617	618
17	531	441	754	405	2490	1260	1560	2840	2090	860	635	610
18	543	427	752	542	2500	1400	1690	2950	2140	809	636	613
19	526	430	751	531	2470	1540	1910	2980	2180	767	633	615
20	525	439	737	566	2450	1570	2220	3040	2120	733	630	613
21	483	435	e725	802	2470	1550	2610	3140	2090	697	629	594
22	471	460	e750	932	2440	1540	2730	3330	1980	678	629	603
23	468	519	e755	1310	2360	1520	2630	3440	1940	696	632	619
24	476	621	755	1720	2290	1380	2590	3640	1920	678	629	603
25	488	548	754	1450	2290	1470	2680	3960	1820	662	625	591
26	468	530	751	1290	2270	1720	2850	4190	1700	639	627	588
27	447	516	749	1220	2280	1790	2750	4160	1600	623	639	584
28	421	512	710	1110	2350	1750	2500	3850	1540	620	632	587
29	421	521	521	876	---	1720	2310	3500	1490	618	625	582
30	414	723	502	864	---	1690	2200	3310	1470	631	624	573
31	398	---	490	856	---	1580	---	3270	---	629	630	---
TOTAL	18228	14048	23367	20830	55193	57020	52239	91930	64150	27825	19535	18514
MEAN	588	468	754	672	1971	1839	1741	2965	2138	898	630	617
MAX	754	723	951	1720	2740	2870	2850	4190	3150	1420	662	641
MIN	398	396	490	382	674	1260	989	2200	1470	618	606	573
AC-FT	36160	27860	46350	41320	109500	113100	103600	182300	127200	55190	38750	36720

e Estimated.

PYRAMID AND WINNEMUCCA LAKES BASIN
10346000 TRUCKEE RIVER AT FARAD, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

MEAN	384	422	539	605	669	811	1286	1748	1286	662	512	466
MAX	982	2469	3596	6115	3254	4073	3887	5674	5214	2921	1084	1482
(WY)	1972	1984	1984	1997	1997	1986	1952	1952	1983	1983	1975	1983
MIN	51.0	55.6	80.4	77.7	85.3	142	369	349	142	53.9	53.9	47.3
(WY)	1978	1991	1991	1991	1933	1933	1977	1934	1931	1931	1931	1933

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1909 - 1999	
ANNUAL TOTAL	445522		462879			
ANNUAL MEAN	1221		1268		775	
HIGHEST ANNUAL MEAN					2443	
LOWEST ANNUAL MEAN					184	
HIGHEST DAILY MEAN	4480	Jun 14	4190	May 26	13400	Dec 23 1955
LOWEST DAILY MEAN	376	Feb 9	382	Jan 11	37	Sep 15 1933
ANNUAL SEVEN-DAY MINIMUM	388	Jan 21	388	Jan 8	40	Sep 9 1933
INSTANTANEOUS PEAK FLOW			4570	May 26	17500	Nov 21 1950
INSTANTANEOUS PEAK STAGE			7.58	May 26	14.50	Nov 21 1950
ANNUAL RUNOFF (AC-FT)	883700		918100		561800	
10 PERCENT EXCEEDS	2660		2550		1740	
50 PERCENT EXCEEDS	754		802		506	
90 PERCENT EXCEEDS	407		444		200	

PYRAMID AND WINNEMUCCA LAKES BASIN
10346000 TRUCKEE RIVER AT FARAD, CA--Continued

PRECIPITATION RECORDS

PERIOD OF RECORD.— April to September 1999.

INSTRUMENTATION.—Recording-weighing gage since Apr. 14, 1999.

EXTREMES FOR PERIOD OF RECORD.—Maximum recorded daily precipitation, 0.31 in., Aug. 9, 1999; no precipitation for many days.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.03	.00	.00	.00	.00
2	---	---	---	---	---	---	---	.00	.10	.00	.00	.00
3	---	---	---	---	---	---	---	.06	.14	.00	.00	.00
4	---	---	---	---	---	---	---	.00	.11	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.07	.00	.17	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.01
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.31	.03
10	---	---	---	---	---	---	---	.00	.00	.00	.12	.00
11	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.00	.03	.00
14	---	---	---	---	---	---	.04	.00	.00	.00	.00	.03
15	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
19	---	---	---	---	---	---	.00	.00	.00	.03	.00	.00
20	---	---	---	---	---	---	.00	.00	.00	.00	.00	.06
21	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	.03	.00	.00	.00	.04	.00
23	---	---	---	---	---	---	.00	.00	.00	.00	.03	.00
24	---	---	---	---	---	---	.00	.00	.04	.00	.00	.00
25	---	---	---	---	---	---	.00	.07	.00	.00	.00	.00
26	---	---	---	---	---	---	.03	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	.03	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	.21	.00	.00	.00	.00	.00
29	---	---	---	---	---	---	.27	.00	.00	.00	.00	.00
30	---	---	---	---	---	---	.11	.00	.00	.00	.03	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---
TOTAL	---	---	---	---	---	---	---	0.16	0.46	0.03	0.73	0.13

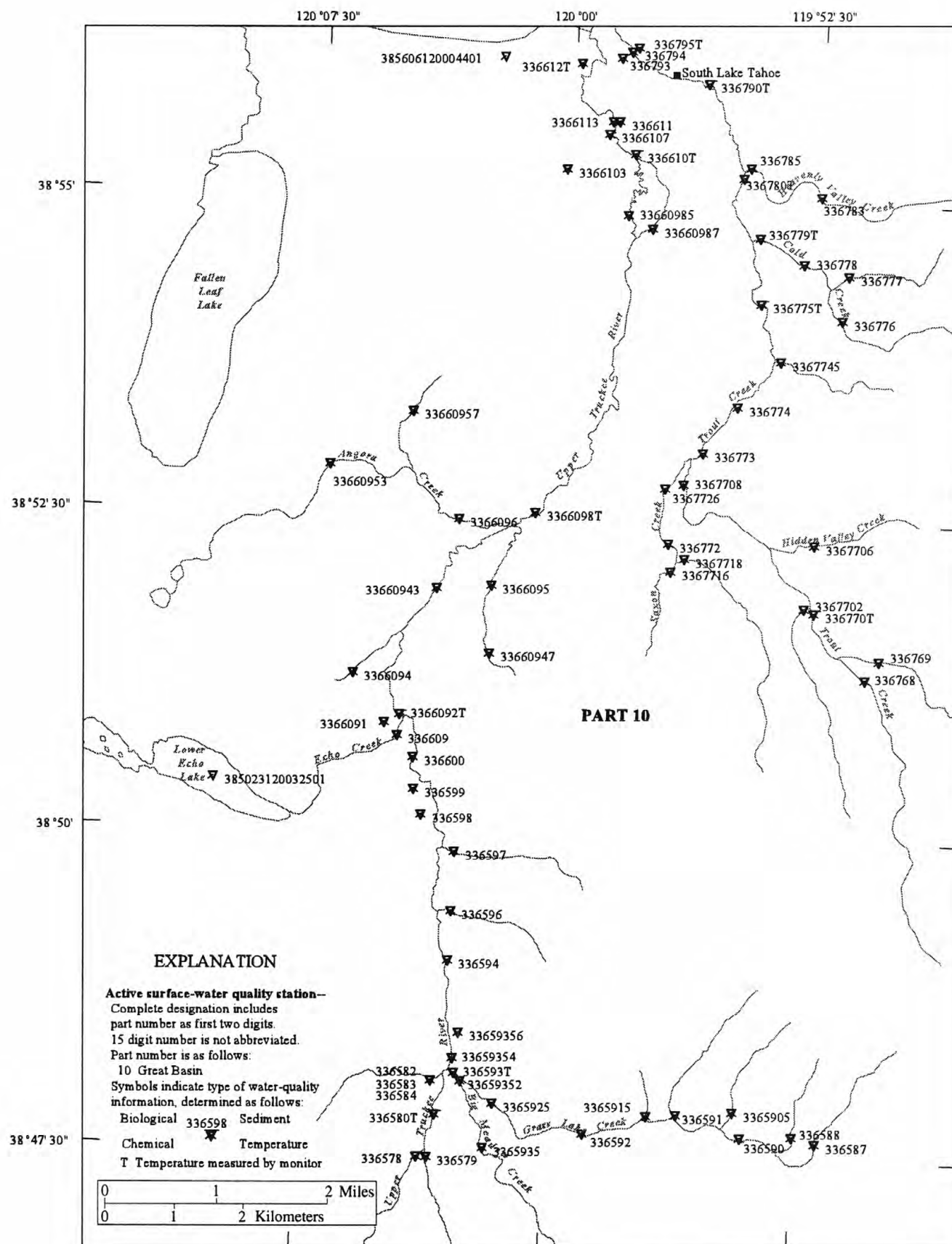


Figure 33. Surface-water quality stations, Upper Truckee River basin.

LOW-FLOW INVESTIGATION OF THE UPPER TRUCKEE RIVER AND TROUT CREEK AND SELECTED TRIBUTARIES

Miscellaneous sites were measured in cooperation with the Tahoe Regional Planning Agency to evaluate gains and losses of streamflow along the river, creek and selected tributaries. The following sites are shown in figure 33.

WATER-QUALITY DATA, OCTOBER 1998

STATION NUMBER	STATION NAME	DATE	TIME
10336578	UPPER TRUCKEE RIVER ABOVE TRIBUTARY ABOVE HAWLEY GRADE ROAD, CA	10-19-98	1450
10336579	UPPER TRUCKEE RIVER TRIBUTARY ABOVE HAWLEY GRADE ROAD, CA	10-19-98	1520
10336580	UPPER TRUCKEE RIVER AT UPPER TRUCKEE ROAD NEAR MEYERS, CA	10-19-98	1200
10336582	BENWOOD MEADOWS TRIBUTARY SOUTH AT SOUTH UPPER TRUCKEE ROAD, CA	10-19-98	--
10336583	BENWOOD MEADOWS TRIBUTARY MIDDLE AT UPPER TRUCKEE ROAD, CA	10-19-98	--
10336584	BENWOOD MEADOWS TRIBUTARY NORTH AT SOUTH UPPER TRUCKEE ROAD, CA	10-19-98	--
10336587	GRASS LAKE CREEK TRIBUTARY ABOVE HIGHWAY 89 NEAR LUTHER PASS, CA	10-19-98	1007
10336588	GRASS LAKE CREEK TRIBUTARY EAST ABOVE HIGHWAY 89, CA	10-19-98	1051
10336590	GRASS LAKE CREEK BELOW GRASS LAKE NEAR MEYERS, CA	10-19-98	1200
103365905	GRASS LAKE CREEK TRIBUTARY MIDDLE EAST ABOVE HIGHWAY 89, CA	10-19-98	1123
10336591	GRASS LAKE CREEK TRIBUTARY MIDDLE WEST ABOVE HIGHWAY 89, CA	10-19-98	1235
103365915	GRASS LAKE CREEK TRIBUTARY WEST ABOVE HIGHWAY 89, CA	10-19-98	1300
10336592	GRASS LAKE CREEK ABOVE BIG MEADOW CREEK NEAR MEYERS, CA	10-19-98	1329
103365925	GRASS LAKE CREEK AT HIGHWAY 89 NEAR MYERS, CA	10-19-98	1444
10336593	GRASS LAKE CREEK NEAR MEYERS, CA	10-19-98	1238
103365935	BIG MEADOW CREEK AT HIGHWAY 89 NEAR MYERS, CA	10-19-98	1545
1033659352	BIG MEADOW CREEK AT MOUTH NEAR GRASS LAKE ROAD, CA	10-19-98	1339
1033659354	UPPER TRUCKEE RIVER SOUTH TRIBUTARY AT GRASS LAKE ROAD, CA	10-19-98	1131
1033659356	UPPER TRUCKEE RIVER NORTH TRIBUTARY AT GRASS LAKE ROAD, CA	10-19-98	1120
10336594	UPPER TRUCKEE RIVER BELOW GRASS LAKE CREEK NEAR MEYERS, CA	10-19-98	1026
10336596	UPPER TRUCKEE RIVER TRIBUTARY AT HIGHWAY 89 SOUTH OF SANTA CLAUS DRIVE	10-19-98	1015
10336597	UPPER TRUCKEE RIVER TRIBUTARY AT HIGHWAY 89 NORTH OF SANTA CLAUS DRIVE	10-19-98	0941
10336598	UPPER TRUCKEE RIVER TRIBUTARY CELIO RANCH AT SOUTH UPPER TRUCKEE ROAD	10-19-98	--
10336599	UPPER TRUCKEE RIVER TRIBUTARY NEAR KEKIN STREET AT SOUTH UPPER TRUCKEE ROAD, CA	10-19-98	--
10336600	UPPER TRUCKEE RIVER NEAR MEYERS, CA	10-19-98	0940
10336609	ECHO CREEK NEAR MEYERS, CA	10-19-98	1520
103366091	UPPER TRUCKEE RIVER TRIBUTARY AT NORTH UPPER TRUCKEE ROAD NEAR HIGHWAY 50	10-19-98	1550
103366092	UPPER TRUCKEE RIVER AT HIGHWAY 50 ABOVE MEYERS, CA	10-19-98	1053
103366094	UPPER TRUCKEE RIVER TRIBUTARY AT NORTH UPPER TRUCKEE ROAD NEAR MYERS, CA	10-19-98	1600
1033660943	UPPER TRUCKEE RIVER ABOVE GOLF COURSE NEAR COUNTRY CLUB DRIVE	10-19-98	1338
1033660947	SANTE FE TRIBUTARY BELOW HIGHWAY 50 NEAR SANTE FE ROAD, CA	10-19-98	1300
103366095	SANTE FE TRIBUTARY A COUNTRY CLUB ROAD NEAR ARAPAHOE STREET, CA	10-19-98	0800
1033660953	ANGORA CREEK AT NORTH UPPER TRUCKEE ROAD NEAR MEYERS, CA	10-19-98	1207
1033660957	SAWMILL POND OUTLET AT SAWMILL ROAD NEAR MEYERS, CA	10-19-98	--
103366096	ANGORA CREEK NEAR SAWMILL ROAD NEAR MYERS, CA	10-19-98	1315
103366098	UPPER TRUCKEE RIVER AT HIGHWAY 50 BRIDGE BELOW MEYERS, CA	10-19-98	1356
1033660985	UPPER TRUCKEE RIVER BELOW SOUTH LAKE TAHOE AIRPORT WEST CHANNEL, CA	10-19-98	--
1033660987	UPPER TRUCKEE RIVER BELOW SOUTH LAKE TAHOE AIRPORT EAST CHANNEL, CA	10-19-98	0950
10336610	UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CA	10-19-98	0831
103366103	DUNLOP DRIVE DRAINAGE AT TAHOE ISLAND DRIVE NEAR SCHOOL, CA	10-19-98	1200
103366107	D STREET DRAINAGE AT SKY MEADOWS, CA	10-19-98	1015
10336611	UPPER TRUCKEE RIVER ABOVE MARSH EAST CHANNEL, CA	10-19-98	1113
103366113	UPPER TRUCKEE RIVER ABOVE MARSH WEST CHANNEL, CA	10-19-98	1040
10336612	UPPER TRUCKEE RIVER AT MOUTH NEAR VENICE DRIVE, CA	10-19-98	1148
10336768	HELL HOLE MEADOW TRIBUTARY NEAR MOUTH, CA	10-15-98	1333
10336769	TROUT CREEK ABOVE HELL HOLE TRIBUTARY AT HORSETRAIL CROSSING, CA	10-15-98	1436
10336770	TROUT CREEK AT USFS ROAD 12N01 NEAR MEYERS, CA	10-15-98	1001
103367702	TROUT CREEK TRIBUTARY BELOW GAGE AT USFS ROAD 12N01, CA	10-15-98	0915
103367706	HIDDEN VALLEY CREEK AT TRAIL CROSSING, CA	10-15-98	1147
103367708	TROUT CREEK ABOVE SAXON CREEK AT POWERLINE ROAD, CA	10-15-98	1310
103367716	SAXON CREEK ABOVE TRIBUTARY ABOVE OLD RAILROAD GRADE, CA	10-15-98	1055
103367718	SAXON CREEK TRIBUTARY ABOVE USFS ROAD 12N01, CA	10-15-98	1030
10336772	SAXON CREEK AT USFS ROAD 12N01 NEAR MEYERS	10-15-98	0835
103367726	SAXON CREEK BELOW LANDFILL AT POWERLINE ROAD, CA	10-15-98	1050
10336773	TROUT CREEK BELOW SAXON CREEK NEAR POWERLINE ROAD, CA	10-15-98	1150
10336774	TROUT CREEK TRIBUTARY NEAR PIONEER TRAIL AT OLD RAILROAD GRADE, CA	10-15-98	1000
103367745	TROUT CREEK TRIBUTARY NEAR COLUMBINE USGS ROAD 12N08, CA	10-15-98	0920
10336775	TROUT CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA	10-15-98	1315
10336776	COLD CREEK AT DEL NORTE DRIVE, CA	10-15-98	1212
10336777	COLD CREEK TRIBUTARY AT DEL NORTE DRIVE, CA	10-15-98	1115
10336778	COLD CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE, CA	10-15-98	0939
10336779	COLD CREEK AT MOUTH, CA	10-15-98	1450
10336780	TROUT CREEK NEAR TAHOE VALLEY, CA	10-15-98	0910
10336783	HEAVENLY VALLEY CREEK AT PIONEER TRAIL NEAR SOUTH LAKE TAHOE	10-15-98	1041
10336785	HEAVENLY VALLEY CREEK NEAR TAHOE VALLEY	10-15-98	0806
10336790	TROUT CREEK AT SOUTH LAKE TAHOE CALIF	10-15-98	0905
10336793	TROUT CREEK NEAR MOUTH WEST NEAR BELLEVUE/ELDORADO AVENUE, CA	10-15-98	1108
10336794	TROUT CREEK NEAR MOUTH MIDDLE NEAR BELLEVUE/ELDORADO AVENUE, CA	10-15-98	1138
10336795	TROUT CREEK NEAR MOUTH EAST NEAR BELLEVUE/ELDORADO AVE, CA	10-15-98	1302

STATION	NUMBER	DATE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)
10336578		10-19-98	1.5	32	--	3.5
10336579		10-19-98	.29	54	--	3.5
10336580		10-19-98	4.2	43	16.0	3.5
10336582		10-19-98	.00	--	--	--
10336583		10-19-98	.00	--	--	--
10336584		10-19-98	.00	--	--	--
10336587		10-19-98	.32	32	4.5	2.0
10336588		10-19-98	.05	30	4.0	3.5
10336590		10-19-98	1.9	39	7.5	8.5
103365905		10-19-98	.23	26	5.0	3.0
10336591		10-19-98	.45	38	9.5	3.0
103365915		10-19-98	.06	33	11.0	6.0
10336592		10-19-98	3.2	57	8.5	5.5
103365925		10-19-98	3.3	62	10.5	4.5
10336593		10-19-98	1.6	62	12.5	4.0
103365935		10-19-98	1.3	54	8.5	4.5
1033659352		10-19-98	.88	55	11.5	2.5
1033659354		10-19-98	1.2	64	12.5	4.0
1033659356		10-19-98	.00	--	--	--
10336594		10-19-98	8.7	61	9.0	2.5
10336596		10-19-98	.00	--	--	--
10336597		10-19-98	.17	42	2.0	2.5
10336598		10-19-98	.00	--	--	--
10336599		10-19-98	.00	--	--	--
10336600		10-19-98	11	73	12.0	3.5
10336609		10-19-98	.17	122	10.0	4.5
103366091		10-19-98	.00	--	--	--
103366092		10-19-98	12	80	9.5	4.5
103366094		10-19-98	.23	24	7.0	3.5
1033660943		10-19-98	14	84	12.0	7.5
1033660947		10-19-98	.00	--	--	--
103366095		10-19-98	.00	--	--	--
1033660953		10-19-98	.28	66	11.5	3.0
1033660957		10-19-98	.00	--	--	--
103366096		10-19-98	1.4	66	12.5	3.5
103366098		10-19-98	14	83	13.0	7.0
1033660985		10-19-98	.00	--	--	--
1033660987		10-19-98	15	85	7.5	3.5
10336610		10-19-98	18	85	5.5	5.0
103366103		10-19-98	.00	--	16.0	--
103366107		10-19-98	.00	--	--	--
10336611		10-19-98	.00	--	15.0	--
103366113		10-19-98	17	85	13.0	6.0
10336612		10-19-98	--	85	15.5	5.5
10336768		10-15-98	2.2	51	6.0	2.5
10336769		10-15-98	5.8	44	5.5	4.5
10336770		10-15-98	8.4	48	3.5	2.5
103367702		10-15-98	1.6	41	.5	2.0
103367706		10-15-98	1.0	46	7.5	3.5
103367708		10-15-98	9.9	47	10.5	4.0
103367716		10-15-98	3.0	42	8.0	3.5
103367718		10-15-98	.44	51	9.5	4.0
10336772		10-15-98	2.5	44	1.0	2.5
103367726		10-15-98	3.0	50	7.0	3.5
10336773		10-15-98	14	49	8.0	4.0
10336774		10-15-98	.15	77	4.5	4.0
103367745		10-15-98	.29	83	2.5	4.0
10336775		10-15-98	14	50	10.5	5.5
10336776		10-15-98	11	40	11.5	4.0
10336777		10-15-98	<.05	--	--	--
10336778		10-15-98	12	41	8.5	3.5
10336779		10-15-98	12	42	12.5	6.0
10336780		10-15-98	27	47	4.5	3.5
10336783		10-15-98	1.1	39	8.5	4.0
10336785		10-15-98	.91	41	2.5	2.5
10336790		10-15-98	28	47	--	--
10336793		10-15-98	.51	47	--	7.0
10336794		10-15-98	11	47	--	5.5
10336795		10-15-98	15	47	--	7.0

QUALITY OF SURFACE WATER
LAKE TAHOE BASIN

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency to determine the effectiveness of the prohibition of carbureted 2-stroke engines in the Lake Tahoe Basin. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data." The following sites are shown in figures 18 and 33.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	STATION NAME	DATE	TIME	SAMPLE TYPE	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET) (81903)
385023120032501	LOWER ECHO LAKE SAMPLE SITE NEAR CENTER	06-22-99	1030	ENVIRONMENTAL.	7410	9.8
		07-08-99	1040	ENVIRONMENTAL		9.8
		08-16-99	1030	ENVIRONMENTAL.		9.8
		09-08-99	1045	ENVIRONMENTAL.		9.8
		06-14-99	1420	ENVIRONMENTAL.		9.8
385606120004401	LAKE TAHOE SAMPLE POINT AT TAHOE KEYS, CA	07-06-99	1440	ENVIRONMENTAL	6229	9.8
		08-17-99	1430	ENVIRONMENTAL		9.8
		09-07-99	1422	ENVIRONMENTAL		9.8
		06-14-99	1330	ENVIRONMENTAL		9.8
385631120032001	LAKE TAHOE SAMPLE POINT NEAR KIVA BEACH, CA	07-06-99	1400	ENVIRONMENTAL	6229	9.8
		08-17-99	1340	ENVIRONMENTAL		9.8
		09-07-99	1335	ENVIRONMENTAL		9.8
		01-13-99	1440	ENVIRONMENTAL		9.8
385636120005701	LAKE TAHOE SAMPLE POINT AT TAHOE KEYS MARINA, CA	06-14-99	1350	ENVIRONMENTAL	6229	9.8
		07-06-99	1420	ENVIRONMENTAL		9.8
		08-17-99	1400	ENVIRONMENTAL		9.8
		09-07-99	1400	ENVIRONMENTAL		9.8
		06-14-99	0830	ENVIRONMENTAL		9.8
385704119573001	LAKE TAHOE SAMPLE POINT AT SKI RUN MARINA, CA	07-06-99	0940	ENVIRONMENTAL	6229	9.8
		08-17-99	0820	ENVIRONMENTAL		9.8
		09-07-99	0855	ENVIRONMENTAL		9.8
		06-14-99	1240	ENVIRONMENTAL		9.8
385708120053101	EMERALD BAY SAMPLE POINT OFF SOUTH SIDE OF BAY	07-06-99	1330	ENVIRONMENTAL	6229	9.8
		08-17-99	1300	ENVIRONMENTAL		9.8
		09-07-99	1230	ENVIRONMENTAL		9.8
		01-13-99	1350	ENVIRONMENTAL		9.8
		01-13-99	1400	ENVIRONMENTAL		9.8
390026119570601	LAKE TAHOE SAMPLE POINT AT ZEPHYR COVE, NV	01-13-99	1410	ENVIRONMENTAL	6229	9.8
		01-13-99	1418	AMBIENT BLANK		--
		06-14-99	0858	AMBIENT BLANK		--
		06-14-99	0900	ENVIRONMENTAL		9.8
		07-06-99	1000	ENVIRONMENTAL		9.8
390228119565901	LAKE TAHOE SAMPLE POINT NEAR CAVE ROCK, NV	08-17-99	0850	ENVIRONMENTAL	6229	9.8
		09-07-99	0924	AMBIENT BLANK		--
		09-07-99	0925	ENVIRONMENTAL		9.8
		06-14-99	0930	ENVIRONMENTAL		9.8
		07-06-99	1020	ENVIRONMENTAL		9.8
390519119563501	LAKE TAHOE SAMPLE POINT AT GLENBROOK BAY, NV	08-17-99	0910	ENVIRONMENTAL	6229	9.8
		09-07-99	0955	ENVIRONMENTAL		9.8
		01-13-99	1310	ENVIRONMENTAL		9.8
		01-13-99	1020	ENVIRONMENTAL		98
390809120045201	LAKE TAHOE TRG BOUY NEAR TAHOE CITY, CA	01-13-99	1030	ENVIRONMENTAL	6229	98
		01-13-99	1040	ENVIRONMENTAL		98
		01-13-99	1100	ENVIRONMENTAL		9.8
		06-14-99	1110	ENVIRONMENTAL		9.8
391006120080101	LAKE TAHOE SAMPLE POINT AT TAHOE CITY, CA	07-06-99	1130	ENVIRONMENTAL	6229	9.8
		08-17-99	1050	ENVIRONMENTAL		9.8
		09-07-99	1135	ENVIRONMENTAL		9.8
		01-13-99	1200	ENVIRONMENTAL		9.8
		06-14-99	1020	ENVIRONMENTAL		9.8
391415119564901	LAKE TAHOE SAMPLE POINT AT INCLINE BEACH, NV	06-15-99	1108	SAMPLER BLANK	6229	--
		06-15-99	1118	SOURCE SOLUTION BLANK		--
		07-06-99	1100	ENVIRONMENTAL		9.8
		08-02-99	0908	SAMPLER BLANK		--
		08-02-99	0918	SOURCE SOLUTION BLANK		--
		08-17-99	1020	ENVIRONMENTAL		9.8
		09-07-99	1055	ENVIRONMENTAL		9.8

QUALITY OF SURFACE WATER
LAKE TAHOE BASIN--Continued

STATION NUMBER	DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN,	ETHYL- BENZENE TOTAL (UG/L) (34371)	TOLUENE TOTAL (UG/L) (34010)	
				WATER					OXYGEN,			DIS-
				WHOLE					(PER-			SOLVED
				FIELD					CENT			SATUR-
			(STAND- ARD UNITS) (00400)									
385023120032501	06-22-99	1030	--	--	--	--	--	--	--	E.025	E.031	.16
	07-08-99	1040	--	--	--	--	--	--	--	E.087	E.052	.37
	08-16-99	1030	--	--	--	--	--	--	--	.15	E.10	.69
	09-08-99	1045	--	--	--	--	--	--	--	.12	E.017	.61
385606120004401	06-14-99	1420	--	--	--	--	--	--	--	E.058	E.014	.13
	07-06-99	1440	--	--	--	--	--	--	--	E.036	<.03	E.021
	08-17-99	1430	--	--	--	--	--	--	--	E.072	E.027	.16
	09-07-99	1422	--	--	--	--	--	--	--	<.1	<.03	<.05
385631120032001	06-14-99	1330	--	--	--	--	--	--	--	E.040	E.022	.14
	07-06-99	1400	--	--	--	--	--	--	--	E.038	E.021	.12
	08-17-99	1340	--	--	--	--	--	--	--	.12	E.064	.39
	09-07-99	1335	--	--	--	--	--	--	--	.13	E.036	.44
385636120005701	01-13-99	1440	84.6	7.3	5.0	5.3	--	11.3	--	<.10	<.03	<.05
	06-14-99	1350	--	--	--	--	--	--	--	E.071	E.037	.22
	07-06-99	1420	--	--	--	--	--	--	--	E.055	E.038	.21
	08-17-99	1400	--	--	--	--	--	--	--	E.079	E.044	.28
385704119573001	09-07-99	1400	--	--	--	--	--	--	--	E.093	E.023	.29
	06-14-99	0830	--	--	--	--	--	--	--	E.019	E.010	E.063
	07-06-99	0940	--	--	--	--	--	--	--	E.064	E.048	.25
	08-17-99	0820	--	--	--	--	--	--	--	E.093	E.040	.26
385708120053101	09-07-99	0855	--	--	--	--	--	--	--	.14	E.051	.57
	06-14-99	1240	--	--	--	--	--	--	--	E.10	E.051	.25
	07-06-99	1330	--	--	--	--	--	--	--	.20	E.050	.45
	08-17-99	1300	--	--	--	--	--	--	--	.16	<.03	E.086
390026119570601	09-07-99	1230	--	--	--	--	--	--	--	.20	E.016	.30
	01-13-99	1350	84.4	7.3	6.0	5.2	610.	11.4	112	<.10	<.03	E.022
	01-13-99	1400	84.4	7.3	6.0	5.2	610.	11.4	112	<.10	<.03	E.026
	01-13-99	1410	84.4	7.3	6.0	5.2	610.	11.4	112	<.10	<.03	E.021
	01-13-99	1418	--	--	--	--	--	--	--	<.10	<.03	<.05
	06-14-99	0858	--	--	--	--	--	--	--	<.10	<.03	<.05
	06-14-99	0900	--	--	--	--	--	--	--	E.051	E.031	.22
	07-06-99	1000	--	--	--	--	--	--	--	E.088	E.049	.34
	08-17-99	0850	--	--	--	--	--	--	--	E.077	E.045	.27
	09-07-99	0924	--	--	--	--	--	--	--	<.10	<.03	<.05
	09-07-99	0925	--	--	--	--	--	--	--	E.093	E.041	.39
	390228119565901	06-14-99	0930	--	--	--	--	--	--	--	E.029	E.016
07-06-99		1020	--	--	--	--	--	--	--	E.043	E.024	.16
08-17-99		0910	--	--	--	--	--	--	--	E.038	<.03	.10
09-07-99		0955	--	--	--	--	--	--	--	E.037	E.0077	.16
390519119563501	01-13-99	1310	87.2	7.3	6.0	5.0	610.	11.6	114	<.10	<.03	<.05
390809120045201	01-13-99	1020	85.3	7.2	2.5	5.3	610.	10.6	105	<.10	<.03	<.05
	01-13-99	1030	85.3	7.2	2.5	5.3	610.	10.6	105	<.10	<.03	<.05
	01-13-99	1040	85.3	7.2	2.5	5.3	610.	10.6	105	<.10	<.03	<.05
	01-13-99	1100	84.3	7.6	2.5	5.3	610.	10.7	106	<.10	<.03	<.05
391006120080101	06-14-99	1110	--	--	--	--	--	--	--	E.016	E.0072	E.050
	07-06-99	1130	--	--	--	--	--	--	--	E.050	E.030	.17
	08-17-99	1050	--	--	--	--	--	--	--	E.052	E.023	.16
	09-07-99	1135	--	--	--	--	--	--	--	E.057	E.012	.16
	391415119564901	01-13-99	1200	84.9	7.3	5.5	5.2	610.	11.0	109	<.10	<.03
	06-14-99	1020	--	--	--	--	--	--	--	E.087	E.052	.33
	06-15-99	1108	--	--	--	--	--	--	--	<.10	<.03	<.05
	06-15-99	1118	--	--	--	--	--	--	--	<.10	<.03	<.05
	07-06-99	1100	--	--	--	--	--	--	--	E.067	E.048	.27
	08-02-99	0908	--	--	--	--	--	--	--	<.10	<.03	<.05
	08-02-99	0918	--	--	--	--	--	--	--	<.10	<.03	<.05
	08-17-99	1020	--	--	--	--	--	--	--	E.035	<.03	E.088
	09-07-99	1055	--	--	--	--	--	--	--	E.064	E.016	.17

QUALITY OF SURFACE WATER
LAKE TAHOE BASIN--Continued

STATION NUMBER	DATE	TIME	METHYL- TERT- BUTYL ETHER WAT UNF REC (UG/L) (78032)	DI-ISO- PROPYL- ETHER, UNFLTRD RECOVER (UG/L) (81577)	ETHER TERT- BUTYL ETHYL UNFLTRD RECOVER (UG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (UG/L) (50005)	META/ PARA- XYLENE WATER UNFLTRD REC (UG/L) (85795)	O- XYLENE WHOLE WATER UNFLTRD TOTAL (UG/L) (77135)	ETHANE 12DICL SURROG VOC REC (99832)	TOLUENE D8 SURROG VOC REC (99833)	BENZENE 14BFFI- SURROG VOC UNFLTRD REC (99834)
385023120032501	06-22-99	1030	.24	<.098	<.054	E.051	E.10	E.044	^a 108.	^a 103.	^a 103.
	07-08-99	1040	.60	<.098	<.054	.13	.23	.11	^a 101.	^a 101.	^a 101.
	08-16-99	1030	.66	<.098	<.054	E.075	E.19	.38	^a 106.	^a 101.	^a 95.5
	09-08-99	1045	.65	<.098	<.054	E.076	E.16	E.085	^a 114.	^a 105.	^a 117.
385606120004401	06-14-99	1420	.54	<.098	<.054	E.020	E.076	E.035	^a 109.	^a 106.	^a 118.
	07-06-99	1440	.88	<.098	<.054	E.043	E.016	E.012	^a 104.	^a 101.	^a 101.
	08-17-99	1430	2.4	<.098	<.054	E.064	E.15	E.067	^a 96.7	^a 101.	^a 93.
	09-07-99	1422	2.4	<.098	<.054	E.060	<.06	<.06	^a 113.	^a 101.	^a 106.
385631120032001	06-14-99	1330	.19	<.098	<.054	<.11	E.084	E.033	^a 107.	^a 106.	^a 117.
	07-06-99	1400	E.084	<.098	<.054	<.11	E.081	E.032	^a 104.	^a 101.	^a 101.
	08-17-99	1340	.24	<.098	<.054	<.11	.30	.11	^a 99.9	^a 98.	^a 96.9
	09-07-99	1335	E.17	<.098	<.054	<.11	.32	.10	^a 117.	^a 108.	^a 113.
385636120005701	01-13-99	1440	<.17	--	<.054	<.11	<.06	<.06	^a 105.	^a 99.0	^a 93.0
	06-14-99	1350	.29	<.098	<.054	<.11	E.15	E.056	^a 116.	^a 108.	^a 117.
	07-06-99	1420	E.15	<.098	<.054	<.11	E.15	E.059	^a 105.	^a 101.	^a 102.
	08-17-99	1400	E.16	<.098	<.054	<.11	.22	E.078	^a 99.6	^a 98.8	^a 95.9
	09-07-99	1400	E.13	<.098	<.054	<.11	E.18	E.058	^a 117.	^a 105.	^a 109.
385704119573001	06-14-99	0830	E.13	<.098	<.054	<.11	E.04	E.015	^a 110.	^a 104.	^a 110.
	07-06-99	0940	.18	<.098	<.054	<.11	.20	E.079	^a 104.	^a 100.	^a 103.
	08-17-99	0820	.17	<.098	<.054	<.11	.23	E.085	^a 98.8	^a 96.6	^a 95.7
	09-07-99	0855	E.14	<.098	<.054	<.11	.43	.14	^a 117.	^a 107.01	113.
385708120053101	06-14-99	1240	.48	<.098	<.054	E.027	.22	E.086	^a 107.	^a 104.86	111.
	07-06-99	1330	.54	<.098	<.054	E.024	E.20	E.069	^a 104.	^a 101.16	103.
	08-17-99	1300	.50	<.098	<.054	<.11	E.046	<.06	^a 97.4	^a 96.54	^a 93.1
	09-07-99	1230	.40	<.098	<.054	<.11	E.16	E.047	^a 114.	^a 105.19	108.
390026119570601	01-13-99	1350	<.17	--	<.054	<.11	E.021	<.06	^a 105.	^a 99.0	^a 93.0
	01-13-99	1400	<.17	--	<.054	<.11	E.022	<.06	^a 101.	^a 98.0	^a 92.0
	01-13-99	1410	<.17	--	<.054	<.11	E.021	<.06	^a 103.	^a 98.0	^a 94.0
	01-13-99	1418	<.17	--	<.054	<.11	<.06	<.06	^a 101.	^a 98.0	^a 94.0
	06-14-99	0858	<.17	<.098	<.054	<.11	<.06	<.06	^a 112.	^a 105.	^a 111.
	06-14-99	0900	.17	<.098	<.054	<.11	E.12	E.051	^a 108.	^a 107.	^a 112.
	07-06-99	1000	E.12	<.098	<.054	<.11	E.19	E.075	^a 103.	^a 102.	^a 93.0
	08-17-99	0850	E.12	<.098	<.054	<.11	.24	E.089	^a 103.	^a 97.9	^a 97.1
	09-07-99	0924	<.17	<.098	<.054	<.11	<.06	<.06	^a 116.	^a 103.	^a 106.
	09-07-99	0925	<.17	<.098	<.054	<.11	.29	.10	^a 115.	^a 105.	^a 111.
390228119565901	06-14-99	0930	E.10	<.098	<.054	<.11	E.064	E.026	^a 111.	^a 107.	^a 110.
	07-06-99	1020	E.10	<.098	<.054	<.11	E.087	E.037	^a 108.	^a 100.	^a 95.4
	08-17-99	0910	<.17	<.098	<.054	<.11	E.078	<.06	^a 97.6	^a 98.1	^a 94.3
	09-07-99	0955	<.17	<.098	<.054	<.11	E.040	E.015	^a 116.	^a 105.	^a 110.
390519119563501	01-13-99	1310	<.17	--	<.054	<.11	<.06	<.06	^a 102.	^a 98.0	^a 94.0
390809120045201	01-13-99	1020	<.17	--	<.054	<.11	<.06	<.06	^a 101.	^a 98.0	^a 93.0
	01-13-99	1030	<.17	--	<.054	<.11	<.06	<.06	^a 105.	^a 100.	^a 95.0
	01-13-99	1040	<.17	--	<.054	<.11	<.06	<.06	^a 101.	^a 99.0	^a 94.0
	01-13-99	1100	<.17	--	<.054	<.11	<.06	<.06	^a 104.	^a 99.0	^a 94.0
391006120080101	06-14-99	1110	E.066	<.098	<.054	<.11	E.027	<.06	^a 108.	^a 106.	^a 108.
	07-06-99	1130	E.15	<.098	<.054	<.11	E.12	E.049	^a 103.	^a 101.	^a 103.
	08-17-99	1050	E.091	<.098	<.054	<.11	E.12	E.043	^a 98.3	^a 98.3	^a 95.9
	09-07-99	1135	E.071	<.098	<.054	<.11	E.089	E.033	^a 115.	^a 104.	^a 109.
391415119564901	01-13-99	1200	<.17	--	<.054	<.11	<.06	<.06	^a 101.	^a 99.0	^a 93.0
	06-14-99	1020	E.16	<.098	<.054	<.11	E.18	E.077	^a 110.	^a 106.	^a 107.
	06-15-99	1108	<.17	<.098	<.054	<.11	<.06	<.06	^a 110.	^a 105.	^a 112.
	06-15-99	1118	<.17	<.098	<.054	<.11	<.06	<.06	^a 107.	^a 106.	^a 114.
	07-06-99	1100	E.12	<.098	<.054	<.11	E.20	E.078	^a 103.	^a 103.	^a 101.
	08-02-99	0908	<.17	<.098	<.054	<.11	<.06	<.06	^a 110.	^a 99.2	^a 91.0
	08-02-99	0918	<.17	<.098	<.054	<.11	<.06	<.06	^a 111.	^a 99.6	^a 89.8
	08-17-99	1020	<.17	<.098	<.054	<.11	E.066	E.025	^a 99.5	^a 101.	^a 92.7
	09-07-99	1055	<.17	<.098	<.054	<.11	E.10	E.038	^a 117.	^a 106.	^a 110.

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").

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

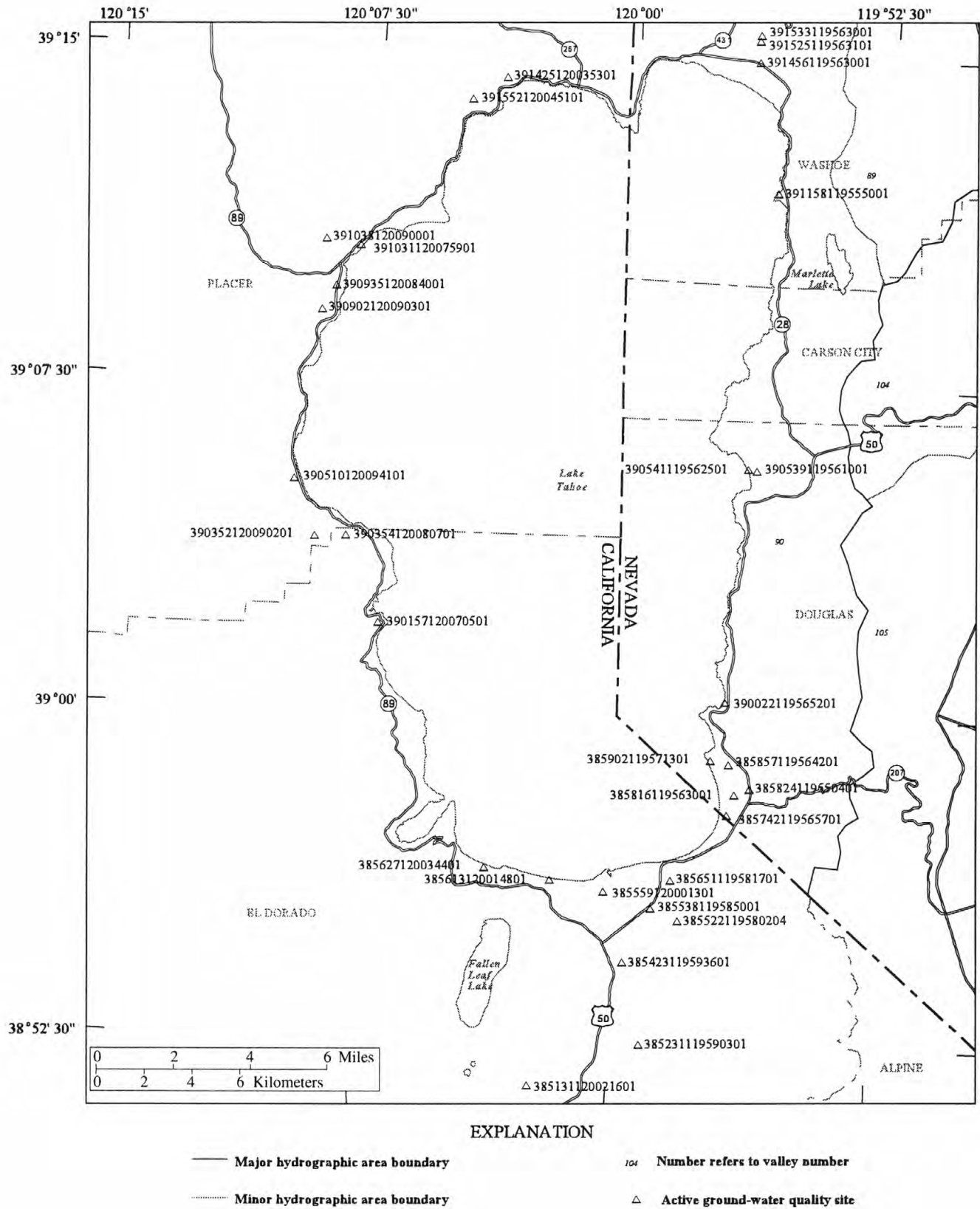


Figure 34. Ground-water quality sites, Lake Tahoe Basin.

QUALITY OF GROUND WATER

LAKE TAHOE BASIN

Water-quality measurements in the following table were made in cooperation with the Tahoe Regional Planning Agency from ground-water sites throughout the Lake Tahoe Basin to monitor long-term nutrient concentrations. Samples were analyzed by the University of California, Davis, Tahoe Research Group. The following sites are shown in figure 34.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999										
STATION NUMBER	LOCAL WELL NUMBER	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)		
385651119581701	90 N12 E18 03ABA 1	07-21-99	1115	6260	--	125	--	6.9		
385538119585001	90 N12 E18 03BCC 1	07-19-99	1315	6260	--	--	--	6.8		
385522119580204	90 N12 E18 03DAAB4	07-29-99	1145	6260	67.17	135	--	6.6		
385559120001301	90 N12 E18 05AADD1	07-21-99	1030	6230	--	318	--	8.6		
385423119593601	90 N12 E18 09ABC 1	07-21-99	0915	6240	--	380	--	9.1		
385231119590301	90 N12 E18 22BCBB1	07-29-99	1350	6340	18.65	27	--	6.2		
385131120021601	90 N12 E18 29BCCC1	07-21-99	0800	--	--	--	--	8.9		
385627120034401	90 N13 E17 26DDBA1	07-13-99	1540	6235	--	100	--	7.7		
385613120014801	90 N13 E18 06ABBC1	07-13-99	1430	6235	2.00	20	--	6.4		
390022119565201	90 N13 E18 10BDBD1	07-15-99	1445	6240	12.28	31	--	6.4		
385902119571301	90 N13 E18 16CCC 1	07-16-99	1405	6235	--	58	--	7.0		
385857119564201	90 N13 E18 22BAA 1	07-16-99	1230	6275	--	200	--	6.5		
385816119563001	90 N13 E18 22DCA 1	07-20-99	1430	6260	11.85	24	--	6.5		
385824119550401	90 N13 E18 23CBB 1	07-16-99	1500	6335	--	--	.53	7.4		
385742119565701	90 N13 E18 27BDA 1	07-20-99	1330	6245	11.38	23	--	6.8		
390510120094101	90 N14 E16 01CADD1	07-23-99	1115	6270	--	114	--	7.3		
390354120080701	90 N14 E17 18AADB1	07-27-99	1450	6305	--	--	--	7.3		
390352120090201	90 N14 E17 18BBCA1	08-02-99	1330	6380	--	323	--	6.9		
390157120070501	90 N14 E17 29ADC 1	08-04-99	1150	6315	--	320	--	6.9		
390541119562501	90 N14 E18 10ABD 1	07-15-99	1340	6235	13.34	28	--	6.5		
390539119561001	90 N14 E18 10ADA 1	07-16-99	1025	6270	7.56	27	--	6.9		
391031120075901	90 N15 E17 05ABBC1	07-23-99	1350	6245	--	160	--	7.8		
391038120090001	90 N15 E17 06BCC 1	08-04-99	1015	6580	--	223	--	7.7		
390935120084001	90 N15 E17 07CADB1	07-23-99	1220	6260	--	265	--	7.4		
390902120090301	90 N15 E17 18BCB 1	08-04-99	1055	6480	--	445	--	7.3		
391158119555001	90 N15 E18 02BBD1	07-28-99	1040	6230	--	110	--	6.4		
391425120035301	90 N16 E17 14BBCB1	07-27-99	1625	6440	--	415	--	8.2		
391552120045101	90 N16 E17 15CCAA1	07-27-99	1335	6310	--	218	--	7.2		
391533119563001	90 N16 E18 10DDC 1	07-29-99	1615	6625	30.79	46	--	6.2		
391525119563101	90 N16 E18 15AAB 1	07-28-99	1245	6550	17.25	39	--	6.2		
391456119563001	90 N16 E18 15BDD 1	07-27-99	1120	6360	9.82	14	--	6.4		
STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON BIO- REACT- IVE DIS- SOLVED (UG/L AS FE)
385651119581701	07-21-99	96	20.5	9.5	.001	.05	.478	.026	.010	4.7
385538119585001	07-19-99	206	23.5	12.0	.001	.05	2.44	.018	.007	16
385522119580204	07-29-99	89	24.5	11.5	.010	.20	.004	.033	.018	58
385559120001301	07-21-99	103	16.5	9.5	.003	<.04	.366	.029	.015	3.1
385423119593601	07-21-99	110	16.5	10.5	.014	<.04	.003	.081	.068	11
385231119590301	07-29-99	344	27.5	12.0	.001	.30	2.43	.032	.024	38
385131120021601	07-21-99	153	11.5	12.0	.002	.05	.303	.034	.023	6.6
385627120034401	07-13-99	125	27.0	8.5	<.001	<.04	.056	.089	.082	5.4
385613120014801	07-13-99	238	24.0	8.5	.492	1.2	.071	.046	.034	8900
390022119565201	07-15-99	468	22.5	9.5	<.001	.05	5.49	.030	.013	12
385902119571301	07-16-99	163	22.5	11.0	.001	<.04	.227	.020	.005	290
385857119564201	07-16-99	364	24.0	8.5	<.001	<.04	.090	.029	.008	17
385816119563001	07-20-99	230	24.5	10.5	.001	.07	7.91	.015	.006	3.0
385824119550401	07-16-99	156	21.5	10.0	.004	<.04	.132	.025	.012	8.0
385742119565701	07-20-99	437	24.0	11.0	.003	.08	.009	.026	.011	7.0
390510120094101	07-23-99	147	19.0	6.5	<.001	<.04	.055	.043	.003	3.6
390354120080701	07-27-99	120	25.5	7.0	<.001	<.04	.107	.042	.030	6.3
390352120090201	08-02-99	114	19.5	6.0	<.001	<.04	.028	.040	.029	3.6
390157120070501	08-04-99	130	19.5	8.0	.001	<.04	.084	.110	.094	4.0
390541119562501	07-15-99	269	21.5	10.0	.001	.09	.069	.051	.037	8.2
390539119561001	07-16-99	280	20.5	8.5	<.001	<.04	.124	.081	.066	4.3
391031120075901	07-23-99	159	23.0	10.0	.001	<.04	.042	.074	.063	5.9
391038120090001	08-04-99	111	18.0	7.0	.002	<.04	.129	.062	.051	2.9
390935120084001	07-23-99	182	21.5	11.0	.171	<.04	.106	.054	.040	7.7
390902120090301	08-04-99	176	19.5	7.0	<.001	<.04	.109	.055	.040	12
391158119555001	07-28-99	218	22.0	9.0	.004	.05	.013	.020	.013	350
391425120035301	07-27-99	195	29.0	11.5	<.001	<.04	.052	.049	.038	5.9
391552120045101	07-27-99	176	25.0	7.5	.002	.05	.046	.037	.024	10
391533119563001	07-29-99	207	21.0	11.0	.003	.06	2.79	.063	.046	27
391525119563101	07-28-99	298	23.5	10.5	.004	.14	2.90	.033	.019	9.1
391456119563001	07-27-99	317	23.5	9.0	.073	.26	.029	.018	.027	4000

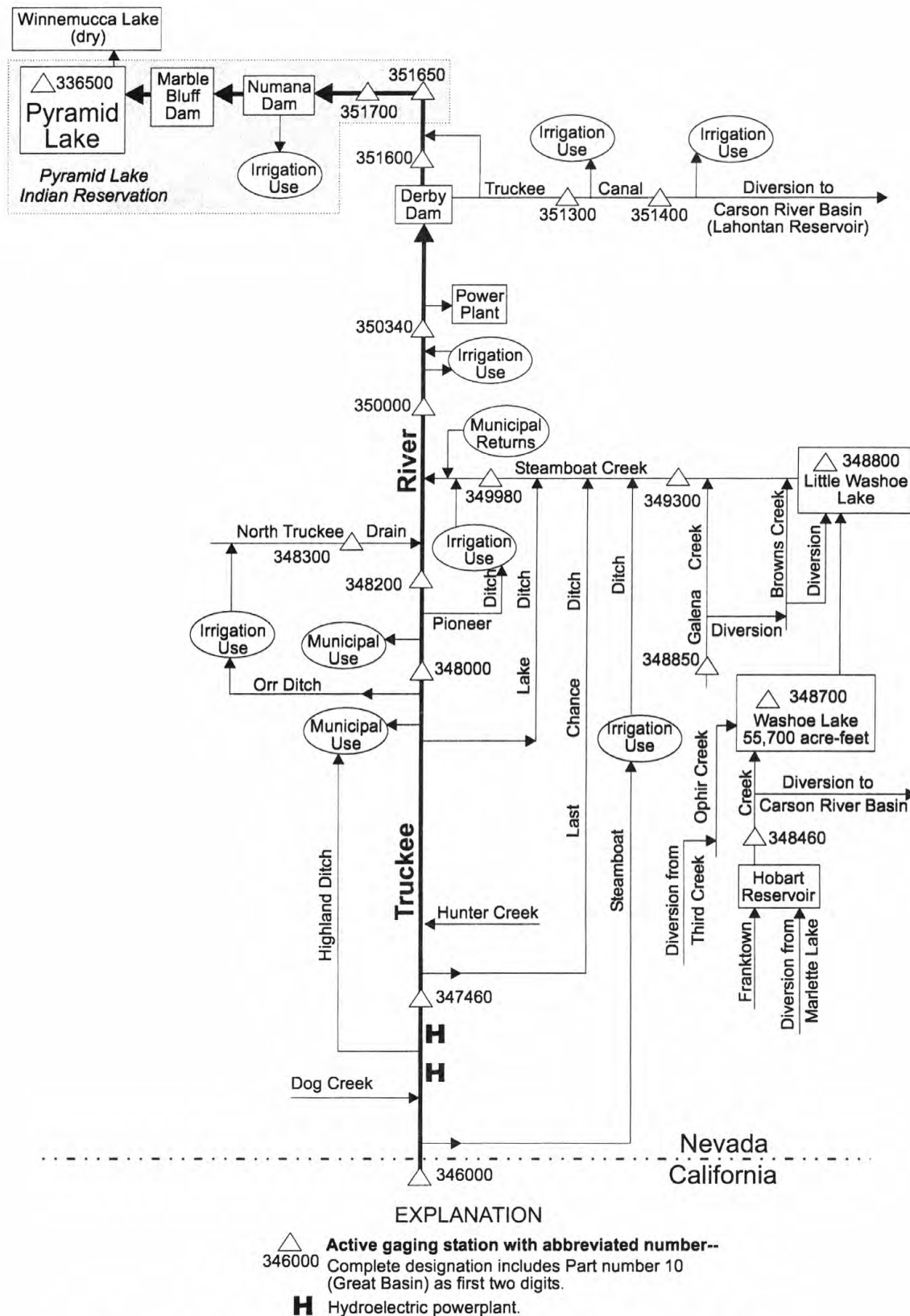


Figure 35. Schematic diagram of flow system and gaging stations in the Pyramid and Winnemucca Lakes Basin downstream of station 346000.

PYRAMID AND WINNEMUCCA LAKES BASIN

10347460 TRUCKEE RIVER NEAR MOGUL, NV

LOCATION (REVISED).--Lat 39°30'26", long 119°55'51", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.14 T.19 N., R.18 E., Washoe County, Hydrologic Unit 16050102, on left bank, at bridge crossing, 0.5 mi southwest of Mogul, and at mi 68.74, upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,035 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 4,690 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s, January 2, 1997, gage height, 15.85 ft; minimum daily, 2.4 ft³/s, October 30, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,400 ft³/s, May 27, gage height, 9.50 ft; minimum daily, 355 ft³/s, November 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	693	416	824	465	993	2750	1550	2330	3060	1350	517	536
2	686	409	779	435	982	2780	1350	2490	2780	1310	514	540
3	682	399	912	435	962	3030	1330	2390	2380	1270	511	544
4	678	387	986	436	980	3010	1300	2310	2190	1210	501	550
5	665	397	1040	438	827	2880	1230	2240	2250	1130	529	545
6	681	448	1050	427	786	2270	1100	2270	2380	1050	528	540
7	687	422	964	444	1300	2250	1080	2430	2340	1020	527	540
8	663	427	904	443	1820	2130	1170	2470	2190	989	519	538
9	661	390	898	428	2560	2020	1240	2420	2230	973	522	531
10	675	355	875	428	2990	1980	1250	2390	2230	922	554	540
11	689	392	869	427	e2800	1980	1260	2490	2240	907	508	535
12	683	392	866	428	e2550	1870	1300	2830	2090	872	491	532
13	682	390	861	440	e2500	1580	1360	3000	1960	832	488	542
14	675	388	860	437	e2500	1610	1430	2890	1920	798	500	536
15	598	385	848	447	e2450	1650	1470	2810	2000	744	498	532
16	563	387	e870	493	e2450	1430	1500	2770	1980	711	539	527
17	510	400	e890	469	e2650	1390	1730	2800	1990	752	579	515
18	517	390	889	637	e2650	1560	1860	2930	2010	713	583	516
19	501	382	890	713	2560	1700	2060	2960	2050	663	583	520
20	503	405	881	856	2550	1730	2330	3030	2000	629	580	512
21	468	393	e860	988	2550	1700	2690	3120	1980	601	578	489
22	452	422	e860	1140	2510	1700	2860	3320	1890	573	567	492
23	448	458	e860	1620	2440	1710	2720	3430	1850	591	558	506
24	452	649	e860	1940	2370	1580	2660	3580	1830	569	558	501
25	469	535	e860	1700	2380	1660	2750	3840	1750	558	543	482
26	457	511	880	1510	2350	1850	2930	4000	1640	535	532	478
27	434	498	878	1420	2360	1920	2850	4010	1550	519	539	476
28	417	495	859	1330	2460	1860	2590	3740	1480	508	529	472
29	411	502	585	1040	---	1830	2390	3420	1420	501	522	471
30	418	757	537	1020	---	1810	2280	3200	1390	519	522	468
31	395	---	526	1010	---	1720	---	3190	---	519	534	---
TOTAL	17513	13181	26521	24444	59280	60940	55620	91100	61050	24838	16553	15506
MEAN	565	439	856	789	2117	1966	1854	2939	2035	801	534	517
MAX	693	757	1050	1940	2990	3030	2930	4010	3060	1350	583	550
MIN	395	355	526	427	786	1390	1080	2240	1390	501	488	468
AC-FT	34740	26140	52600	48480	117600	120900	110300	180700	121100	49270	32830	30760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	MEAN	276	281	723	1607	1285	1380	1361	2073	1684	787	459	369
MAX	565	487	2124	6233	3291	2313	1961	2939	2934	1537	763	602	
(WY)	1999	1997	1997	1997	1997	1997	1998	1999	1998	1995	1995	1998	
MIN	14.9	39.2	109	121	142	285	781	1393	510	63.8	18.0	13.5	
(WY)	1995	1994	1995	1994	1994	1994	1994	1994	1994	1994	1994	1994	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

ANNUAL TOTAL	437219	466546											
ANNUAL MEAN	1198	1278								1061			
HIGHEST ANNUAL MEAN										1707		1997	
LOWEST ANNUAL MEAN										297		1994	
HIGHEST DAILY MEAN	4290	Jun 14	4010	May 27	15200	Jan 2	1997						
LOWEST DAILY MEAN	355	Nov 10	355	Nov 10	2.4	Oct 30	1994						
ANNUAL SEVEN-DAY MINIMUM	384	Nov 10	384	Nov 10	3.3	Oct 29	1994						
INSTANTANEOUS PEAK FLOW			4400	May 27	17600	Jan 2	1997						
INSTANTANEOUS PEAK STAGE			9.50	May 27	15.85	Jan 2	1997						
ANNUAL RUNOFF (AC-FT)	867200	925400	768400										
10 PERCENT EXCEEDS	2560	2650	2490										
50 PERCENT EXCEEDS	803	878	558										
90 PERCENT EXCEEDS	430	439	89										

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10347460 TRUCKEE RIVER NEAR MOGUL, NV--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	.03	.00	.00	.00	---	.00	.00	.00	.00	.00	---
2	---	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
3	---	.00	.06	.00	.00	---	.03	.00	.00	.00	.00	.00
4	---	.00	.00	.00	.00	---	.00	.00	.01	.00	.00	.00
5	---	.01	.00	.00	.00	---	.01	.00	.00	.00	.00	.00
6	---	.00	.00	.00	.05	---	.04	.00	.00	.00	.09	.00
7	---	.01	.00	.00	.29	---	.00	.00	.00	.00	.02	.00
8	---	.01	.00	.00	.29	---	.01	.00	.00	.00	.00	.00
9	---	.00	.00	.00	.36	---	.00	.00	.00	.00	.01	.01
10	---	.03	.00	.00	.01	---	.00	.00	.00	.00	.08	.00
11	---	.00	.00	.00	---	.00	.01	.00	.00	.00	.00	.00
12	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
13	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
14	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
15	---	.00	.00	.08	---	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
17	.00	.05	.00	.01	---	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.20	---	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.32	---	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.13	---	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	---	.00
22	.00	.07	.00	.02	---	.00	1.00	.00	.00	.00	---	.00
23	.00	.25	.00	.13	---	.00	.00	.00	.00	.00	---	.00
24	.02	.00	.00	.00	---	.00	.00	.01	.00	.00	---	.00
25	.02	.00	.00	.01	---	.00	.00	.00	.00	.00	---	.00
26	.01	.00	.00	.00	---	.00	.00	.00	.00	.00	---	.00
27	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	---	.00
28	.00	.02	.00	.00	---	.00	.02	.00	.00	.00	---	.00
29	.05	.06	.00	.00	---	.00	.08	.00	.00	.00	---	.00
30	.00	.14	.00	.00	---	.00	.00	.00	.00	.00	---	.00
31	.00	---	.00	.00	---	.02	---	.00	---	.00	---	---
TOTAL	---	0.68	0.06	0.90	---	---	1.20	0.01	0.01	0.00	---	---

PYRAMID AND WINNEMUCCA LAKES BASIN

10348000 TRUCKEE RIVER AT RENO, NV

LOCATION.--(REVISED) Prior to July 30, 1999, at site 0.5 mi downstream. Lat 39°31'49", long 119°47'41", in SW 1/4 NE 1/4 sec.12, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, adjacent to Scott Island, 700 ft downstream from Kirman Avenue bridge, 0.4 mi upstream from Kietzke Lane bridge, 5.4 mi upstream from Steamboat Creek, and at mi 59.52 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,067 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.

REVISED RECORDS.--WDR NV-97-1: 1996.

GAGE.--Water-stage recorder. Datum of gage is 4,444.53 ft above sea level. July 1906 to September 1946, staff gages at sites 0.5 mi to 1.0 mi upstream at different datums. January 1946 to July 1999 at site 0.5 mi downstream, at datum 12.56 ft lower.

REMARKS.--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 (station 10338400) and Independence (station 10342900) Lakes, and several power plants. Many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft³/s, December 23, 1955, gage height, 13.63 ft; maximum gage height 14.94 ft, January 2, 1997; no flow September 12, 14-24, 26-30, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,410 ft³/s, May 27, gage height, 7.60 ft; minimum daily, 327 ft³/s, November 4.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	685	368	832	411	915	2670	1470	2190	3080	1250	413	417
2	646	363	752	362	901	2680	1290	2350	2750	1230	416	426
3	640	338	870	351	878	2920	1280	2260	2350	1210	417	432
4	635	327	953	357	902	2930	1240	2170	2130	1150	392	440
5	629	341	1000	360	773	2820	1190	2090	2180	1090	419	438
6	633	420	1020	346	721	2210	1090	2130	2300	975	445	440
7	628	383	949	375	1180	2170	1050	2320	2290	937	459	441
8	610	385	871	374	1690	2060	1120	2380	2110	909	444	442
9	620	348	868	356	2720	1940	1190	2320	2150	915	434	440
10	621	333	841	342	2870	1900	1200	2250	2120	864	464	450
11	631	384	833	335	2680	1890	1200	2330	2150	850	432	446
12	635	388	827	340	2460	1800	1230	2690	2010	817	403	431
13	630	383	824	374	2430	1490	1280	2890	1860	771	386	448
14	625	371	824	371	2400	1500	1350	2770	1810	741	396	440
15	563	360	811	365	2360	1510	1380	2670	1880	690	392	435
16	517	363	808	419	2340	1330	1390	2630	1840	659	425	437
17	474	384	813	400	2550	1280	1580	2680	1860	688	445	427
18	466	372	808	575	2530	1410	1720	2820	1880	658	449	436
19	423	349	806	734	2460	1540	1930	2850	1940	605	447	442
20	418	379	807	913	2430	1580	2220	2920	1890	556	444	434
21	393	368	e770	919	2450	1540	2610	3000	1880	520	444	425
22	377	404	e770	1040	2410	1530	2800	3220	1770	483	435	422
23	374	462	e770	1450	2340	1540	2650	3340	1710	512	440	433
24	378	688	e770	1790	2250	1440	2570	3510	1700	489	441	440
25	408	552	e770	1560	2280	1500	2660	3810	1630	476	428	416
26	406	515	786	1380	2230	1690	2870	4030	1520	447	413	439
27	376	498	786	1290	2230	1830	2800	4050	1440	420	429	428
28	354	487	787	1230	2330	1750	2520	3740	1370	412	429	425
29	349	483	557	958	---	1720	2350	3420	1320	400	424	427
30	364	712	496	935	---	1710	2180	3160	1280	410	426	436
31	341	---	480	929	---	1620	---	3160	---	413	418	---
TOTAL	15849	12508	24859	21941	56710	57500	53410	88150	58200	22547	13249	13033
MEAN	511	417	802	708	2025	1855	1780	2844	1940	727	427	434
MAX	685	712	1020	1790	2870	2930	2870	4050	3080	1250	464	450
MIN	341	327	480	335	721	1280	1050	2090	1280	400	386	416
AC-FT	31440	24810	49310	43520	112500	114100	105900	174800	115400	44720	26280	25850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1999, BY WATER YEAR (WY)

	MEAN	278	421	571	680	753	917	1250	1540	1086	435	255	250
MAX	977	2513	3638	6177	3336	4448	4138	5679	4883	2500	1261	1302	
(WY)	1908	1984	1984	1997	1997	1986	1907	1952	1983	1983	1907	1983	
MIN	27.7	36.1	53.9	64.9	85.5	127	198	95.4	44.7	16.0	10.4	5.03	
(WY)	1993	1933	1933	1933	1933	1933	1977	1934	1931	1931	1931	1926	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1907 - 1999
ANNUAL TOTAL	414828	437956	
ANNUAL MEAN	1137	1200	706
HIGHEST ANNUAL MEAN			2350
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	4430	4050	16200
LOWEST DAILY MEAN	327	327	.00
ANNUAL SEVEN-DAY MINIMUM	349	349	.00
INSTANTANEOUS PEAK FLOW		4410	20800
INSTANTANEOUS PEAK STAGE		7.60	14.94
ANNUAL RUNOFF (AC-FT)	822800	868700	511200
10 PERCENT EXCEEDS	2520	2590	1750
50 PERCENT EXCEEDS	762	824	383
90 PERCENT EXCEEDS	370	381	114

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10348200 TRUCKEE RIVER NEAR SPARKS, NV

LOCATION.--Lat 39°31'11", long 119°44'27", in NW ¼ NE ¼ sec.16, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on left bank, 400 ft upstream from McCarran Boulevard bridge, 1 mi south of Southern Pacific Railroad in Sparks, 2.5 mi upstream from Steamboat Creek, and at mi 56.15 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,070 mi², approximately.

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 (station 10338400) and Independence (station 10342900) Lakes, and several powerplants. Many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 18,000 ft³/s (comparison with upstream and downstream stations), January 2, 1997, recorded gage height, 17.06 ft (flow overbank and around gage); no flow many days August, September, and October 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,220 ft³/s, May 27, gage height, 9.52 ft; minimum daily, 332 ft³/s, August 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	381	790	416	887	2770	1500	2240	3190	1190	354	384
2	599	378	707	375	870	2790	1290	2410	2820	1150	354	370
3	590	354	809	365	847	3040	1280	2330	2420	1130	356	371
4	581	346	894	370	870	3070	1240	2230	2190	1070	335	373
5	575	358	943	373	752	3020	1180	2140	2240	993	358	370
6	578	420	960	361	699	2330	1060	2180	2360	876	390	370
7	574	392	895	383	1170	2270	1020	2370	2350	836	422	367
8	559	393	814	384	1750	2170	1090	2430	2140	804	390	367
9	566	365	808	369	2910	2040	1170	2370	2190	812	374	370
10	559	349	785	359	3000	1990	1180	2300	2160	755	401	371
11	568	391	778	352	2800	1970	1190	2380	2180	743	379	366
12	571	395	770	356	2550	1890	1230	2750	2040	712	348	353
13	567	391	768	383	2520	1520	1280	2980	1870	676	332	366
14	562	382	769	384	2500	1530	1350	2860	1810	642	342	370
15	511	373	757	377	2450	1540	1390	2740	1890	588	336	348
16	470	374	752	420	2430	1350	1400	2710	1850	560	365	352
17	434	389	758	408	2660	1280	1600	2760	1870	588	382	338
18	443	385	753	550	2630	1430	1760	2910	1890	565	388	346
19	421	367	750	704	2550	1580	1980	2930	1960	516	383	381
20	414	390	746	885	2540	1620	2300	3010	1910	470	379	368
21	395	384	e710	880	2540	1580	2680	3090	1890	441	378	372
22	384	408	e740	998	2510	1560	2880	3360	1780	412	368	363
23	382	456	e740	1450	2450	1580	2710	3530	1710	430	374	373
24	385	666	e740	1870	2350	1450	2650	3750	1690	409	375	384
25	411	538	e750	1610	2380	1520	2740	e4050	1620	400	367	365
26	411	507	748	1400	2330	1720	2980	e4250	1500	374	345	386
27	386	490	733	1310	2320	1880	2900	e4250	1400	353	364	373
28	367	477	736	1240	2410	1800	2570	e3950	1320	345	361	362
29	364	469	540	944	---	1760	2420	3620	1270	335	359	345
30	377	661	482	915	---	1750	2230	3290	1230	351	360	346
31	359	---	472	905	---	1660	---	3300	---	363	375	---
TOTAL	14993	12629	23397	22096	58675	59460	54250	91470	58740	19889	11394	10970
MEAN	484	421	755	713	2096	1918	1808	2951	1958	642	368	366
MAX	630	666	960	1870	3000	3070	2980	4250	3190	1190	422	386
MIN	359	346	472	352	699	1280	1020	2140	1230	335	332	338
AC-FT	29740	25050	46410	43830	116400	117900	107600	181400	116500	39450	22600	21760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1999, BY WATER YEAR (WY)

	MEAN	239	452	660	813	934	1153	1208	1628	1096	448	231	252
MAX	728	2573	3716	6500	3342	4590	3104	3965	5039	2586	802	1199	
(WY)	1983	1984	1984	1997	1997	1986	1983	1982	1983	1983	1983	1983	
MIN	2.53	33.9	54.2	71.6	66.4	218	225	132	30.7	27.6	.27	.000	
(WY)	1995	1991	1991	1991	1991	1992	1992	1992	1992	1992	1994	1994	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR				FOR 1999 WATER YEAR				WATER YEARS 1977 - 1999			
ANNUAL TOTAL	412137				437963							
ANNUAL MEAN	1129				1200				770			
HIGHEST ANNUAL MEAN									2373			1983
LOWEST ANNUAL MEAN									88.7			1992
HIGHEST DAILY MEAN	4250			Mar 24	4250			May 26	15000			Jan 2 1997
LOWEST DAILY MEAN	300			Aug 27	332			Aug 13	.00			Aug 13 1992
ANNUAL SEVEN-DAY MINIMUM	327			Aug 25	350			Jul 29	.00			Sep 4 1992
INSTANTANEOUS PEAK FLOW					5220			May 27	18000			Jan 2 1997
INSTANTANEOUS PEAK STAGE					9.52			May 27	17.06			Jan 2 1997
ANNUAL RUNOFF (AC-FT)	817500				868700				557800			
10 PERCENT EXCEEDS	2560				2670				2230			
50 PERCENT EXCEEDS	740				758				330			
90 PERCENT EXCEEDS	368				364				72			

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10348300 NORTH TRUCKEE DRAIN AT KLEPPE LANE NEAR SPARKS, NV

LOCATION.--Lat 39°31'36", long 119°42'30", in NE 1/4 SW 1/4 sec.11, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank, 0.2 mi above Kleppe Lane bridge in Sparks.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1992 to December 1996, January 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,390 ft above sea level, from topographic map. Gage formerly operated by Federal Court Watermaster at site 0.2 mi downstream.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Orr Ditch, many diversions in Spanish Springs Valley, and by pumping from the Helms Pit. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670 ft³/s, May 18, 1996, gage height, 7.74 ft; maximum gage height, 8.57 ft, backwater from Truckee River; minimum daily, 1.2 ft³/s, December 27, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 120 ft³/s, August 7, gage height, 4.58 ft; maximum gage height, 6.31 ft, February 9, backwater from Truckee River; minimum daily, 4.0 ft³/s, April 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	8.5	5.8	5.6	e8.0	7.7	e7.0	e19	22	37	46
2	18	7.3	15	5.5	5.3	e8.0	13	e7.0	e20	22	42	47
3	15	7.0	21	5.4	5.4	e8.0	5.6	e7.0	e20	13	43	45
4	13	6.8	23	5.6	5.1	e8.0	4.7	e7.0	21	12	41	44
5	13	7.9	23	9.9	4.8	e8.0	10	e7.0	15	13	32	42
6	13	7.0	24	17	4.7	e8.0	13	e7.0	e18	21	41	40
7	11	7.4	23	12	8.7	e9.0	5.9	e7.0	e20	24	51	e39
8	11	7.6	21	8.6	e10	e13	8.6	e8.0	23	25	35	e45
9	9.5	7.7	21	16	e30	18	7.7	e9.0	15	22	39	e45
10	9.2	7.4	20	16	e27	16	5.3	e11	20	17	56	e45
11	9.0	9.6	20	10	e23	16	5.3	21	20	19	47	e37
12	9.1	7.4	15	5.3	e20	13	7.5	e20	14	22	45	30
13	9.1	7.3	7.2	5.1	e16	5.0	4.7	e19	15	25	45	32
14	8.7	7.3	14	5.1	e12	5.0	7.9	e19	22	32	45	31
15	8.3	7.5	21	5.7	e8.0	11	9.0	e19	20	27	46	33
16	8.2	8.7	16	6.1	e8.0	16	4.4	e19	17	20	47	33
17	7.5	9.7	6.9	5.7	e8.0	9.6	4.3	e19	19	15	46	43
18	7.3	9.6	6.7	16	e8.0	4.9	4.2	e19	17	17	45	52
19	6.8	8.8	6.7	18	e8.0	5.0	e4.5	e19	16	20	45	51
20	6.5	8.6	6.7	34	e8.0	5.1	e4.0	e19	15	21	47	51
21	6.8	8.4	e6.2	28	e8.0	5.0	e4.0	e19	19	19	49	47
22	6.6	7.4	e5.7	26	e8.0	6.2	e5.0	e19	30	24	44	47
23	7.2	14	e5.5	26	e9.0	4.6	e5.0	e19	30	27	35	32
24	7.1	13	e5.3	14	e16	10	e5.0	e19	15	15	43	19
25	7.7	7.0	e5.6	13	e16	12	e6.0	e19	19	15	45	21
26	7.1	6.9	5.7	16	e16	7.1	e6.0	e19	16	19	44	15
27	7.5	6.7	6.3	22	e16	4.4	e6.0	e19	19	24	44	12
28	8.5	6.8	11	20	e11	4.3	e7.0	e19	21	40	43	13
29	17	6.6	18	19	---	9.5	e7.0	e19	20	30	42	12
30	8.6	7.0	19	12	---	7.5	e7.0	e19	23	23	43	11
31	7.5	---	15	5.8	---	5.4	---	e19	---	36	43	---
TOTAL	303.8	247.4	423.0	414.6	325.6	270.6	195.3	479.0	578	681	1350	1060
MEAN	9.80	8.25	13.6	13.4	11.6	8.73	6.51	15.5	19.3	22.0	43.5	35.3
MAX	19	14	24	34	30	18	13	21	30	40	56	52
MIN	6.5	6.6	5.3	5.1	4.7	4.3	4.0	7.0	14	12	32	11
AC-FT	603	491	839	822	646	537	387	950	1150	1350	2680	2100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999
MEAN	13.7	13.2	16.0	13.7	15.1	20.6	17.6
MAX	30.7	26.2	33.4	17.5	30.3	42.4	23.2
(WY)	1997	1997	1997	1996	1996	1995	1998
MIN	9.62	8.16	8.77	11.2	10.9	8.73	6.51
(WY)	1996	1995	1995	1994	1994	1999	1999

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

ANNUAL TOTAL	6328.3	
ANNUAL MEAN	17.3	20.1
HIGHEST ANNUAL MEAN		27.1
LOWEST ANNUAL MEAN		14.8
HIGHEST DAILY MEAN	56	316
LOWEST DAILY MEAN	4.0	1.2
ANNUAL SEVEN-DAY MINIMUM	4.3	4.3
INSTANTANEOUS PEAK FLOW	120	670
INSTANTANEOUS PEAK STAGE	6.31	8.57
ANNUAL RUNOFF (AC-FT)	12550	14580
10 PERCENT EXCEEDS	42	34
50 PERCENT EXCEEDS	14	17
90 PERCENT EXCEEDS	5.6	8.0

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10348460 FRANKTOWN CREEK NEAR CARSON CITY, NV

LOCATION.--Lat 39°12'12", long 119°52'17", in SW 1/4 SE 1/4 sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050102, in Toiyabe National Forest, on right bank, 300 ft upstream from Red House diversion dam, 0.2 mi upstream from Red House, and 6.1 mi northwest of Carson City.

DRAINAGE AREA.--3.24 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 fair except for estimated daily discharges, which are poor. Flow regulated by Hobart Reservoir, and by pumping from Marlette Lake (station 10336710) during dry years. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

REVISIONS.--WDR NV-94-1: 1980 (P), 1982-1985(P).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89 ft³/s, February 16, 1986, gage height, 3.64 ft; minimum daily, 0.48 ft³/s, September 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s, May 25, gage height, 2.41 ft; minimum daily, 2.5 ft³/s, April 10-11.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.7	5.0	2.8	2.8	2.9	2.8	6.0	14	9.1	e4.1	3.8
2	3.4	3.8	4.0	2.8	2.7	2.7	2.6	7.0	14	8.8	e4.0	3.9
3	3.2	3.4	4.3	2.8	2.7	2.9	2.9	5.7	12	8.5	e4.0	3.8
4	3.2	3.3	3.9	2.8	2.7	2.7	2.7	5.0	11	8.4	e4.0	3.7
5	3.2	3.2	e3.9	2.8	2.6	2.6	2.9	5.9	11	8.1	4.3	3.6
6	3.2	3.2	3.9	2.8	e2.8	2.6	3.1	8.0	13	7.6	5.4	3.4
7	3.1	3.6	3.5	2.8	e3.0	2.6	2.7	9.3	13	7.4	6.0	3.4
8	2.9	3.4	3.5	2.9	e3.0	2.6	2.8	9.0	13	7.2	5.2	3.4
9	2.9	3.2	3.4	2.9	e3.0	2.9	2.6	8.1	13	7.1	5.0	3.4
10	3.0	3.4	3.4	3.0	e3.2	2.6	2.5	7.9	13	7.0	6.4	3.6
11	3.0	3.8	3.2	2.9	3.0	2.6	2.5	8.7	13	6.8	6.0	3.6
12	2.9	3.5	3.1	2.9	3.1	2.6	2.7	12	14	6.5	5.0	3.5
13	2.9	3.5	3.2	2.9	2.8	2.7	3.5	10	14	6.7	4.6	3.4
14	2.9	3.6	3.3	2.9	2.7	2.8	4.1	9.0	14	6.5	4.3	3.3
15	3.0	3.5	3.1	3.2	2.6	2.8	4.1	8.4	14	5.9	4.3	3.2
16	3.0	3.5	3.0	3.6	2.8	2.7	4.7	8.7	13	5.6	4.2	3.2
17	3.0	4.0	3.1	3.1	3.2	2.9	5.9	11	13	5.5	4.1	3.3
18	3.0	3.7	3.1	4.5	2.9	3.1	7.0	11	13	5.5	4.0	3.4
19	3.0	3.5	3.4	4.3	2.8	3.3	8.1	11	12	5.5	4.0	3.7
20	3.0	3.3	e3.4	e4.1	2.7	3.1	8.4	12	11	5.4	3.8	3.7
21	3.0	3.3	e3.2	e3.9	3.4	2.9	7.2	12	11	e5.0	3.7	3.4
22	3.0	3.9	2.9	e3.7	2.7	2.9	5.8	13	10	e4.9	3.9	3.4
23	3.0	4.4	3.2	e3.5	2.6	3.0	4.2	14	9.9	e4.8	4.2	3.5
24	3.3	4.3	2.7	e3.3	2.6	3.0	3.8	15	9.8	e4.7	3.9	3.5
25	3.6	3.9	2.9	3.2	3.0	3.1	5.5	18	9.7	e4.6	3.7	3.4
26	3.8	3.6	3.0	e3.2	2.6	3.7	7.1	17	9.6	e4.5	3.8	3.4
27	3.9	3.5	2.9	e3.1	2.6	3.9	6.3	17	9.6	e4.5	4.0	3.4
28	3.7	3.5	2.9	e3.0	2.7	3.5	5.7	17	10	e4.4	3.8	3.3
29	3.9	4.1	3.0	2.9	---	3.3	4.5	15	9.9	e4.3	3.5	3.3
30	3.6	6.3	2.9	2.8	---	3.2	4.4	14	9.5	e4.2	3.5	3.3
31	3.4	---	2.9	2.9	---	3.5	---	14	---	e4.2	3.8	---
TOTAL	99.9	111.9	103.2	98.3	79.3	91.7	133.1	339.7	357.0	189.2	134.5	104.2
MEAN	3.22	3.73	3.33	3.17	2.83	2.96	4.44	11.0	11.9	6.10	4.34	3.47
MAX	3.9	6.3	5.0	4.5	3.4	3.9	8.4	18	14	9.1	6.4	3.9
MIN	2.9	3.2	2.7	2.8	2.6	2.6	2.5	5.0	9.5	4.2	3.5	3.2
AC-FT	198	222	205	195	157	182	264	674	708	375	267	207

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1999, BY WATER YEAR (WY)

	MEAN	2.29	2.45	2.33	2.53	2.94	2.89	5.09	8.64	7.07	3.43	2.36	2.14
MAX	5.42	6.55	5.83	8.74	10.3	6.10	13.2	20.7	27.4	11.7	7.22	5.06	
(WY)	1984	1984	1984	1997	1986	1986	1997	1997	1983	1983	1983	1983	
MIN	.97	.94	1.08	1.01	1.04	1.29	2.09	1.08	.93	.86	.67	.70	
(WY)	1982	1991	1995	1995	1992	1991	1991	1992	1992	1977	1977	1977	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1974 - 1999
ANNUAL TOTAL	2233.9	1842.0	
ANNUAL MEAN	6.12	5.05	3.69
HIGHEST ANNUAL MEAN			7.67
LOWEST ANNUAL MEAN			1.45
HIGHEST DAILY MEAN	25 Jun 7	18 May 25	65 Feb 16 1986
LOWEST DAILY MEAN	2.4 Aug 21	2.5 Apr 10	.48 Sep 9 1976
ANNUAL SEVEN-DAY MINIMUM	2.4 Aug 21	2.6 Mar 5	.49 Sep 13 1976
INSTANTANEOUS PEAK FLOW		29 May 25	89 Feb 16 1986
INSTANTANEOUS PEAK STAGE		2.41 May 25	3.64 Feb 16 1986
ANNUAL RUNOFF (AC-FT)	4430	3650	2680
10 PERCENT EXCEEDS	13	11	7.8
50 PERCENT EXCEEDS	4.3	3.5	2.4
90 PERCENT EXCEEDS	2.9	2.8	1.2

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10348700 WASHOE LAKE NEAR CARSON CITY, NV

LOCATION.--Lat 39°14'08", long 119°46'02", in NE 1/4 SE 1/4 sec.19, T.16 N., R.20 E., Washoe County, Hydrologic Unit 16050102, at Washoe Lake State Park, and 4.75 mi north of Carson City.

DRAINAGE AREA.--83.8 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 1990 to February 1995 (monthend contents only), October 1982 to June 30, 1988, February 19 to July 17, and September 1-30, 1989, November 17, 1989 to February 21, 1990, March 24, 1995 to current year (daily elevations).

GAGE.--Water-stage recorder. Datum of gage is above 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 5,032.7 ft. Figures given herein represent total contents including Scripps Wildlife Management Area Marsh. Two transarea diversions enter the lakes, one from Galena Creek and one from Third Creek into Ophir Creek. Franktown Creek is diverted into the Virginia City-Carson City pipeline and during dry years additional water is pumped from Marlette Lake into Hobart Reservoir and released into Franktown Creek for diversion into the Virginia City-Carson City pipeline at Red House. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5,032.62 ft³/s, January 28 1997; no contents at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5,030.57 ft, March 30, but may have been higher during periods of no elevation record; minimum, 5027.54 ft, September 30.

Capacity table (elevation, in feet, and volume, in acre-feet)												
5,018	100	5,022	7,000	5,026	21,700	5,030	43,300					
5,019	800	5,023	10,000	5,027	26,600	5,031	49,200					
5,020	2,200	5,024	13,400	5,028	32,000	5,032	55,700					
5,021	4,300	5,025	17,300	5,029	37,400	5,032.7	60,600					

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999 DAILY OBSERVATION AT 2400 HOURS												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5028.44	5028.40	---	---	5029.87	5030.60	5030.32	5030.34	---	5029.90	5028.99	5028.19
2	5028.44	5028.40	---	---	5029.88	5030.50	5030.32	5030.29	5030.30	5029.81	5028.93	5028.16
3	5028.46	5028.40	---	---	5029.88	5030.63	5030.35	5030.34	5030.31	5029.78	5028.91	5028.15
4	5028.46	5028.38	---	---	5029.90	5030.60	5030.24	5030.32	5030.31	5029.77	5028.85	5028.13
5	5028.44	5028.44	---	---	5029.88	5030.58	5030.33	5030.32	5030.29	5029.76	5028.82	5028.11
6	5028.42	5028.43	---	---	5029.91	5030.58	5030.34	5030.30	5030.30	5029.70	5028.83	5028.08
7	5028.42	5028.47	---	---	5030.19	5030.52	5030.35	5030.32	5030.29	5029.68	5028.79	5028.06
8	5028.41	5028.47	---	---	5030.32	5030.51	5030.35	5030.34	5030.28	5029.65	5028.78	5028.03
9	5028.40	5028.49	---	---	5030.54	5030.54	5030.34	5030.31	5030.28	5029.64	5028.76	5027.98
10	5028.39	5028.51	---	---	5030.54	5030.54	5030.34	5030.33	5030.26	5029.61	5028.74	5027.97
11	5028.40	5028.52	---	---	5030.51	5030.53	5030.33	5030.32	5030.26	5029.58	5028.74	5027.94
12	5028.38	5028.54	---	---	5030.54	5030.52	5030.33	5030.25	5030.26	5029.58	5028.68	5027.93
13	5028.38	5028.56	---	---	5030.51	5030.48	5030.34	5030.30	5030.24	5029.55	5028.67	5027.90
14	5028.37	5028.57	---	---	5030.54	5030.50	5030.32	5030.28	5030.22	5029.52	5028.68	5027.86
15	5028.39	5028.58	---	---	5030.55	5030.49	5030.32	5030.29	5030.22	5029.48	5028.62	5027.85
16	5028.33	5028.64	---	---	5030.56	5030.48	5030.31	5030.28	5030.21	5029.45	5028.61	5027.83
17	5028.34	5028.57	---	---	5030.62	5030.46	5030.31	5030.26	5030.17	5029.41	5028.57	5027.81
18	5028.34	5028.60	---	---	5030.62	5030.47	5030.29	5030.26	5030.19	5029.38	5028.56	5027.79
19	5028.33	5028.61	---	---	5030.61	5030.46	5030.31	5030.25	5030.17	5029.36	5028.52	5027.77
20	5028.33	5028.62	---	---	5030.58	5030.44	5030.34	5030.26	5030.12	5029.33	5028.48	5027.76
21	5028.33	5028.67	---	---	5030.58	5030.44	5030.32	5030.27	5030.14	5029.30	5028.46	5027.74
22	5028.33	5028.66	---	5029.70	5030.62	5030.41	5030.35	5030.27	5030.12	5029.28	5028.43	5027.72
23	5028.32	5028.70	---	5029.83	5030.58	5030.42	5030.33	5030.28	5030.11	5029.23	5028.42	5027.71
24	---	5028.69	---	5029.83	5030.52	5030.39	5030.34	5030.31	5030.07	5029.22	5028.39	5027.69
25	---	5028.74	---	5029.83	5030.60	5030.39	5030.34	5030.31	5030.05	5029.19	5028.36	5027.68
26	5028.36	5028.75	---	5029.87	5030.61	5030.39	5030.34	5030.33	5030.01	5029.18	5028.33	5027.66
27	5028.37	5028.76	---	5029.87	5030.54	5030.37	5030.34	5030.33	5029.98	5029.15	5028.30	5027.61
28	---	5028.77	---	5029.86	5030.57	5030.35	5030.35	5030.28	5029.97	5029.12	5028.29	5027.59
29	---	5028.78	---	5029.86	---	5030.32	5030.36	5030.33	5029.94	5029.09	5028.19	5027.57
30	5028.42	5028.81	---	5029.86	---	5030.30	5030.31	5030.34	5029.91	5029.04	5028.23	5027.57
31	---	---	---	5029.88	---	5030.32	---	5030.33	---	5029.01	5028.20	---
MAX	---	5028.81	---	---	5030.62	5030.63	5030.36	5030.34	---	5029.90	5028.99	5028.19
MIN	---	5028.38	---	---	5029.87	5030.30	5030.24	5030.25	---	5029.01	5028.19	5027.57

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)." See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,031.8 ft³/s, April 1, 1986; no contents September 13 to December 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5,030.5 ft, March 1; minimum observed, 5,027.4 ft, September 30.

MONTHEND ELEVATION, IN FEET ABOVE SEA LEVEL, AND TOTAL CONTENTS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
September 30.....	5028.4	554	--
October 31.....	5028.3	533	-21
November 30.....	5028.7	577	+44
December 31.....	5029.1	660	+83
CALENDAR YEAR 1998.....	--	--	+149
January 31.....	5029.8	730	+70
February 28.....	5030.5	792	+62
March 31.....	5030.2	767	-25
April 30.....	5030.2	767	0
May 31.....	5030.2	767	0
June 30.....	5029.8	730	-37
July 31.....	5028.9	600	-130
August 31.....	5028.1	511	-89
September 30.....	5027.4	440	-71
WATER YEAR 1999.....	--	--	-114

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

PYRAMID AND WINNEMUCCA LAKES BASIN
10348850 GALENA CREEK AT GALENA STATE PARK, NV

LOCATION.--Lat 39°21'16", long 119°51'27", in SE 1/4 NW 1/4 sec.9, T.17 N., R.19 E., Washoe County, Hydrologic Unit 16050102, on right bank, at Galena State Park, 0.2 mi west of State Highway 431, and 3.5 mi northwest of Washoe City.

DRAINAGE AREA.--7.69 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. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft³/s, January 2, 1997, gage height, 5.54 ft, from slope-area measurement of peak flow; minimum daily, 2.6 ft³/s, September 4, 14-16, 18-20, 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)
May 26	1800	*123	*6.47	Jul 23	1815	56	6.12
Jun 24	1130	82	6.28				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	10	7.7	e7.1	8.9	e9.1	19	68	29	15	10
2	9.6	9.2	9.6	7.6	7.2	8.6	9.1	19	58	27	14	9.9
3	9.4	9.6	9.6	7.6	7.1	9.1	e9.1	18	49	26	13	9.7
4	9.3	9.4	e9.4	7.6	6.9	8.3	e9.1	18	43	25	14	9.7
5	9.2	9.1	e9.3	7.7	6.9	8.0	9.2	19	47	24	13	9.3
6	9.1	8.8	e9.2	7.6	6.9	7.9	9.1	25	48	21	16	9.0
7	8.9	8.6	e9.0	7.6	7.5	7.8	9.0	26	38	20	16	9.0
8	8.6	9.2	e8.8	7.5	e6.9	7.9	e8.8	28	42	22	14	8.8
9	8.5	e9.4	e8.7	7.5	e6.9	8.0	e8.8	27	44	20	14	9.2
10	8.5	9.5	8.7	7.5	e7.0	e7.8	e8.6	29	47	18	16	9.5
11	8.7	9.5	8.7	7.5	e7.0	7.5	8.6	29	46	20	14	9.2
12	8.5	e9.6	8.7	7.5	7.0	7.4	9.2	31	49	25	13	9.0
13	8.5	9.7	8.6	7.4	6.9	7.8	11	31	53	21	12	8.9
14	8.9	9.8	8.5	7.5	6.9	7.9	11	26	56	19	12	8.8
15	8.9	9.5	8.5	7.9	6.9	8.1	12	24	51	17	13	8.8
16	8.8	9.4	8.5	7.7	7.1	8.5	13	27	56	16	13	8.9
17	8.7	9.5	8.6	7.7	7.2	9.5	14	29	57	23	12	9.0
18	8.9	9.3	8.5	9.6	7.1	10	17	31	51	18	11	9.5
19	9.9	e9.1	e8.5	7.9	6.9	9.2	20	34	53	17	10	9.4
20	9.8	e9.1	e8.4	e6.6	6.9	9.3	21	35	50	16	9.8	9.2
21	9.3	9.1	e8.4	e6.9	6.9	8.9	22	38	47	17	9.5	9.0
22	8.3	9.1	e8.4	7.0	6.8	8.5	17	48	45	18	10	9.1
23	8.3	11	e8.3	e7.3	6.9	8.7	15	52	53	21	10	9.4
24	8.5	e8.8	e8.3	e6.9	6.9	8.9	14	55	58	26	10	9.1
25	8.9	e9.3	8.3	7.1	7.0	9.8	18	76	59	26	9.9	8.9
26	9.5	9.4	8.3	7.1	6.8	11	22	86	49	19	9.5	8.9
27	9.7	9.2	8.2	7.0	7.0	11	21	88	41	16	9.6	8.9
28	9.4	9.1	8.1	e7.1	7.9	10	19	98	36	15	9.5	8.9
29	9.3	9.7	8.1	7.0	---	10	19	78	33	15	9.5	8.8
30	9.3	12	8.0	7.1	---	9.8	20	76	32	15	9.4	8.7
31	9.3	---	7.8	7.0	---	e9.3	---	71	---	15	10	---
TOTAL	280.5	284.0	268.0	230.7	196.5	273.4	413.7	1291	1459	627	371.7	274.5
MEAN	9.05	9.47	8.65	7.44	7.02	8.82	13.8	41.6	48.6	20.2	12.0	9.15
MAX	10	12	10	9.6	7.9	11	22	98	68	29	16	10
MIN	8.3	8.6	7.8	6.6	6.8	7.4	8.6	18	32	15	9.4	8.7
AC-FT	556	563	532	458	390	542	821	2560	2890	1240	737	544

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

	7.45	7.53	6.78	15.7	7.00	8.49	13.9	23.3	26.7	16.2	9.02	7.19
MEAN												
MAX	15.9	17.3	12.3	151	13.6	17.1	25.0	48.3	58.5	48.0	25.8	15.6
(WY)	1985	1985	1985	1997	1997	1997	1997	1996	1996	1995	1995	1995
MIN	4.05	4.53	4.47	3.86	4.06	5.24	5.04	7.31	4.98	4.46	3.40	3.03
(WY)	1993	1991	1992	1993	1993	1991	1991	1992	1992	1992	1988	1991

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1985 - 1999

ANNUAL TOTAL	5453.5	5970.0	
ANNUAL MEAN	14.9	16.4	12.5
HIGHEST ANNUAL MEAN			30.2
LOWEST ANNUAL MEAN			5.21
HIGHEST DAILY MEAN	54	98	900
LOWEST DAILY MEAN	6.7	6.6	2.6
ANNUAL SEVEN-DAY MINIMUM	6.7	6.9	2.6
INSTANTANEOUS PEAK FLOW		123	2610
INSTANTANEOUS PEAK STAGE		6.47	6.47
ANNUAL RUNOFF (AC-FT)	10820	11840	9040
10 PERCENT EXCEEDS	31	39	24
50 PERCENT EXCEEDS	9.7	9.4	8.0
90 PERCENT EXCEEDS	7.2	7.2	4.3

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
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, which are poor. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700). See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft³/s, February 17, 1986, gage height, 6.79 ft, from rating curve extended above 954 ft³/s, on basis of slope-area measurement of peak flow; no flow, September 9-15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 502 ft³/s, February 9, gage height, 4.06 ft; minimum daily, 6.8 ft³/s, December 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	16	14	14	34	87	65	79	106	60	45	14
2	14	14	9.5	14	34	88	63	87	107	59	44	13
3	16	14	11	14	34	106	64	90	95	58	44	12
4	15	13	8.7	13	35	79	66	77	93	49	45	11
5	14	13	6.8	14	35	79	76	74	91	47	43	13
6	14	11	9.6	14	56	78	67	78	92	45	48	29
7	13	13	9.0	15	136	76	74	84	88	44	53	39
8	12	12	12	14	159	81	77	82	86	36	41	42
9	12	12	11	15	254	82	68	74	85	33	26	40
10	11	11	11	15	91	75	68	70	82	34	31	42
11	11	8.7	12	15	84	72	67	73	83	32	27	42
12	9.9	8.1	9.0	15	82	73	67	88	86	30	23	38
13	11	7.8	8.4	15	80	73	68	84	86	33	22	38
14	11	8.0	8.6	15	80	74	68	80	88	36	21	38
15	14	7.3	8.9	17	78	70	68	72	90	32	18	40
16	13	e7.2	9.5	24	81	69	68	75	90	27	19	33
17	12	e7.1	10	25	96	69	71	77	89	27	19	16
18	9.8	e7.0	10	41	102	69	74	82	88	25	27	16
19	11	e7.0	11	35	82	68	75	79	85	23	37	22
20	11	6.9	9.9	48	84	65	75	83	82	22	39	24
21	11	7.9	e10	35	89	63	76	83	82	22	38	25
22	9.9	10	e10	38	84	63	68	85	79	19	40	25
23	9.1	12	e10	67	83	63	67	86	80	19	39	25
24	10	15	e11	37	85	68	70	92	82	22	40	26
25	12	8.6	e11	36	88	65	74	109	75	23	39	23
26	12	7.8	11	35	79	66	82	113	70	21	39	22
27	13	7.4	13	33	80	67	81	114	67	23	36	22
28	12	7.5	12	34	86	69	69	117	63	24	18	24
29	15	7.6	13	35	---	77	68	109	64	29	13	24
30	13	12	14	36	---	77	72	102	62	55	11	25
31	13	---	15	35	---	69	---	100	---	56	13	---
TOTAL	381.7	299.9	329.9	813	2391	2280	2116	2698	2516	1065	998	803
MEAN	12.3	10.0	10.6	26.2	85.4	73.5	70.5	87.0	83.9	34.4	32.2	26.8
MAX	17	16	15	67	254	106	82	117	107	60	53	42
MIN	9.1	6.9	6.8	13	34	63	63	70	62	19	11	11
AC-FT	757	595	654	1610	4740	4520	4200	5350	4990	2110	1980	1590

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

	MEAN	7.75	9.63	13.3	23.3	30.0	31.3	28.8	33.5	40.8	22.8	11.5	8.88
MAX	41.6	85.0	149	247	241	187	146	132	223	176	101	57.5	
(WY)	1984	1984	1984	1997	1997	1986	1986	1983	1983	1983	1983	1983	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	1990

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1962 - 1999

ANNUAL TOTAL	15615.4	16691.5	
ANNUAL MEAN	42.8	45.7	21.7
HIGHEST ANNUAL MEAN			115
LOWEST ANNUAL MEAN			1.92
HIGHEST DAILY MEAN	278	Mar 24	1220
LOWEST DAILY MEAN	4.1	Jan 31	.00
ANNUAL SEVEN-DAY MINIMUM	4.4	Jan 25	.00
INSTANTANEOUS PEAK FLOW			502
INSTANTANEOUS PEAK STAGE			4.06
ANNUAL RUNOFF (AC-FT)	30970	33110	15750
10 PERCENT EXCEEDS	91	86	71
50 PERCENT EXCEEDS	31	37	6.6
90 PERCENT EXCEEDS	7.5	10	1.3

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10349980 STEAMBOAT CREEK AT CLEANWATER WAY NEAR RENO, NV

LOCATION.--Lat 39°30'47", long 119°42'41", in SW 1/4 NW 1/4 sec.14, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, on right bank, 0.75 mi above confluence with Truckee River, and 2.0 mi east of Reno.

DRAINAGE AREA.--244 mi².

PERIOD OF RECORD.--November 1992 to December 1996, January 1998 to current year. Records kept by Federal Court Watermaster July 1976 to September 1992. Prior to November 1992, published as "at Kimlick Lane."

GAGE.--Water-stage recorder. Datum of gage is 4,375 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above station. Flow partly regulated by Washoe Lake (station 10348700), Steamboat Ditch, and other municipal ponds. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft³/s, May 10, 1995, gage height, 13.09 ft; maximum gage height, 21.90 ft, January 2, 1997, backwater from Truckee River; minimum daily, 0.63 ft/s, August 21, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge unknown, backwater from Truckee River, gage height, 10.52 ft, February 9; minimum daily, 38 ft/s, July 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	77	69	52	65	165	100	134	e160	80	53	58
2	85	67	53	50	64	e162	95	143	e150	78	51	61
3	81	64	49	49	64	210	99	141	144	77	45	64
4	82	62	46	48	66	207	97	137	143	78	55	63
5	80	61	42	48	64	e188	109	132	143	73	48	64
6	76	58	43	48	69	e140	116	128	143	72	80	69
7	75	58	40	50	122	136	124	136	143	57	109	69
8	71	56	45	48	176	131	127	139	140	55	89	70
9	68	60	45	47	e320	127	108	139	143	52	73	68
10	69	57	45	48	e160	e119	104	134	143	52	77	71
11	67	62	44	49	e150	116	103	139	143	53	95	73
12	63	61	48	49	e148	112	100	146	142	52	82	77
13	59	58	49	48	144	105	97	182	142	52	75	76
14	59	58	46	48	144	106	98	162	140	61	73	72
15	59	59	44	49	e143	102	98	151	138	55	71	72
16	62	58	45	56	142	98	99	145	135	49	69	72
17	63	60	47	58	158	97	100	149	130	50	66	70
18	61	57	53	81	160	98	106	e150	129	53	60	66
19	60	56	49	86	150	98	114	e150	131	52	59	71
20	61	55	49	135	e145	100	130	e150	129	47	58	68
21	61	54	e40	120	145	97	146	e150	122	46	62	65
22	59	58	e40	78	144	96	160	e150	109	45	62	62
23	55	59	e45	131	142	95	144	e150	111	41	66	62
24	53	105	e40	e112	140	93	143	e160	108	41	61	64
25	55	67	e45	82	142	97	144	e190	112	40	67	64
26	61	59	51	76	e142	96	172	e230	111	39	56	63
27	60	56	54	67	140	103	172	e230	103	41	64	61
28	59	56	53	64	141	102	143	e230	101	40	67	61
29	71	54	52	67	---	103	139	e200	96	40	66	62
30	71	57	51	68	---	107	139	e170	89	38	57	60
31	62	---	53	67	---	107	---	e160	---	51	51	---
TOTAL	2064	1829	1475	2079	3790	3713	3626	4907	3873	1660	2067	1998
MEAN	66.6	61.0	47.6	67.1	135	120	121	158	129	53.5	66.7	66.6
MAX	96	105	69	135	320	210	172	230	160	80	109	77
MIN	53	54	40	47	64	93	95	128	89	38	45	58
AC-FT	4090	3630	2930	4120	7520	7360	7190	9730	7680	3290	4100	3960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999
MEAN	35.3	35.3	47.3	51.9	78.1	98.6	78.7
MAX	66.6	61.0	131	67.1	135	148	132
(WY)	1999	1999	1997	1999	1999	1996	1998
MIN	3.64	12.4	13.0	27.3	27.6	30.0	22.6
(WY)	1995	1995	1995	1994	1994	1993	1993

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1993 - 1999

ANNUAL TOTAL	33081	
ANNUAL MEAN	90.6	67.8
HIGHEST ANNUAL MEAN		94.2
LOWEST ANNUAL MEAN		22.5
HIGHEST DAILY MEAN	320	1140
LOWEST DAILY MEAN	38	.63
ANNUAL SEVEN-DAY MINIMUM	40	.93
INSTANTANEOUS PEAK FLOW	unknown	1590
INSTANTANEOUS PEAK STAGE	10.52	21.90
ANNUAL RUNOFF (AC-FT)	65620	49120
10 PERCENT EXCEEDS	147	143
50 PERCENT EXCEEDS	72	49
90 PERCENT EXCEEDS	48	14

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10350000 TRUCKEE RIVER AT VISTA, NV

LOCATION.--Lat 39°31'14", long 119°42'00", in SW 1/4 SE 1/4 sec.11, T.19 N., R.20 E., Washoe County, Hydrologic Unit 16050102, 0.4 mi south of Vista, 600 ft downstream from Steamboat Creek, on the northeast side of Reno-Sparks Sewage Treatment Plant, and at mi 53.38 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,430 mi².

PERIOD OF RECORD.--August 1899 to December 1907, January 1932 to December 1954, October 1958 to current year. Monthly discharge only for some periods, published in WSP 1314 and 1734.

REVISED RECORDS.--WSP 1634: 1904. WSP 1734: 1907 (M). WDR NV-75-1: 1963 (M). WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,367.60 ft above sea level, from levels from U.S. Coast and Geodetic Benchmark. Prior to April 16, 1907, nonrecording gages at several sites at various datums in vicinity of previous gage site 1.2 mi downstream. May to December 1907 reference point on railroad bridge 1.0 mi downstream. January 1932 to December 1954, October 1958 to August 17, 1959, water-stage recorder at site 0.9 mi downstream at datum 5.59 ft higher. August 18, 1959 to December 9, 1959, staff gage at different datum. December 10 1959 to September 30, 1993, at site 1.2 mi downstream at datum 0.99 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Lake Tahoe (station 10337000), Prosser Creek (station 10340300), Stampede (station 10344300), and Boca (station 10344490) Reservoirs, and other lakes, combined capacity 1,070,000 acre-ft. Several powerplants and many diversions above station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,900 ft³/s, February 1, 1963, gage height, 16.76 ft, maximum gage height, 24.16 ft, January 2, 1997; minimum daily, 7.0 ft³/s August 26, 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known. 17.04 ft from floodmarks, December 1955, at site and datum used 1958-59, discharge about 15,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,660 ft³/s, May 27, gage height, 12.38 ft; minimum daily, 451 ft³/s, July 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	879	540	953	550	1020	2920	1630	2370	3320	1320	493	525
2	822	510	852	497	1010	2930	1410	2570	3020	1280	494	505
3	800	478	935	482	984	1390	1390	2500	2590	1250	493	517
4	790	462	1020	486	1000	3220	1350	2380	2370	1200	496	529
5	779	479	1060	496	907	3130	1330	2280	2410	1130	503	520
6	770	544	1080	494	856	2500	1230	2300	2510	1020	597	530
7	759	516	1030	510	1330	2430	1190	2490	2510	970	674	519
8	732	513	944	506	1960	2330	1250	2550	2280	941	590	521
9	727	488	945	499	3610	2190	1290	2490	2340	948	550	515
10	717	466	922	488	3440	2120	1300	2420	2320	893	600	520
11	723	522	911	478	3010	2100	1310	2500	2350	881	594	514
12	721	519	905	470	2740	2030	1340	2830	2200	853	528	498
13	709	514	895	497	2690	1650	1380	3080	2050	819	497	512
14	703	501	896	505	2670	1670	1460	2960	1980	803	505	512
15	652	493	891	495	2620	1680	1500	2870	2050	746	498	486
16	608	497	881	553	2600	1500	1510	2820	2000	709	521	492
17	571	516	879	552	2810	1410	1690	2860	2010	726	537	485
18	572	504	886	707	2820	1540	1850	3020	2020	714	538	502
19	547	483	880	888	2740	1700	2050	3040	2080	664	531	556
20	534	500	883	1130	2680	1740	2350	3120	2030	613	529	534
21	513	496	848	1100	2710	1700	2740	3160	2010	569	532	530
22	494	520	851	1150	2660	1680	2990	3410	1900	537	517	514
23	489	568	889	1610	2610	1690	2840	3540	1840	557	514	511
24	490	876	892	2010	2500	1580	2740	3750	1800	517	512	512
25	526	696	891	1730	2530	1630	2810	4110	1750	507	516	488
26	531	649	885	1520	2480	1810	3050	4310	1630	482	482	508
27	501	630	876	1420	2470	1980	3020	4350	1540	463	502	487
28	481	625	882	1350	2550	1900	2710	4050	1460	469	504	478
29	511	611	718	1100	---	1870	2560	3720	1400	451	501	461
30	516	780	641	1060	---	1860	2420	3410	1350	454	500	459
31	485	---	626	1040	---	1770	---	3420	---	503	503	---
TOTAL	19652	16496	27647	26373	64007	63450	57690	94680	63120	23989	16351	15240
MEAN	634	550	892	851	2286	2047	1923	3054	2104	774	527	508
MAX	879	876	1080	2010	3610	3220	3050	4350	3320	1320	674	556
MIN	481	462	626	470	856	1410	1190	2280	1350	451	482	459
AC-FT	38980	32720	54840	52310	127000	125900	114400	187800	125200	47580	32430	30230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1899	432	1304	1908	41.7	1934
1900	562	2650	1984	87.7	1933
1901	688	3705	1984	94.9	1933
1902	778	6858	1997	122	1991
1903	925	4066	1986	121	1991
1904	1043	5420	1986	197	1933
1905	1337	4979	1907	233	1977
1906	1741	5643	1952	103	1934
1907	1253	5740	1983	46.2	1934
1908	540	3007	1983	79.8	1992
1909	353	1476	1907	36.7	1935
1910	381	1529	1983	28.8	1935

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1899 - 1999
ANNUAL TOTAL	494394	488695	
ANNUAL MEAN	1355	1339	837
HIGHEST ANNUAL MEAN			2786
LOWEST ANNUAL MEAN			158
HIGHEST DAILY MEAN	4950	Mar 24	17400
LOWEST DAILY MEAN	452	Aug 27	7.0
ANNUAL SEVEN-DAY MINIMUM	478	Aug 25	9.7
INSTANTANEOUS PEAK FLOW			18900
INSTANTANEOUS PEAK STAGE			12.38
ANNUAL RUNOFF (AC-FT)	980600	969300	606100
10 PERCENT EXCEEDS	2920	2810	1910
50 PERCENT EXCEEDS	886	895	507
90 PERCENT EXCEEDS	500	496	190

PYRAMID AND WINNEMUCCA LAKES BASIN

10350340 TRUCKEE RIVER NEAR TRACY, NV

LOCATION.--Lat 39°33'24", long 119°33'08", in NE 1/4 SE 1/4 sec.31, T.20 N., R.22 E., Washoe County, Hydrologic Unit 16050102, on left bank, upstream side of bridge, 1.5 mi upstream from Tracy powerplant, 11.5 mi east of Sparks and at mi 40.62 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,580 mi².

PERIOD OF RECORD.--June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,300 ft above sea level, from topographic map. Replaces gage (10350400) Truckee River below Tracy, operated 1.5 mi downstream and destroyed in January 1997 flood. Low flows not equivalent due to diversions between sites.

REMARKS.--Records good 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 (station 10338400) and Independence (station 10342900) Lakes, and several powerplants. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,980 ft³/s, March 24, 1998, gage height, 13.60 ft; minimum daily, 354 ft³/s, October 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s, May 27, gage height, 12.05 ft; minimum daily, 455 ft³/s, July 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	894	604	1050	602	1090	2980	1730	2400	3370	1410	510	532
2	835	596	898	545	1070	3000	1500	2600	3100	1360	496	505
3	815	552	977	521	1050	3240	1480	2540	2680	1330	493	512
4	816	531	1100	528	1060	3290	1440	2430	2430	1280	485	529
5	807	551	1140	530	978	3180	1430	2340	2470	1210	486	526
6	802	602	1170	538	886	2590	1310	2340	2560	1090	548	538
7	802	587	1120	541	1330	2460	1270	2530	2580	1030	666	532
8	772	581	1010	541	1960	2380	1330	2590	2360	987	576	538
9	774	560	1010	536	3710	2230	1380	2540	2400	1000	545	538
10	766	524	989	529	3540	2170	1390	2480	2380	938	567	544
11	769	577	973	516	3110	2150	1400	2530	2420	920	605	538
12	776	581	967	506	2800	2100	1430	2860	2300	890	524	524
13	766	580	956	526	2750	1720	1470	3130	2120	849	485	531
14	762	564	957	544	2720	1720	1540	3010	2040	824	494	547
15	717	554	952	533	2680	1740	1580	2930	2100	754	484	516
16	670	557	943	573	2660	1580	1590	2870	2070	722	494	524
17	648	571	937	591	2840	1480	1740	2910	2070	724	518	513
18	632	565	946	686	2870	1590	1910	3060	2070	721	514	522
19	626	549	939	942	2800	1740	2100	3090	2150	667	509	578
20	604	552	943	1170	2740	1800	2390	3170	2100	625	504	558
21	593	549	e900	1200	2770	1760	2760	3200	2070	577	514	558
22	579	574	e900	1210	2730	1730	3040	3450	1980	544	512	537
23	569	579	e960	1610	2680	1750	2900	3580	1910	562	500	543
24	572	950	985	2090	2570	1650	2790	3780	1880	527	509	538
25	601	750	1050	1850	2600	1690	2840	4120	1830	527	512	517
26	613	692	949	1630	2540	1850	3080	4330	1720	504	476	537
27	591	667	931	1530	2540	2050	3090	4410	1630	468	493	517
28	570	660	934	1450	2590	1970	2760	4110	1550	478	506	515
29	585	645	787	1210	---	1930	2620	3780	1490	460	504	484
30	604	772	670	1140	---	1930	2480	3460	1440	455	497	483
31	566	---	662	1110	---	1850	---	3470	---	488	498	---
TOTAL	21496	18176	29705	28028	65664	65300	59770	96040	65270	24921	16024	15874
MEAN	693	606	958	904	2345	2106	1992	3098	2176	804	517	529
MAX	894	950	1170	2090	3710	3290	3090	4410	3370	1410	666	578
MIN	566	524	662	506	886	1480	1270	2340	1440	455	476	483
AC-FT	42640	36050	58920	55590	130200	129500	118600	190500	129500	49430	31780	31490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 1999, BY WATER YEAR (WY)

	560	567	748	741	1503	2146	2025	2566	2286	949	529	577
MEAN	560	567	748	741	1503	2146	2025	2566	2286	949	529	577
MAX	693	606	958	904	2345	2507	2266	3098	3296	1463	632	718
(WY)	1999	1999	1999	1999	1999	1997	1998	1999	1998	1998	1998	1998
MIN	427	527	537	578	660	1825	1817	1758	1385	580	438	484
(WY)	1998	1998	1998	1998	1998	1998	1997	1997	1997	1997	1997	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1997 - 1999	
ANNUAL TOTAL	503755		506268			
ANNUAL MEAN	1380		1387		1351	
HIGHEST ANNUAL MEAN					1387	
LOWEST ANNUAL MEAN					1315	
HIGHEST DAILY MEAN	5220	Mar 24	4410	May 27	5220	Mar 24 1998
LOWEST DAILY MEAN	443	Aug 27	455	Jul 30	354	Oct 5 1997
ANNUAL SEVEN-DAY MINIMUM	470	Aug 25	479	Jul 27	380	Oct 2 1997
INSTANTANEOUS PEAK FLOW			4720	May 27	6980	Mar 24 1998
INSTANTANEOUS PEAK STAGE			12.05	May 27	13.60	Mar 24 1998
ANNUAL RUNOFF (AC-FT)	999200		1004000		978900	
10 PERCENT EXCEEDS	2940		2840		2870	
50 PERCENT EXCEEDS	943		967		943	
90 PERCENT EXCEEDS	535		516		479	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

10350500 TRUCKEE RIVER AT CLARK, NV

LOCATION--Lat 39°33'56", long 119°29'08", in SE 1/4 SW 1/4 sec.26, T.20 N., R.22 E., Storey County, Hydrologic Unit 16050102, on left bank, about 250 ft downstream from Clark Bridge, about 2 mi downstream from cooling pond outlet at Tracy powerplant, about 0.2 mi west of Clark, and at mi 38.60, upstream from Marble Bluff Dam. Prior to January 16, 1985, at site about 200 ft upstream on right bank.

DRAINAGE AREA--1,600 mi², approximately.

PERIOD OF RECORD--Water years 1972 to current year.

PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: October 1983 to September 1988; September 1993 to September 1998.

WATER TEMPERATURE: June 1972 to September 1977; June 1978 to September 1998.

INSTRUMENTATION--Specific-conductance recorder from October 1983 to September 1988, hourly; August 1993 to September 1998, four times per hour. Temperature recorder from June 1972 to September 1977, continuous; June 1978 to February 1980, four times per hour; March 1980 to May 1982, two times per hour; June 1982 to May 1990, hourly; June to October 1990, four times per hour; November 1990 to July 1993, hourly; August 1993 to September 1998, four times per hour.

REMARKS--Instantaneous specific-conductance and water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in conductance and temperature during the interval between periodic monitor recordings. Interruptions in the record were due to instrument malfunction. In April 1993, station incorporated into the National Water-Quality Assessment Program (NAWQA) to monitor water-quality conditions in the Pyramid and Winnemucca Lakes Basin. Quality-assurance samples are defined in the introductory text section titled "Water Quality-Control Data."

EXTREMES FOR PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: Maximum, 709 microsiemens, November 6, 1994; minimum, 62 microsiemens, February 17, 1986.

WATER TEMPERATURE: Maximum recorded, 29.5°C, June 4, 1977 (temperature presumably higher during period of recorder malfunction in June 1977); minimum, freezing point on several days during winter months of some years.

EXTREMES FOR CURRENT YEAR--

SPECIFIC CONDUCTANCE: Maximum recorded, 387 microsiemens, February 25; minimum recorded, 157 microsiemens, March 24.

WATER TEMPERATURE: Maximum recorded, 23.5°C, August 14; minimum recorded, 0.5°C, December 27.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLE TYPE	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT												
15...	1100	ENVIRONMENTAL	E730	650	103	9.6	8.1	187	10.5	11.0	55	14
NOV												
18...	1100	ENVIRONMENTAL	E570	660	119	12.8	8.1	263	9.0	6.0	70	18
DEC												
16...	1030	ENVIRONMENTAL	E960	665	105	12.0	7.6	193	6.5	4.0	57	15
JAN												
14...	1120	ENVIRONMENTAL	E550	660	107	12.0	8.2	224	14.0	4.5	67	17
FEB												
17...	1030	ENVIRONMENTAL	E2940	655	99	10.7	7.5	125	11.0	6.0	44	11
MAR												
23...	0930	ENVIRONMENTAL	E1790	650	99	10.3	6.8	148	--	7.0	46	12
APR												
15...	1000	ENVIRONMENTAL	E1630	660	105	10.5	7.6	172	7.0	9.0	52	13
MAY												
13...	1050	ENVIRONMENTAL	E3270	650	101	9.7	7.7	102	22.0	10.0	34	8.8
13...	1051	REPLICATE	E3270	650	101	9.7	7.7	100	22.0	10.0	33	8.8
JUN												
21...	1008	FIELD BLANK	--	--	--	--	--	--	--	--	--	<.02
21...	1130	ENVIRONMENTAL	E2160	650	101	8.7	7.4	111	23.0	15.0	35	9.2
JUL												
13...	1005	ENVIRONMENTAL	E880	655	101	8.0	7.5	151	31.0	19.0	47	12
13...	1011	PESTICIDE SPIKE	--	--	--	--	--	--	--	--	--	--
AUG												
18...	1100	ENVIRONMENTAL	E580	655	115	8.8	8.0	255	28.0	21.0	79	19
SEP												
09...	1018	ENVIRONMENTAL	E550	655	107	8.7	8.0	254	27.0	18.0	78	20

PYRAMID AND WINNEMUCCA LAKES BASIN
10350500 TRUCKEE RIVER AT CLARK, NV--Continued

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT 15...	4.6	3.1	17	1	63	77	12	<.1	17	13	.03	.1
NOV 18...	6.1	3.5	25	1	75	91	20	.2	20	20	<.02	.2
DEC 16...	5.0	2.8	16	0.9	75	91	12	<.1	17	13	.03	.1
JAN 14...	5.7	3.2	21	1	72	87	17	.1	20	17	.04	.2
FEB 17...	3.6	2.1	11	0.7	51	62	7.2	<.1	15	6.6	.02	E.068
MAR 23...	3.8	2.1	11	0.7	51	62	8.7	<.1	17	7.4	<.02	.1
APR 15...	4.4	2.2	13	0.8	56	68	11	<.1	18	10	<.02	.1
MAY 13...	2.8	1.6	7.1	0.5	39	47	4.9	<.1	17	4.2	<.02	.1
13...	2.8	1.6	7.2	0.5	39	47	4.8	<.1	17	4.2	<.02	.1
JUN 21...	.006	<.1	E.042	--	--	--	<.1	<.1	<.05	<.1	<.02	<.1
21...	2.8	1.8	8.0	0.6	40	48	6.3	<.1	17	4.9	<.02	E.073
JUL 13...	4.0	2.2	12	0.8	51	62	8.7	<.1	19	9.7	<.02	.2
13...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	7.4	3.8	20	1	71	86	15	<.1	18	24	.24	.3
SEP 09...	7.0	3.8	20	1	79	97	15	.1	19	24	<.02	.2
DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	SOLIDS, DIS- SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS- SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	
OCT 15...	.3	.08	<.01	<.05	.02	E.034	0.16	--	117	119	21	
NOV 18...	.3	<.05	<.01	<.05	.02	E.036	0.22	--	166	157	26	
DEC 16...	.2	.12	.01	<.05	.02	<.05	0.17	--	126	126	18	
JAN 14...	.3	.06	.01	.02	.02	.04	0.21	233	157	145	22	
FEB 17...	.1	.07	<.01	.02	.02	.05	0.12	--	91	88	E8	
MAR 23...	.2	.07	<.01	.02	.02	.04	0.14	--	102	93	11	
APR 15...	.3	<.05	<.01	.02	.01	.04	0.15	--	113	105	60	
MAY 13...	.4	<.05	<.01	.02	.02	.08	0.10	--	77	69	54	
13...	.4	<.05	<.01	.02	.02	.08	0.11	688	78	69	54	
JUN 21...	E.083	<.05	<.01	<.004	.02	<.004	--	--	<10	--	<10	
21...	.2	<.05	<.01	.02	.02	.04	0.11	--	79	73	22	
JUL 13...	.3	<.05	<.01	.04	.03	.06	0.14	246	104	98	19	
13...	--	--	--	--	--	--	--	--	--	--	--	
AUG 18...	.2	<.05	<.01	.04	.02	.06	0.21	247	157	149	21	
SEP 09...	.4	.11	<.01	.04	.02	.06	0.22	242	163	157	18	

PYRAMID AND WINNEMUCCA LAKES BASIN
10350500 TRUCKEE RIVER AT CLARK, NV--Continued

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)
OCT 15...	14	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
NOV 18...	21	<.003	<.002	<.002	<.002	<.001	<.002	<.002	E.009	<.003	<.004
DEC 16...	15	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
JAN 14...	27	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
FEB 17...	7	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
MAR 23...	9	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
APR 15...	12	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
MAY 13...	7	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
13...	6	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
JUN 21...	<3	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
21...	7	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
JUL 13...	12	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
13...	--	.11	.13	.13	.12	.13	.10	.12	E.16	E.14	.11
AUG 18...	13	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
SEP 09...	14	<.003	<.002	<.002	<.002	<.001	<.002	<.002	<.003	<.003	<.004
DATE	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL-ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DIAZ-INON D10 SRG WAT FLT 0.7 U GF, REC PERCENT (UG/L) (91063)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT 15...	<.004	<.002	<.002	93.1 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
NOV 18...	<.004	<.002	<.002	95.6 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
DEC 16...	<.004	<.002	<.002	110 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
JAN 14...	<.004	<.002	<.002	106 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
FEB 17...	<.004	E.001	<.002	96.8 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
MAR 23...	<.004	E.001	<.002	87.5 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
APR 15...	<.004	<.002	<.002	106 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
MAY 13...	<.004	<.002	<.002	96.6 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
13...	<.004	<.002	<.002	92.2 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
JUN 21...	<.004	<.002	<.002	98.2 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
21...	<.004	<.002	<.002	99.6 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
JUL 13...	<.004	<.002	<.002	101 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
13...	.14	.12	E.09	95.5 ^a	.11	.12	.10	.12	.11	.12	.11
AUG 18...	<.004	<.002	<.002	105 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003
SEP 09...	<.004	<.002	<.002	106 ^a	<.002	<.001	<.017	<.002	<.004	<.003	<.003

PYRAMID AND WINNEMUCCA LAKES BASIN
10350500 TRUCKEE RIVER AT CLARK, NV--Continued

DATE	HCH ALPHA D6 SRG WAT FLT 0.7 U GF, REC PERCENT (91065)	LINDANE DIS- SOLVED (UG/L) (39341)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA- THION, DIS- SOLVED (UG/L) (39532)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	METRI- BUZIN WATER DISSOLV (UG/L) (82630)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P, P' DDE DISSOLV (UG/L) (34653)
OCT											
15...	83.9 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
NOV											
18...	83.4 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
DEC											
16...	95.2 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
JAN											
14...	91.9 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
FEB											
17...	88.6 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
MAR											
23...	97.6 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
APR											
15...	98.5 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
MAY											
13...	99.8 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
13...	90.0 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
JUN											
21...	110 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
21...	106 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
JUL											
13...	107 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
13...	101 ^a	.12	.13	.13	E.16	.12	.13	.13	.12	.12	.07
AUG											
18...	108 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
SEP											
09...	99.7 ^a	<.004	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
DATE	PARA- THION, DIS- SOLVED (UG/L) (39542)	PEB- ULATE WATER FLTRD 0.7 U GF, REC (UG/L) (82669)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP- CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)
OCT											
15...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
NOV											
18...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
DEC											
16...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
JAN											
14...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
FEB											
17...	<.004	<.004	<.004	<.005	<.002	E.001	<.003	<.007	<.004	<.013	<.005
MAR											
23...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
APR											
15...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
MAY											
13...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
13...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
JUN											
21...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
21...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
JUL											
13...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	<.013	<.005
13...	.11	.11	.12	.06	.10	.12	.13	.13	.14	.09	.15
AUG											
18...	<.004	<.004	<.004	<.005	<.002	E.006	<.003	<.007	<.004	<.013	<.005
SEP											
09...	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004	--	<.005

PYRAMID AND WINNEMUCCA LAKES BASIN

10350500 TRUCKEE RIVER AT CLARK, NV--Continued

DATE	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TERBUTH YLAZINE SURROGT WAT FLT 0.7 U GF, REC PERCENT (91064)	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SEDI- MENT, PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT										
15...	<.01	<.007	<.013	102 ^a	<.002	<.001	<.002	E12	6	86
NOV										
18...	<.01	<.007	<.013	99.7 ^a	<.002	<.001	<.002	E9.2	6	94
DEC										
16...	<.01	<.007	<.013	109 ^a	<.002	<.001	<.002	E13	5	98
JAN										
14...	<.01	<.007	<.013	111 ^a	<.002	<.001	<.002	E7.4	5	98
FEB										
17...	<.01	<.007	<.013	98.9 ^a	<.002	<.001	<.002	E357	45	--
MAR										
23...	<.01	<.007	<.013	102 ^a	<.002	<.001	<.002	E97	20	89
APR										
15...	<.01	<.007	<.013	115 ^a	<.002	<.001	<.002	E70	16	91
MAY										
13...	<.01	<.007	<.013	114 ^a	<.002	<.001	<.002	E468	53	81
13...	<.01	<.007	<.013	109 ^a	<.002	<.001	<.002	--	--	--
JUN										
21...	<.01	<.007	<.013	--	<.002	<.001	<.002	--	--	--
21...	<.01	<.007	<.013	--	<.002	<.001	<.002	E111	19	84
JUL										
13...	<.01	<.007	<.013	--	<.002	<.001	<.002	E31	13	91
13...	.11	E.13	.11	--	.13	.12	.10	--	--	--
AUG										
18...	<.01	<.007	<.013	--	<.002	<.001	<.002	E11	7	94
SEP										
09...	<.01	<.007	<.013	--	<.002	<.001	<.002	E12	8	93

E: Estimated (see introductory text section titled "Long-Term Method Detection Levels and Laboratory Reporting Levels").
This does not apply to discharge.

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

PYRAMID AND WINNEMUCCA LAKES BASIN

10351300 TRUCKEE CANAL NEAR WADSWORTH, NV

LOCATION (revised).--Lat 39°36'46", long 119°17'46", in NW 1/4 SW 1/4 sec. 9, T.20 N., R.24 E., Storey County, Hydrologic Unit 16050102, Pyramid Indian Reservation, on left bank, 2.2 mi southwest of Wadsworth, and at mi 22.04 upstream from terminal weir at Lahontan Reservoir.

DRAINAGE AREA.--Indeterminate.

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

REVISED RECORDS.--WDR NV-77-1: 1975.

GAGE.--Velocity-stage recorder. Elevation of gage is 4,200 ft above sea level, from topographic map. Prior to May 23, 1994, at site 0.9 mi upstream, at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is regulated by Derby Dam (including two wasteways between gage and Derby Dam) and many reservoirs, powerplants, and diversions above Derby Dam. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 967 ft³/s March 10 1995; no flow at times, some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	33	20	5.9	14	11	2.4	31	e61	85	97	54
2	35	33	17	4.4	12	9.8	10	31	56	92	100	58
3	34	22	16	4.1	12	2.1	37	25	74	91	105	97
4	28	20	18	4.6	12	1.1	25	18	82	92	103	141
5	28	22	16	4.8	12	e.38	24	51	45	65	96	147
6	29	e35	16	6.1	6.3	2.0	24	61	51	71	98	120
7	27	e56	15	6.0	2.2	2.9	21	60	43	83	87	41
8	42	e65	8.5	6.5	13	2.6	17	59	38	92	68	43
9	58	e70	7.6	7.0	19	2.1	18	76	47	106	40	56
10	60	e62	8.3	6.9	3.2	5.4	18	70	63	110	30	53
11	61	e66	11	6.5	1.5	15	20	71	95	130	43	83
12	55	e68	12	6.7	e1.1	24	28	84	78	134	61	86
13	52	e45	11	7.0	e1.2	23	36	90	72	131	91	77
14	68	e20	10	9.0	e1.1	20	33	79	61	119	114	71
15	78	13	10	8.9	e1.3	21	37	79	60	120	74	97
16	73	14	11	6.9	e1.4	19	39	102	76	113	74	119
17	76	13	11	5.1	e1.3	16	53	89	80	106	96	123
18	51	14	9.9	4.6	e1.3	15	32	87	73	104	116	118
19	76	14	11	9.3	e1.2	18	33	90	105	98	109	77
20	72	14	11	10	e1.1	20	25	90	111	78	103	75
21	72	13	9.1	9.2	e1.2	19	18	98	105	57	99	78
22	64	11	6.3	7.0	e1.2	19	28	111	41	66	90	72
23	62	11	6.8	8.5	.82	18	23	115	44	67	82	74
24	61	e8.0	7.2	9.3	.82	16	49	116	71	96	62	86
25	41	9.6	7.4	3.5	13	17	64	127	89	106	61	99
26	29	8.5	8.8	1.6	15	20	73	134	99	87	73	79
27	26	9.1	9.1	.82	13	26	57	136	89	67	74	93
28	26	9.2	7.3	.91	11	27	46	e86	72	68	92	96
29	31	9.0	4.1	4.9	---	27	45	e80	78	66	73	98
30	42	12	3.5	17	---	28	21	e73	85	99	49	95
31	34	---	6.5	15	---	25	---	e67	---	98	49	---
TOTAL	1519	799.4	326.4	208.03	174.24	472.38	956.4	2486	2144	2897	2509	2606
MEAN	49.0	26.6	10.5	6.71	6.22	15.2	31.9	80.2	71.5	93.5	80.9	86.9
MAX	78	70	20	17	19	28	73	136	111	134	116	147
MIN	26	8.0	3.5	.82	.82	.38	2.4	18	38	57	30	41
AC-FT	3010	1590	647	413	346	937	1900	4930	4250	5750	4980	5170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

	MEAN	227	254	220	172	173	226	268	333	263	207	194	201
MAX	522	535	660	520	633	722	870	822	822	458	339	340	
(WY)	1976	1969	1967	1967	1967	1989	1989	1978	1970	1971	1967	1969	
MIN	36.7	26.6	.000	.000	.000	.000	23.7	59.5	57.7	39.1	3.21	29.8	
(WY)	1993	1999	1976	1971	1971	1971	1998	1998	1992	1992	1994	1994	

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1967 - 1999
ANNUAL TOTAL	17293.20	17097.85	
ANNUAL MEAN	47.4	46.8	228
HIGHEST ANNUAL MEAN			397
LOWEST ANNUAL MEAN			46.8
HIGHEST DAILY MEAN	167	147	967
LOWEST DAILY MEAN	.50	.38	.00
ANNUAL SEVEN-DAY MINIMUM	6.7	1.1	.00
ANNUAL RUNOFF (AC-FT)	34300	33910	165500
10 PERCENT EXCEEDS	114	99	490
50 PERCENT EXCEEDS	31	37	192
90 PERCENT EXCEEDS	8.8	5.0	17

e Estimated

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 200 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 except estimated daily discharges, which are poor. Flow regulated by Derby Dam, diversions, and spillways between Derby Dam and station. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 916 ft³/s, February 3, 1967; no flow at times, some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	16	.14	.27	.33	.30	.72	.38	.17	.00	.22	.94
2	.46	7.3	.10	.28	.34	.28	5.5	.26	.12	.00	.89	.70
3	.38	.56	.14	.28	.37	.26	2.4	.29	.77	.00	19	5.9
4	.41	.76	2.6	.28	.35	.21	1.1	.36	.02	.05	.60	17
5	.47	2.8	19	.31	.33	.18	1.0	.34	.01	11	5.5	18
6	.52	.62	7.0	.35	.32	.15	1.1	.27	.01	.08	29	3.6
7	.48	.49	5.5	.38	.33	.16	4.7	.21	.02	.00	20	37
8	2.4	.52	e4.7	.37	.33	.16	6.9	.18	.04	.27	3.9	21
9	9.8	.77	e3.1	.38	.34	.14	1.4	.12	.00	.47	1.1	8.5
10	11	.66	e2.5	.38	.40	.14	.89	.07	.01	.06	2.4	.55
11	3.4	1.2	e1.8	.38	.64	.13	.76	.05	.17	.03	.88	.33
12	.69	12	1.9	.41	.69	.15	.70	.14	.15	.08	1.3	.24
13	.58	25	2.5	.42	.65	.14	.60	.62	.00	1.3	.48	.25
14	.47	10	1.5	.42	.58	.11	.55	.79	.08	15	.34	.29
15	.43	3.5	1.3	.41	.51	.13	1.6	.10	1.8	30	.24	.29
16	.46	1.7	1.5	.40	.49	.15	5.9	.43	.30	.52	.22	.20
17	2.2	1.6	1.4	.39	.48	.23	2.6	.27	.06	.52	.21	.17
18	.53	.55	1.4	.38	.47	.33	.43	.25	.05	.48	.31	8.1
19	.33	.32	1.4	.38	.44	.55	.47	.20	.00	.45	.46	8.9
20	.24	.24	1.4	.38	.36	1.2	.52	.52	.01	11	1.2	8.5
21	6.0	.19	1.1	.36	.33	3.6	.52	.73	.03	1.7	5.0	18
22	9.9	.14	.78	.34	.31	2.9	.42	.35	2.2	2.7	.35	24
23	.15	.07	.39	.36	.28	.89	.30	.36	1.4	1.9	.39	12
24	.09	.06	.17	.31	.27	.60	.28	.62	.24	.28	13	5.1
25	1.3	.03	.02	.28	.27	.51	.27	10	.14	.20	14	.43
26	.41	.02	.02	.28	.26	.56	.32	1.3	.03	2.2	.45	15
27	.25	.09	.01	.27	.26	.50	.68	.57	.03	8.7	.50	12
28	.63	.08	.02	.29	.30	.41	2.0	.66	.01	3.3	.23	4.1
29	4.6	.13	.21	.35	---	.44	.26	.51	.49	1.5	.19	7.2
30	11	.10	.24	.38	---	.67	.39	7.6	.01	1.3	.52	7.6
31	19	---	.25	.37	---	.92	---	.18	---	.23	19	---
TOTAL	89.12	87.50	64.09	10.84	11.03	17.10	45.28	28.73	8.37	95.32	141.88	245.89
MEAN	2.87	2.92	2.07	.35	.39	.55	1.51	.93	.28	3.07	4.58	8.20
MAX	19	25	19	.42	.69	3.6	6.9	10	2.2	30	29	37
MIN	.09	.02	.01	.27	.26	.11	.26	.05	.00	.00	.19	.17
AC-FT	177	174	127	22	22	34	90	57	17	189	281	488

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

MEAN	173	223	204	159	162	206	212	224	152	81.7	78.2	118
MAX	442	506	620	503	630	668	774	692	673	297	220	290
(WY)	1976	1974	1967	1967	1967	1989	1989	1978	1970	1971	1976	1985
MIN	1.00	2.92	.000	.000	.000	.000	.15	.090	.28	.34	.063	.52
(WY)	1997	1999	1976	1971	1971	1971	1996	1996	1999	1992	1992	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1967 - 1999
ANNUAL TOTAL	1533.97	845.15	
ANNUAL MEAN	4.20	2.32	166
HIGHEST ANNUAL MEAN			330
LOWEST ANNUAL MEAN			2.32
HIGHEST DAILY MEAN	31	37	916
LOWEST DAILY MEAN	.01	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.07	.02	.00
ANNUAL RUNOFF (AC-FT)	3040	1680	120300
10 PERCENT EXCEEDS	9.6	7.6	445
50 PERCENT EXCEEDS	2.8	.43	91
90 PERCENT EXCEEDS	.29	.08	.67

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN

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.

PERIOD OF RECORD.--January 1909 to December 1910, January to December 1916, January 1918 to July 1958, October 1958 to current year. Records prior to January 1918 not equivalent, due to site location above Derby Dam.

REVISED RECORDS.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,200 ft above sea level, from topographic map.

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 (station 10338400) and Independence (station 10342900) Lakes, several powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir into the Carson River basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft³/s, January 3, 1997, gage height, 14.57 ft; no flow some days, some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,840 ft³/s, May 27, gage height, 7.94 ft; minimum daily, 314 ft³/s, September 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e890	e494	875	511	934	2980	1750	2330	3330	1280	392	372
2	e800	e530	738	456	916	3060	1460	2500	3110	1220	368	339
3	e770	e480	789	431	896	3270	1430	2460	2660	1190	368	343
4	e770	e460	921	437	899	3400	1400	2380	2370	1140	364	356
5	e760	e460	935	436	864	3320	1400	2290	2360	1060	355	350
6	e750	e512	969	447	775	2800	1270	2270	2460	957	399	356
7	e750	e500	960	450	1050	2610	1220	2430	2500	881	532	356
8	e690	e480	853	447	1650	2560	1250	2500	2300	816	457	359
9	e670	e460	846	443	3190	2380	1320	2460	2310	831	425	354
10	e660	e440	831	438	3180	2310	1340	2410	2300	768	423	366
11	e660	e470	813	426	2840	2290	1350	2430	2330	742	483	364
12	e680	e500	812	415	2520	2240	1380	2730	2240	704	405	345
13	e680	e520	801	428	2500	1880	1310	3010	2080	675	357	343
14	e650	e520	802	448	2490	1840	1340	2920	1990	657	357	363
15	e610	e500	800	436	2470	1850	1390	2840	2040	582	346	335
16	e550	e490	792	460	2480	1700	1410	2780	2030	554	351	342
17	e520	e510	785	491	2640	1560	1550	2810	2030	542	378	335
18	e510	e520	791	513	2730	1660	1760	2950	2010	554	378	338
19	e500	e510	790	808	2700	1840	1960	2980	2100	508	373	389
20	e460	e500	794	946	2650	1930	2230	3050	2060	474	366	378
21	e460	e510	763	1030	2700	1880	2560	3070	2030	418	373	380
22	e430	e520	764	1020	2680	1860	2910	3310	1950	388	378	359
23	e420	e540	795	1320	2660	1870	2810	3440	1880	406	356	368
24	e420	742	806	1830	2560	1760	2710	3620	1850	373	364	358
25	e470	626	816	1610	2600	1760	2740	3950	1810	370	365	345
26	e520	565	796	1400	2560	1920	2950	4180	1700	357	331	357
27	e500	544	785	1320	2570	2140	3010	4330	1620	328	330	348
28	e480	538	789	1240	2620	2020	2710	4100	1540	340	345	347
29	e470	518	695	1060	---	1960	2560	3770	1400	332	338	324
30	e510	590	564	967	---	1960	2430	3430	1280	321	344	314
31	e470	---	551	949	---	1870	---	3420	---	350	333	---
TOTAL	18480	15549	24821	23613	61324	68480	56910	93150	63670	20118	11734	10583
MEAN	596	518	801	762	2190	2209	1897	3005	2122	649	379	353
MAX	890	742	969	1830	3190	3400	3010	4330	3330	1280	532	389
MIN	420	440	551	415	775	1560	1220	2270	1280	321	330	314
AC-FT	36660	30840	49230	46840	121600	135800	112900	184800	126300	39900	23270	20990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1999, BY WATER YEAR (WY)

	MEAN	84.5	165	345	442	561	593	764	1056	694	183	80.4	87.1
MAX	776	2629	3722	6672	3846	4054	3395	4587	5099	2478	716	1071	
(WY)	1983	1984	1984	1997	1986	1952	1983	1983	1983	1983	1975	1983	
MIN	.90	.13	.22	.24	1.22	.57	6.93	16.6	11.4	6.87	5.39	4.37	
(WY)	1995	1956	1962	1962	1961	1962	1931	1931	1960	1931	1931	1931	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1918 - 1999

ANNUAL TOTAL	442078	468432		
ANNUAL MEAN	1211	1283		
HIGHEST ANNUAL MEAN			419	
LOWEST ANNUAL MEAN			2430	1983
HIGHEST DAILY MEAN	4690	Mar 24	6.16	1931
LOWEST DAILY MEAN	254	Aug 28	.00	Jun 26 1918
ANNUAL SEVEN-DAY MINIMUM	282	Aug 26	.00	Nov 3 1955
INSTANTANEOUS PEAK FLOW			4840	May 27
INSTANTANEOUS PEAK STAGE			7.94	May 27
ANNUAL RUNOFF (AC-FT)	876900	929100	14.57	Jan 3 1997
10 PERCENT EXCEEDS	2700	2730	1350	
50 PERCENT EXCEEDS	789	808	33	
90 PERCENT EXCEEDS	460	357	4.0	

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10351650 TRUCKEE RIVER AT WADSWORTH, NV

LOCATION.--Lat 39°37'56", long 119°16'56", in SW 1/4 NW 1/4 sec.3, T.20 N., R.24 E., Washoe County, Hydrologic Unit 16050102, in Pyramid Lake Indian Reservation, on left bank, 10 ft upstream from bridge on Nevada Highway 427, 0.2 mi southeast of Wadsworth and at mi 23.69 upstream from Marble Bluff Dam.

DRAINAGE AREA.--1,728 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to September 1986, September 1993 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 4,070 ft above sea level, from topographic map. Prior to September 1986 at site 0.5 mi downstream at different datum.

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 (station 10338400) and Independence (station 10342900) Lakes, several powerplants, many diversions for irrigation, and by Derby Dam. Truckee Canal diverts water at Derby Dam out of basin to Lahontan Reservoir into the Carson River Basin. See schematic diagram of Pyramid and Winnemucca Lakes Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,100 ft³/s, January 3, 1997, gage height, 19.64 ft; minimum daily, 0.46 ft³/s, October 11, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,560 ft³/s, February 9, gage height 10.11 ft; maximum gage height, 10.21 ft, May 27; minimum daily, 305 ft³/s, July 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	897	494	1080	608	1110	2940	1940	2350	3260	1370	e386	465
2	808	534	918	534	1080	3040	1640	2490	3100	1350	e364	410
3	773	488	973	498	1060	3180	1560	2490	2640	1310	356	346
4	775	465	1150	502	1050	3350	1540	2430	2380	1260	350	362
5	761	469	1180	499	1030	3270	1530	2300	2390	1190	311	401
6	751	512	1230	513	889	2820	1410	2250	2460	1080	354	463
7	752	507	1210	511	1130	2560	1350	2400	2480	979	613	489
8	697	485	1070	512	1950	2530	1360	2490	2320	891	540	492
9	673	467	1040	506	3480	2350	1450	2440	2300	884	538	462
10	665	448	1030	502	3650	2310	1470	2390	2290	808	547	475
11	662	478	1000	485	3280	2290	1480	2370	2300	760	639	446
12	681	509	996	469	2880	2230	1500	2650	2250	742	498	417
13	683	526	982	483	2820	1920	1510	2970	2090	719	395	422
14	658	527	982	512	2790	1850	1600	2890	1990	702	367	457
15	619	501	979	497	2740	1860	e1630	2810	2030	637	405	391
16	551	499	962	521	2730	1740	e1690	2690	2010	613	412	362
17	526	516	950	574	2860	1590	1760	2730	1990	578	413	357
18	515	529	960	560	2940	1670	e2000	2880	1980	630	359	371
19	500	512	956	974	2910	1840	e2190	2940	2040	583	332	484
20	469	502	960	1120	2820	1930	2410	3010	2000	555	335	480
21	460	513	922	1290	2840	1910	2710	3030	1980	508	399	483
22	435	528	908	1260	2800	1880	3090	3230	1960	458	415	458
23	427	548	935	1580	2770	1890	2980	3340	1880	458	408	467
24	425	898	972	2280	2630	1800	2810	3500	1790	398	454	431
25	476	795	1010	2050	2650	1790	2790	3850	1730	381	464	406
26	527	693	970	1780	2600	1930	2930	4020	1600	394	413	432
27	505	662	952	1660	2600	2170	2990	4160	1510	378	391	424
28	485	653	953	1560	2620	2100	2730	3930	1460	377	393	399
29	475	627	867	1340	---	2050	2590	3640	1370	384	396	332
30	519	686	674	1160	---	2050	2460	3360	1310	e305	444	322
31	477	---	653	1130	---	2010	---	3370	---	e322	429	---
TOTAL	18627	16571	30424	28470	66709	68850	61100	91400	62890	22004	13120	12706
MEAN	601	552	981	918	2382	2221	2037	2948	2096	710	423	424
MAX	897	898	1230	2280	3650	3350	3090	4160	3260	1370	639	492
MIN	425	448	653	469	889	1590	1350	2250	1310	305	311	322
AC-FT	36950	32870	60350	56470	132300	136600	121200	181300	124700	43640	26020	25200

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	222	395	638	990	1079	1232	1201	1715	1313	489	217	232
MAX	905	2786	3965	7378	3837	4979	3595	4164	5882	2776	857	1218
(WY)	1983	1984	1984	1997	1997	1986	1969	1982	1983	1983	1983	1983
MIN	1.72	17.6	9.57	9.01	9.43	26.3	34.5	45.7	26.9	22.3	16.8	6.80
(WY)	1995	1994	1995	1994	1994	1979	1979	1977	1966	1966	1994	1994

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1965 - 1999
ANNUAL TOTAL	482173	492871	
ANNUAL MEAN	1321	1350	814
HIGHEST ANNUAL MEAN			2677
LOWEST ANNUAL MEAN			55.3
HIGHEST DAILY MEAN	4800	4160	17500
LOWEST DAILY MEAN	215	305	.46
ANNUAL SEVEN-DAY MINIMUM	250	342	.62
INSTANTANEOUS PEAK FLOW		4560	19100
INSTANTANEOUS PEAK STAGE		10.21	19.64
ANNUAL RUNOFF (AC-FT)	956400	977600	590000
10 PERCENT EXCEEDS	2910	2820	2430
50 PERCENT EXCEEDS	914	974	347
90 PERCENT EXCEEDS	476	409	26

e Estimated

PYRAMID AND WINNEMUCCA LAKES BASIN
10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to 1980, 1993 to current year.

CHEMICAL ANALYSES: September 1969 to April 1972, June 1979 to August 1980, monthly or less frequently.

SPECIFIC CONDUCTANCES: September 1969 to January 1973, monthly or less frequently; March 1977 to September 1980, monthly.

WATER TEMPERATURE: March to June 1965, monthly; July 1965 to December 1979, continuous; January to August 1980, hourly; August 1993 to current year, four times per hour.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 1965 to December 1979; January to August 1980; August 1993 to current year.

INSTRUMENTATION.--Water temperature monitor July 1965 to December 1979, continuous; January to August 1980, hourly; August 1993 to current year, four times per hour.

REMARKS.--Instantaneous water-temperature measurements during a site visit can be slightly outside the range of values recorded during the same day by the water-quality monitor. This presumably is due to fluctuations in temperature during the interval between periodic monitor recordings. Interruptions in record due to recorder and temperature probe malfunctions. Records represent water temperature at probe within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum daily, 32.0°C, August 1, 1994; minimum daily, freezing point on several days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 25.5°C, July 26, 27, 31; minimum recorded, freezing point, December 21-26.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.5	15.0	16.0	10.5	8.5	9.5	7.5	6.0	7.0	5.0	3.5	4.0
2	17.0	15.0	16.0	10.5	8.0	9.0	6.5	5.5	6.0	4.0	3.0	3.5
3	15.5	13.0	14.0	10.5	8.5	9.5	6.5	5.5	6.0	3.5	2.0	3.0
4	14.5	12.0	13.0	10.0	8.0	9.0	5.5	3.5	5.0	3.0	1.5	2.5
5	14.0	11.5	12.5	9.0	8.0	8.5	3.5	2.5	3.0	3.5	1.5	2.5
6	14.0	11.0	12.5	8.0	7.0	7.5	3.0	2.5	2.5	3.5	2.0	2.5
7	14.0	11.5	12.5	8.5	6.5	7.5	3.0	2.0	2.5	4.0	2.5	3.0
8	14.5	12.0	13.0	7.5	6.0	6.5	3.0	2.0	2.5	3.5	2.0	3.0
9	14.5	12.0	13.0	7.0	5.5	6.0	3.5	2.5	3.0	3.5	2.0	2.5
10	14.0	11.5	12.5	7.0	5.5	6.5	3.0	2.0	2.5	3.5	2.0	2.5
11	13.5	11.0	12.0	7.0	5.5	6.5	3.0	2.0	2.5	3.0	2.0	2.5
12	12.5	11.0	12.0	8.0	6.0	7.0	4.0	2.5	3.5	4.0	2.5	3.5
13	14.0	11.0	12.5	7.5	6.0	6.5	5.5	4.0	4.5	5.0	3.0	4.0
14	14.0	11.5	12.5	8.0	6.0	7.0	6.0	5.0	5.0	5.0	3.5	4.5
15	12.5	11.0	12.0	8.0	6.5	7.5	5.0	4.0	4.5	6.5	5.0	5.5
16	12.0	10.0	11.0	8.0	6.5	7.5	5.0	3.5	4.5	7.0	5.5	6.0
17	11.5	8.5	10.0	8.0	6.5	7.0	5.0	3.5	4.0	7.0	6.0	6.5
18	12.0	7.5	9.5	7.0	6.0	6.5	5.0	3.5	4.0	7.0	6.0	6.5
19	13.0	8.0	10.0	6.5	5.0	6.0	3.5	2.5	3.0	7.0	5.5	6.0
20	13.0	8.0	10.5	6.5	5.0	6.0	2.5	1.0	2.0	6.0	5.0	5.5
21	14.0	8.0	10.5	7.5	6.0	6.5	1.0	.0	.5	5.0	3.5	4.0
22	13.0	9.0	11.0	8.0	6.5	7.0	.0	.0	.0	5.0	3.5	4.0
23	13.0	9.5	11.5	9.0	7.0	8.0	.0	.0	.0	5.0	4.5	4.5
24	11.5	9.5	11.0	7.5	6.5	7.0	.0	.0	.0	4.5	2.0	3.0
25	9.5	8.5	9.0	6.5	5.0	6.0	.5	.0	.0	3.5	2.0	2.5
26	11.5	8.0	9.5	6.0	4.0	5.0	2.0	.0	1.0	3.5	2.5	3.0
27	12.5	8.5	10.5	6.5	5.5	6.0	4.0	2.0	3.0	4.5	3.5	4.0
28	12.5	10.0	11.0	7.0	6.0	6.5	5.0	3.5	4.0	4.5	3.0	3.5
29	11.0	9.0	10.0	7.0	6.0	6.5	5.0	4.0	4.5	4.0	2.5	3.5
30	10.5	8.5	9.0	7.5	6.5	7.0	4.5	3.5	4.0	4.5	3.5	4.0
31	10.0	7.5	8.5	---	---	---	5.0	4.0	4.5	4.5	3.5	4.0
MONTH	17.5	7.5	11.6	10.5	4.0	7.1	7.5	.0	3.2	7.0	1.5	3.9

PYRAMID AND WINNEMUCCA LAKES BASIN
10351650 TRUCKEE RIVER AT WADSWORTH, NV--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	5.5	4.0	4.5	8.0	6.5	7.0	6.0	4.5	5.0	12.5	9.5	11.0
2	5.5	4.0	4.5	7.5	6.5	7.0	6.5	4.5	5.5	11.5	9.0	10.5
3	6.0	4.0	5.0	7.5	6.5	7.0	6.0	4.5	5.5	10.0	8.5	9.0
4	6.5	5.0	6.0	6.5	5.5	6.0	7.0	4.0	5.5	10.0	8.0	9.0
5	7.0	5.5	6.5	6.0	5.0	5.5	7.5	5.5	6.5	11.5	9.0	10.0
6	7.0	5.5	6.5	6.5	5.0	5.5	6.0	5.0	5.5	13.0	10.0	11.0
7	6.5	5.5	6.0	6.5	5.0	5.5	7.5	5.0	6.0	13.0	10.5	11.5
8	6.0	4.5	5.0	6.0	5.0	5.5	7.5	5.5	6.5	12.0	10.0	11.0
9	4.5	3.0	4.0	6.0	4.5	5.0	7.0	4.5	5.5	11.5	9.0	10.0
10	3.0	1.5	2.0	5.5	4.0	4.5	6.5	4.5	5.5	11.0	9.0	10.0
11	3.5	2.0	2.5	6.5	4.5	5.5	8.5	5.5	7.0	12.5	9.5	11.0
12	4.0	3.0	3.5	7.0	5.5	6.0	10.5	7.0	9.0	13.5	10.5	12.0
13	5.5	4.0	4.5	7.0	5.5	6.5	12.0	8.5	10.0	12.0	10.0	11.0
14	6.0	5.0	5.0	8.5	6.0	7.5	12.0	9.5	10.5	11.5	9.0	10.0
15	6.0	4.5	5.0	9.0	7.5	8.0	11.5	9.0	10.0	11.0	8.0	9.5
16	6.0	5.0	5.5	8.5	6.5	7.5	11.5	9.0	10.0	12.0	9.0	10.5
17	6.5	6.0	6.0	9.5	7.0	8.0	12.5	10.0	11.0	13.0	10.0	11.5
18	7.0	5.5	6.0	10.0	7.5	8.5	13.0	10.5	11.5	11.5	10.0	11.0
19	5.5	4.5	5.0	9.0	8.0	8.5	12.5	10.0	11.0	13.0	9.5	11.0
20	5.0	4.0	4.5	8.0	6.5	7.5	12.5	10.0	11.5	13.5	11.0	12.0
21	5.5	4.5	5.0	7.5	5.5	6.5	11.0	9.5	10.0	13.5	11.0	12.0
22	5.0	4.0	4.5	8.5	6.0	7.0	9.5	7.5	8.0	13.5	11.5	12.5
23	7.0	5.0	6.0	9.0	6.5	8.0	9.0	7.0	7.5	14.0	12.0	12.5
24	7.5	6.0	6.5	10.0	7.5	8.5	9.5	7.5	8.5	14.0	12.5	13.0
25	6.5	5.5	6.0	10.5	7.5	9.0	11.0	8.5	9.5	13.5	12.0	12.5
26	5.5	4.0	5.0	10.5	8.0	9.0	11.0	9.0	10.0	14.0	12.0	12.5
27	7.0	5.0	6.0	9.5	8.0	8.5	10.0	8.5	9.0	14.0	12.5	13.5
28	8.0	6.5	7.0	8.5	7.0	7.5	9.0	8.0	8.5	14.0	12.5	13.5
29	---	---	---	9.0	6.5	7.5	8.0	6.0	6.5	13.5	11.5	12.5
30	---	---	---	8.0	6.0	7.0	9.5	6.5	8.0	13.5	11.0	12.0
31	---	---	---	7.0	4.5	6.0	---	---	---	14.5	12.0	13.0
MONTH	8.0	1.5	5.1	10.5	4.0	7.0	13.0	4.0	8.1	14.5	8.0	11.4
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	14.5	12.5	13.0	21.5	18.5	20.0	24.5	19.5	22.0	19.0	15.5	17.5
2	13.0	11.0	12.5	21.0	18.5	19.5	24.0	19.0	21.5	19.5	16.0	17.5
3	11.0	9.0	10.0	20.0	17.5	18.5	24.5	19.5	22.0	20.0	15.5	17.5
4	10.0	8.5	9.0	19.0	16.0	17.5	24.0	19.5	21.5	20.0	14.5	17.0
5	13.5	9.5	11.5	19.5	15.5	17.5	22.5	19.0	21.0	20.5	14.5	17.5
6	15.0	12.5	13.5	20.5	16.5	18.5	20.5	18.5	19.5	21.0	16.5	19.0
7	14.5	12.0	13.0	21.0	17.5	19.5	21.0	17.5	19.0	22.0	16.5	19.0
8	14.0	11.0	12.5	21.5	17.0	19.5	21.0	18.0	19.5	22.0	16.5	19.5
9	13.0	11.0	12.0	22.0	17.5	20.0	22.0	18.0	19.5	21.5	17.0	19.0
10	14.5	11.5	13.0	22.0	18.0	20.0	20.0	17.5	19.0	20.5	16.5	18.5
11	16.0	12.5	14.0	22.5	18.5	20.5	20.0	17.0	18.5	21.5	16.0	18.5
12	16.5	13.5	15.0	23.5	19.5	21.5	22.5	18.0	20.0	21.5	15.5	18.5
13	17.5	13.5	15.5	23.0	20.0	21.5	22.5	18.5	20.5	22.0	16.0	19.0
14	18.0	14.5	16.5	23.5	19.5	21.5	22.0	18.0	20.0	21.5	17.0	19.0
15	17.0	15.0	16.5	23.0	19.0	21.0	22.0	17.5	19.5	22.0	16.0	19.0
16	17.0	14.0	15.5	22.5	18.0	20.0	23.0	18.0	20.5	20.5	16.5	18.5
17	18.0	14.5	16.0	22.5	17.5	19.5	---	---	---	20.5	17.0	19.0
18	17.5	14.5	16.0	22.5	17.5	19.5	---	---	---	19.5	17.5	18.5
19	17.0	14.0	16.0	22.5	18.0	20.0	---	---	---	20.5	16.5	18.5
20	18.0	15.0	16.0	21.5	18.0	20.0	23.5	19.0	21.0	21.0	17.5	19.0
21	17.5	15.0	16.5	23.0	17.0	19.5	23.0	19.0	21.0	20.5	17.0	19.0
22	19.0	16.0	17.5	23.0	17.5	20.5	23.5	19.5	21.0	19.0	17.5	18.5
23	19.5	16.0	18.0	23.0	18.5	20.5	22.5	19.5	21.0	20.5	17.0	18.5
24	19.0	17.0	18.0	22.0	18.0	20.0	23.0	19.0	21.0	20.5	17.0	19.0
25	18.0	16.0	17.0	24.5	17.5	20.5	23.0	19.5	21.0	20.5	17.5	19.0
26	18.0	15.0	16.5	25.5	18.5	21.5	22.5	19.5	21.0	19.5	16.5	18.0
27	18.0	14.5	16.5	25.5	19.5	22.5	22.0	19.5	20.5	17.5	15.0	16.5
28	19.5	16.0	17.5	25.0	20.0	22.5	23.0	19.0	21.0	16.0	13.5	15.0
29	20.5	17.0	18.5	25.0	20.0	22.5	23.5	19.5	21.5	16.5	12.5	14.5
30	21.5	18.0	19.5	25.0	19.5	22.0	21.0	18.0	20.0	17.0	13.0	15.0
31	---	---	---	25.5	19.5	22.0	19.5	16.0	18.0	---	---	---
MONTH	21.5	8.5	15.1	25.5	15.5	20.3	---	---	---	22.0	12.5	18.1

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft³/s, May 27, gage height, 8.58 ft; minimum daily, 367 ft³/s, July 30.

e Estimated

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 1999. A crest-stage gage is a device that registers the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharges determined on the basis of current-meter or indirect measurements. The date of maximum discharge, which is usually determined by comparison with data for nearby continuous-record stations, weather records, or by local inquiry, is not published herein. "Period of record" indicates the water years for which the annual maximums have been determined. The following sites are shown in figures 16..

Station Name and Number	Location and Drainage Area	Period of Record (water year)	1999 Measurements			Period of Record Maximum		
			Date	Gage Height (feet)	Discharge (ft ³ /s)	Date	Gage Height (feet)	Discharge (ft ³ /s)
Pyramid and Winnemucca Lakes Basin								
Jumbo Wash near New Washoe City, NV (10348600)	Lat 39°16'58", long 119°44'16", in SW ¹ / ₄ NE ¹ / ₄ sec.04, T.16N., R.20 E., Washoe County, Hydrologic Unit 16050102, 2 mi southeast of New Washoe City. Drainage area is 4.9 mi ² .	1986, 1999	2-9-99	8.25	^E 1.1	7-22-86	--	1,230
Long Valley Canyon Creek near Lockwood, NV (10350100)	Lat 39°30'04", long 119°38'42", in NW ¹ / ₄ NW ¹ / ₄ sec.21, T.19N., R.21E., Storey County, Hydrologic Unit 16050103, 0.75 mi south of U.S. Interstate 80.	1956 1967-78 1986 1995-99	2-9-99	--	^E 2	2-19-86	97.54	5,400
Pyramid Lake tributary near Nixon, NV (10351850)	Lat 39°51'30", long 119°28'32", in SW ¹ / ₄ SE ¹ / ₄ sec.14, T.23 N., R.22 E., Washoe County, Hydrologic Unit 16050103, at bridge on former Southern Pacific Railroad right-of-way, 6.5 mi west of Nixon. Drainage area is 1.94 mi ² .	1968-79 1981-90 1992-99	1-20-99	--	0.07	2-19-86	3.87	^E 950

^E Estimated.

* No evidence of any flow during the water year.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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)
Pyramid and Winnemucca Lakes Basin					
McCrays Canyon near Carson City, NV (10348480)	Franktown Creek	Lat 39°12'13", long 119°52'48", in SW 1/4SW 1/4 sec.32, T.16 N., R.19 E., Washoe County, Hydrologic Unit 16050101, 0.5 mi upstream from mouth, and 6.5 mi northwest of Carson City.	1974-81,	10/07/1998	.41
			1985-92	08/04/1999	.57
			1994-99		

TRUCKEE RIVER PROJECT

Measurements were made during November 1998 and April, August and September 1999 to document flow conditions at principal tributaries, irrigation diversions, and the main stem Truckee River. Measurements determined time of travel on the main stem during dye and gas injection for reaeration studies.

Station Number	Station Name	Latitude	Longitude	Date	Discharge (ft ³ /s)
10339498	Truckee River above Old US 40 Bridge below Truckee, CA	39°21'11"	120°07'17"	09/15/1999	346
10344505	Truckee River at Boca Bridge near Truckee, CA	39°23'07"	120°05'12"	09/15/1999	574
10347310	Dog Creek at Verdi, NV	39°31'28"	119°59'40"	11/16/1998	2.11
10347320	Truckee River at Bridge Street bridge at Verdi, NV	39°31'27"	119°59'32"	09/20/1999	173
10347335	Truckee River below Viking Plant at Verdi, NV	39°31'18"	119°50'25"	11/16/1998	470
10347650	Hunter Creek at mouth near Reno, NV	39°30'16"	119°53'26"	11/16/1998	7.0
10347700	Truckee River above West McCarran Blvd. near Reno, NV	39°30'41"	119°51'41"	08/25/1999	432
10348210	Orr Ditch near Reno, NV	39°30'43"	119°51'11"	11/17/1998	7.75
10349939	Cochran Ditch above Virginia Lake at Reno, NV	39°30'13"	119°48'22"	11/17/1998	2.24
10350050	Truckee River at Lockwood, NV	39°30'36"	119°38'52"	11/17/1998	523
				09/01/1999	647
10350154	Truckee River at Mustang Bridge no 2 near Hafed, NV	39°31'08"	119°37'03"	09/01/1999	562
10350200	Truckee River at Patrick, NV	39°32'49"	119°34'59"	09/01/1999	578
10350400	Truckee River below Tracy, NV	39°33'52"	119°31'02"	08/18/1999	530
				09/01/1999	539
10351010	Truckee Canal below Derby Dam near Wadsworth, NV	39°35'08"	119°26'53"	08/19/1999	134
10351310	Truckee Canal at Painted Rock exit near Wadsworth, NV	39°35'20"	119°21'51"	11/18/1998	48.0
10351619	Truckee River at Painted Rock, NV	39°35'28"	119°21'59"	11/18/1998	475
10351635	Herman Ditch near Wadsworth, NV	39°36'48"	119°18'33"	11/18/1998	e1.5
10351648	Truckee River at Old U.S. Hwy 40 Bridge at Wadsworth, NV	39°37'55"	119°16'54"	08/30/1999	446
--	Truckee River at S-Bar-S Ranch, NV	39°40'53"	119°16'20"	08/30/1999	455
10351690	Truckee River at Dead Ox Wash near Nixon, NV	39°44'14"	119°19'24"	11/19/1998	488
				04/28/1999	2,780
				08/17/1999	469
				08/30/1999	465

e Estimated

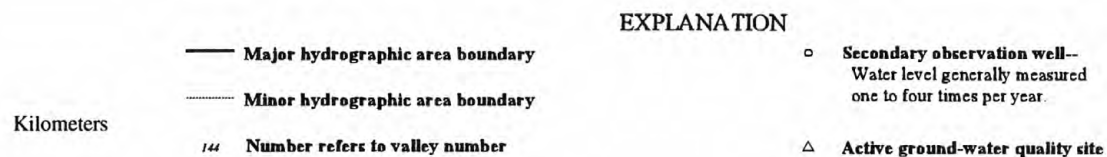
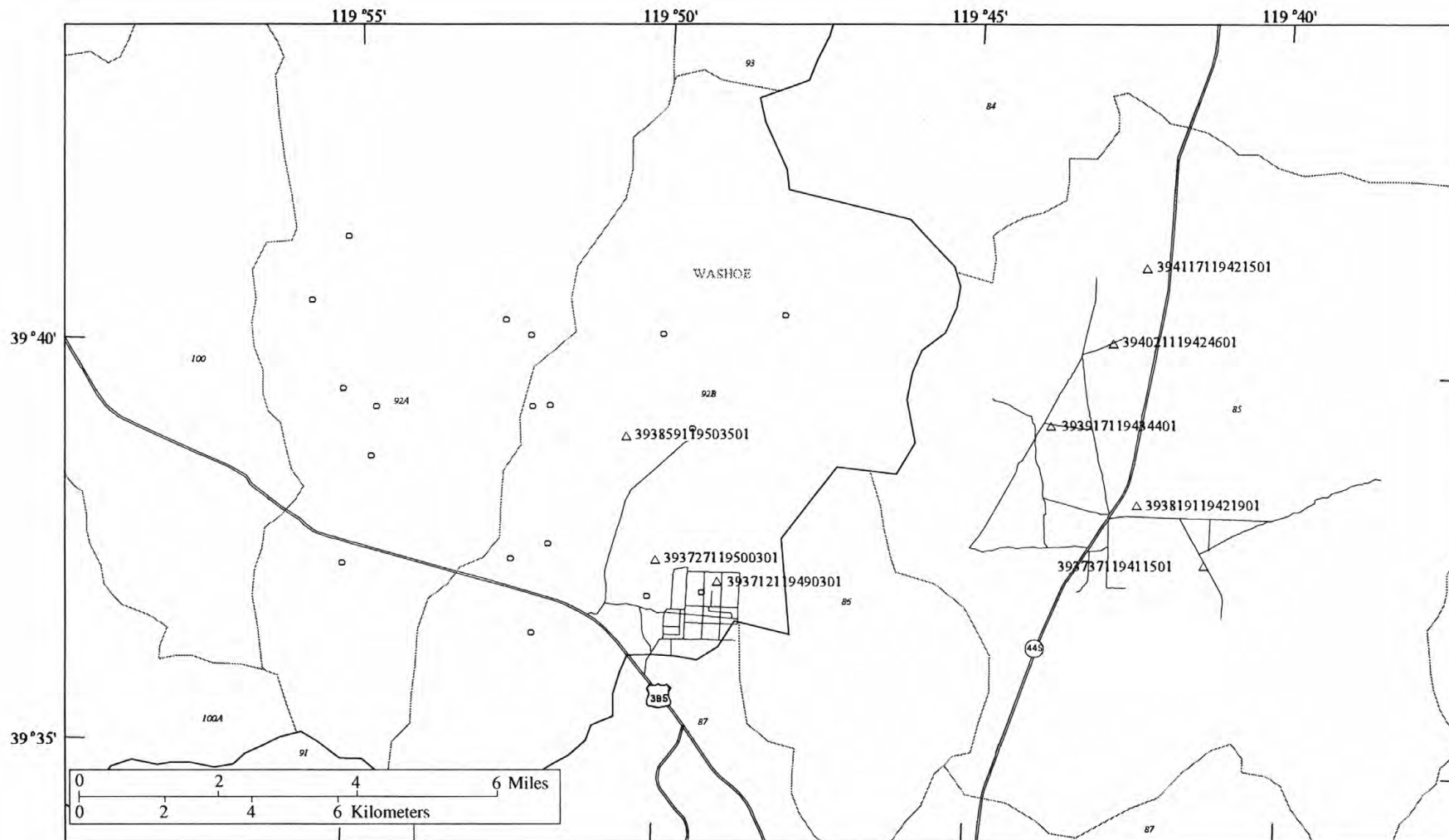


Figure 36. Ground-water sites, southern Washoe County.

PYRAMID AND WINNEMUCCA LAKES BASIN
GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS

County codes: 031, Washoe.

Water-use codes: C, commercial; H, domestic; P, public supply; S, stock; U, unused.

Depths, perforated interval, and elevation: Depths are referenced to land-surface datum (LSD). Well depth, perforated interval, and elevation are rounded to nearest foot. Elevation is that of LSD, with reference to sea level.

Water Levels: Levels above LSD are listed as negative values.

Water Level Status: R, site recently pumped.

Water Level Method: Z, reported by Nevada Division of Water Resources.

Locations of following sites are shown in figures 21 and 36.

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
						Top	Bottom		Date	Feet	Status	Method
89 N16 E19 35ACD 1	391233119484501	1991-99	031	H	76.	52.	72.	5220.	10/05/1998	6.47		Z
									01/04/1999	5.88		Z
									04/09/1999	3.87		Z
									07/08/1999	13.86	R	Z
89 N16 E19 35ACD 2	391233119484502	1991-99	031	H	220.			5240.	10/05/1998	2.18		Z
									01/04/1999	2.35		Z
									04/09/1999	2.40		Z
									07/08/1999	2.22		Z
89 N16 E19 35ADC 1	391232119483401	1991-99	031	P	116.	50.	116.	5250.	10/02/1998	31.60		Z
									01/04/1999	28.52		Z
									04/09/1999	24.17		Z
									07/08/1999	30.24		Z
92A N20 E18 02DDDD1	393718119550601	1981-99	031	H	170.	100.	170.	5222.	10/01/1998	34.73		Z
									01/05/1999	27.15		Z
									04/07/1999	20.31		Z
									07/06/1999	33.27		Z
92A N21 E18 23AADD1	394034119554301	1987-99	031	U	570.	280.	570.	5130.	10/01/1998	199.57		Z
									01/06/1999	195.51		Z
									04/07/1999	190.40		Z
									07/06/1999	195.16		Z
92A N21 E18 25CBBA1	393929119551001	1998-99	031	P	116.	91.	111.	4990.	10/01/1998	41.86		Z
									01/06/1999	40.14		Z
									04/08/1999	38.88		Z
									07/06/1999	38.22		Z
92A N21 E18 36ADDD1	393839119544101	1980-99	031	U	150.	148.	150.	4968.	01/06/1999	3.30		Z
									07/06/1999	5.26		Z
92A N21 E19 18BCBA1	394120119550901	1990-99	031	H	810.			5041.	10/01/1998	132.96		Z
									01/06/1999	111.62		Z
									04/07/1999	105.67		Z
									07/06/1999	123.44		Z
92A N21 E19 20BDCD1	394022119541201	1992-99	031	U	65.	65.	67.	5025.	10/02/1998	51.62		Z
									01/06/1999	51.62		Z
									04/07/1999	51.40		Z
									07/07/1999	51.44		Z
92A N21 E19 20DBDA1	394013119521001	1990-99	031	U	87.	85.	87.	5040.	10/02/1998	54.10		Z
									01/06/1999	54.13		Z
									04/07/1999	53.84		Z
									07/07/1999	53.89		Z
92A N21 E19 30ACCC1	393916119543701	1991-99	031	U	22.	20.	22.	4970.	01/06/1999	8.99		Z
									04/07/1999	7.69		Z
									07/06/1999	8.77		Z
									10/01/1998	16.02		Z
92B N20 E19 05CDAD2	393725119522402	1995-99	031	U				5060.	01/05/1999	15.95		Z
									04/07/1999	12.53		Z
									07/06/1999	15.66		Z
									10/01/1998	39.86		Z
92B N20 E19 05DAAD1	393737119514801	1992-99	031	U				5020.	01/06/1999	38.42		Z
									04/07/1999	35.50		Z
									07/06/1999	39.87		Z
									10/02/1998	71.93		Z
92B N20 E19 10BCAD1	393700119501101	1993-99	031	C				5070.	01/06/1999	66.99		Z
									04/07/1999	64.56		Z

PYRAMID AND WINNEMUCCA LAKES BASIN
GROUND-WATER LEVELS, SECONDARY OBSERVATION WELLS--Continued

Local Well No	Site Identification	Period of Record	County Code	Water use	Well Depth	Perforated Interval (feet)		Elevation (Feet Above Sea Level)	Water Level (Below Land Surface)			
						Top	Bottom		Date	Feet	Status	Method
92B N20 E19 11BCAA1	393704119491801	1994-99	031	H				5125.	10/02/1998	89.03		Z
									01/06/1999	84.05		Z
									04/07/1999	85.05		Z
									07/07/1999	84.48		Z
92B N21 E19 22DBAA1	394017119500201	1985-99	031	U	150.	148.	150.	4919.	10/01/1998	56.87		Z
									01/06/1999	53.92		Z
									04/07/1999	52.79		Z
									07/07/1999	58.26		Z
92B N21 E19 24BADD1	394034119480401	1996-99	031	H				4983.	10/02/1998	105.94		Z
									01/06/1999	105.35		Z
									04/07/1999	105.50		Z
									07/07/1999	105.58		Z
92B N21 E19 26CCDB1	393907119493101	1990-99	031	U	62.	60.	62.	4919.	10/02/1998	48.83		Z
									01/06/1999	45.80		Z
									04/07/1999	43.13		Z
									07/07/1999	48.15		Z
92B N21 E19 28CBCC1	393921119515001	1990-99	031	U	53.	51.	53.	4930.	10/02/1998	16.60		Z
									01/06/1999	15.49		Z
									04/08/1999	14.29		Z
									07/07/1999	14.57		Z
92B N21 E19 29DACB1	393920119520701	1990-99	031	U	84.	82.	84.	5035.	10/01/1998	42.58		Z
									01/06/1999	41.63		Z
									04/07/1999	42.08		Z
									07/07/1999	42.67		Z

QUALITY OF GROUND WATER
WASHOE COUNTY

Water-quality measurements in the following table were made in cooperation with Washoe County, Nevada to identify sources of nitrate in groundwater.

Depths and Water Levels: Depths are referenced to land-surface datum (LSD). The following sites are shown in figure 36.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

STATION NUMBER	LOCAL WELL NUMBER	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)		DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)		TEMPER- ATURE WATER (DEG C) (00010)
393737119411501	85 N20 E20 01DACB1	04-27-99	1745	4491.	125.	655	--	--	--	--
393727119500301	92B N20 E19 03DCB 1	04-22-99	0930	5220.	E350	403.	7.1	15.0		
393712119490301	92B N20 E19 11BAA 1	04-22-99	1115	5230.	245.	352.	7.1	14.5		
393859119503501	92B N21 E19 34BBAB1	10-14-98	0915	4920.	457.	285.	7.4	17.0		

DATE	OXYGEN, DIS- SOLVED (MG/L) (00300)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	ALKA- LITY WAT DIS TOT IT FIELD (MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L) AS SO4 (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	BROMIDE DIS- SOLVED (MG/L) AS BR (71870)
04-27-99	--	26	5.8	96.	4.4	4.1	--	59.	83.	.26	.66
04-22-99	6.8	33	26.	17.	0.5	4.8	140.	16.	17.	<.1	.13
04-22-99	5.9	21	24.	18.	0.6	4.8	124.	13.	11.	.11	.12
10-14-98	.92	17	3.9	42.	2.4	2.7	--	43.	6.5	.16	.07

DATE	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS B (00608)	BORON, DIS- SOLVED (UG/L) AS B (01020)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
04-27-99	54.	420.	410.	<.01	1.8	.002	100	<10.	<3.	--	--
04-22-99	37.	280.	270.	<.01	7.2	.002	21	<10.	<3.	-113.8	-14.37
04-22-99	33.	240.	230.	<.01	6.3	.005	42	E5.6	E1.9	-113.8	-14.26
10-14-98	39.	220.	220.	<.01	.96	<.002	36	<10.	<3.	-117.7	-15.05

STATION NUMBER	LOCAL WELL NUMBER	DATE	TIME	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)		DEPTH OF WELL, TOTAL (FEET) (72008)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N (00631)	
394117119421501	85 N21 E20 14BDDA1	10-01-98	1355	4515.	227.	644	27.		
394021119424601	85 N21 E20 23BCCD1	10-01-98	1305	4520.	208.	491	3.4		
393917119434401	85 N21 E20 27CBDA1	10-01-98	1215	4573.	234.	405	2.8		
393819119421901	85 N21 E20 35CDAD1	10-01-98	1030	4490.	52.	1300	11.		

E Estimated

BLACK ROCK DESERT

10352500 MCDERMITT CREEK NEAR MCDERMITT, NV

LOCATION.--Lat 41°58'00", long 117°50'01", in SE 1/4 SE 1/4 sec.8, T.47 N., R.37 E., Humboldt County, Hydrologic Unit 16040201, on left bank, approximately 100 feet upstream from highway bridge on Cordero Mine Road, and 6.5 mi southwest of McDermitt.

DRAINAGE AREA.--225 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 good except for estimated daily discharges, which are poor. One diversion for about 1,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,970 ft³/s, about February 1, 1963, gage height, 8.64 ft; in gage well, from rating curve extended above 250 ft³/s on basis of slope-area measurement of peak flow; maximum gage height, 9.22 ft, about March 17, 1993; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 17	1930	200	4.20	Apr 26	0745	164	4.05
Mar 04	0100	*586	*5.37	May 04	0130	210	4.24
Mar 26	0045	382	4.82				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	12	19	e15	26	286	72	95	71	18	3.0	4.8
2	8.6	13	20	e18	26	211	64	113	75	17	3.3	5.0
3	8.2	13	e19	e20	28	178	67	140	103	16	3.2	5.0
4	8.5	13	e17	e17	20	183	57	142	111	15	3.1	4.9
5	8.6	13	e15	e14	12	79	63	97	86	14	3.4	4.8
6	8.7	12	e13	e14	16	62	61	92	75	13	3.5	4.6
7	8.7	13	e10	e14	31	57	62	93	66	12	3.6	4.5
8	8.6	16	e8.0	e15	42	52	79	86	62	11	4.0	4.4
9	8.5	13	e7.0	e18	142	49	62	79	56	12	3.6	4.3
10	8.7	12	e9.0	e17	71	44	54	77	53	11	3.2	4.3
11	8.8	14	e11	e16	46	45	55	78	49	9.6	3.7	4.4
12	8.9	14	e12	e14	43	41	84	79	46	9.0	6.3	4.3
13	9.1	14	e12	e14	31	44	140	71	44	7.9	5.3	4.3
14	9.1	14	e12	e15	28	43	169	64	44	6.5	5.2	4.1
15	9.2	15	e11	e14	26	50	135	71	41	6.3	5.6	4.0
16	9.2	14	e10	e17	27	91	139	73	43	6.1	5.7	3.9
17	9.2	13	e10	e18	106	94	161	63	49	5.4	5.0	3.8
18	9.1	14	e10	19	97	126	183	61	43	5.4	4.2	3.9
19	9.3	13	e8.0	24	84	175	193	66	39	4.2	4.5	3.9
20	9.4	13	e9.0	20	47	183	194	71	36	5.8	4.7	3.8
21	9.4	13	e9.0	18	36	186	152	71	37	6.0	4.5	3.9
22	9.9	14	e8.0	18	26	178	116	76	38	5.5	4.5	3.9
23	9.7	15	e8.0	33	29	185	100	81	33	5.1	4.6	3.9
24	9.9	17	e8.0	30	86	197	109	86	30	4.7	4.9	3.9
25	15	18	e10	50	98	231	113	92	27	4.5	4.7	3.8
26	13	15	e14	49	47	298	143	100	26	3.9	4.6	3.8
27	12	15	e15	43	48	235	136	88	24	3.8	4.7	4.2
28	13	16	e16	36	155	143	114	87	22	3.4	4.7	4.6
29	13	17	e15	30	---	111	100	87	21	2.3	4.6	4.8
30	12	17	e14	30	---	109	95	87	19	2.8	4.3	4.8
31	12	---	e14	31	---	83	---	77	---	2.5	4.4	---
TOTAL	306.8	425	373.0	701	1474	4049	3272	2643	1469	249.7	134.6	128.6
MEAN	9.90	14.2	12.0	22.6	52.6	131	109	85.3	49.0	8.05	4.34	4.29
MAX	15	18	20	50	155	298	194	142	111	18	6.3	5.0
MIN	8.2	12	7.0	14	12	41	54	61	19	2.3	3.0	3.8
AC-FT	609	843	740	1390	2920	8030	6490	5240	2910	495	267	255

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1999, BY WATER YEAR (WY)

MEAN	4.55	7.08	11.8	22.6	44.5	82.8	99.9	77.2	36.5	9.84	3.08	2.74
MAX	10.0	17.3	50.9	108	302	353	600	310	140	46.5	15.4	9.96
(WY)	1984	1984	1956	1997	1986	1993	1952	1984	1983	1984	1983	1984
MIN	.69	2.06	2.46	2.26	4.82	6.63	4.08	2.74	.77	.14	.000	.000
(WY)	1982	1993	1950	1950	1955	1992	1992	1992	1992	1992	1992	1960

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1949 - 1999
ANNUAL TOTAL	22128.3	15225.7	
ANNUAL MEAN	60.6	41.7	33.4
HIGHEST ANNUAL MEAN			98.2
LOWEST ANNUAL MEAN			4.11
HIGHEST DAILY MEAN	609	Mar 24	2800
LOWEST DAILY MEAN	3.9	Jan 8	.00
ANNUAL SEVEN-DAY MINIMUM	5.0	Jan 5	.00
INSTANTANEOUS PEAK FLOW		586	Mar 4
INSTANTANEOUS PEAK STAGE		5.37	Mar 4
ANNUAL RUNOFF (AC-FT)	43890	30200	24220
10 PERCENT EXCEEDS	185	110	89
50 PERCENT EXCEEDS	16	16	8.5
90 PERCENT EXCEEDS	7.4	4.3	1.8

e Estimated

SUMMIT LAKE BASIN
10353750 MAHOGANY CREEK NEAR SUMMIT LAKE, NV

LOCATION.--Lat 41°32'42", long 119°00'34", in SE 1/4 NE 1/4 sec.21, T.42 N., R.26 E., Humboldt County, Hydrologic Unit 16040202, on right bank, 2.8 mi northeast of Summit Lake, and 78 mi north of Gerlach.

DRAINAGE AREA.--13.3 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 fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50 ft³/s, June 5, 1995, gage height, 5.34 ft; maximum gage height, 5.56 ft, June 17, 1998, backwater effect from tree; minimum daily, 0.32 ft³/s, August 1, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29 ft³/s, June 4, gage height, 5.05 ft; minimum daily, 2.3 ft³/s, several days in September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	4.0	4.0	3.3	3.1	4.2	4.3	7.5	22	7.9	3.5	2.7
2	4.1	3.9	3.9	3.3	3.1	3.9	4.2	8.4	22	7.8	3.4	2.7
3	4.1	3.8	4.2	3.3	3.1	3.8	4.1	8.0	22	7.8	3.4	2.7
4	4.1	4.0	3.5	3.2	3.1	3.7	4.0	7.7	27	7.7	3.3	2.7
5	4.0	3.9	e3.5	3.2	3.1	3.6	4.1	7.6	23	7.5	3.3	2.6
6	4.0	3.7	3.6	3.1	3.1	3.6	4.0	8.1	19	7.0	3.4	2.5
7	3.9	3.8	3.8	3.1	3.3	3.6	4.2	8.9	17	6.8	3.7	2.5
8	3.9	3.9	4.0	3.1	3.3	3.5	4.2	9.2	17	6.6	3.4	2.5
9	3.9	3.9	3.9	3.0	3.3	3.5	4.0	9.1	16	6.3	3.2	2.4
10	4.0	4.0	3.8	3.1	e3.3	3.5	4.0	8.9	16	6.0	3.2	2.5
11	4.0	4.0	3.8	3.1	e3.3	3.5	4.2	8.7	15	5.7	3.4	2.5
12	3.7	3.7	3.8	3.1	3.2	3.4	4.5	9.0	14	5.5	3.3	2.4
13	3.7	4.1	3.8	3.1	3.2	3.6	4.7	8.9	14	5.4	3.1	2.4
14	3.8	4.2	3.7	3.0	3.2	3.6	4.7	8.8	15	5.2	3.1	2.4
15	3.8	4.0	3.6	3.1	3.2	3.7	4.8	8.6	15	5.1	3.0	2.4
16	3.8	3.9	3.6	3.2	3.2	3.7	5.2	8.4	16	5.0	2.9	2.3
17	3.7	4.0	3.6	3.2	3.2	3.9	6.0	8.7	15	4.9	2.8	2.3
18	3.8	3.8	3.3	3.2	3.3	4.1	6.8	9.4	15	4.8	2.7	2.3
19	3.8	3.4	3.3	3.1	3.2	4.3	7.5	10	15	4.7	2.7	2.3
20	3.8	3.9	e3.3	3.2	3.2	4.2	8.1	11	14	4.6	2.6	2.3
21	3.8	3.8	e3.3	3.2	3.3	4.1	7.8	12	14	4.5	2.6	2.3
22	3.7	3.8	e3.2	3.2	3.2	4.1	7.2	12	13	4.3	2.6	2.3
23	3.7	3.9	e3.2	3.3	3.2	4.2	6.9	14	12	4.2	2.5	2.3
24	4.0	3.9	3.2	3.2	3.2	4.2	7.1	16	11	4.2	2.5	2.3
25	4.2	3.7	3.4	3.2	3.3	4.6	7.7	17	11	4.1	2.5	2.3
26	4.1	3.7	3.5	3.2	3.3	4.7	8.3	18	10	4.0	2.4	2.4
27	4.0	3.8	3.4	3.2	3.4	4.5	8.1	19	9.6	3.9	2.5	2.5
28	4.0	3.8	3.4	3.1	4.0	4.4	7.7	20	9.1	3.8	2.6	2.5
29	3.9	3.6	3.4	3.2	---	4.4	7.5	22	8.7	3.8	2.5	2.5
30	3.8	4.3	3.4	3.2	---	4.4	7.4	23	8.2	3.7	2.5	2.4
31	3.7	---	3.4	3.1	---	4.2	---	22	---	3.7	2.7	---
TOTAL	120.9	116.2	110.8	98.1	90.9	122.7	173.3	369.9	455.6	166.5	91.3	73.2
MEAN	3.90	3.87	3.57	3.16	3.25	3.96	5.78	11.9	15.2	5.37	2.95	2.44
MAX	4.2	4.3	4.2	3.3	4.0	4.7	8.3	23	27	7.9	3.7	2.7
MIN	3.7	3.4	3.2	3.0	3.1	3.4	4.0	7.5	8.2	3.7	2.4	2.3
AC-FT	240	230	220	195	180	243	344	734	904	330	181	145

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

MEAN	1.75	1.79	1.65	1.74	1.88	2.65	4.01	9.91	9.73	4.25	1.96	1.67
MAX	3.90	3.87	3.57	3.55	3.25	3.96	6.90	27.9	29.2	13.7	5.41	4.33
(WY)	1999	1999	1999	1997	1999	1999	1996	1998	1998	1998	1998	1998
MIN	.83	.90	.90	1.04	1.28	1.42	1.96	1.36	.82	.55	.39	.46
(WY)	1993	1993	1995	1993	1989	1991	1994	1992	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1987 - 1999

ANNUAL TOTAL	3198.9	1989.4	
ANNUAL MEAN	8.76	5.45	3.59
HIGHEST ANNUAL MEAN			8.41
LOWEST ANNUAL MEAN			1.21
HIGHEST DAILY MEAN	36 May 14	27 Jun 4	47 Jun 5 1995
LOWEST DAILY MEAN	1.8 Jan 4	2.3 Sep 16	.32 Aug 1 1992
ANNUAL SEVEN-DAY MINIMUM	1.9 Jan 4	2.3 Sep 16	.33 Jul 31 1992
INSTANTANEOUS PEAK FLOW		29 Jun 4	50 Jun 5 1995
INSTANTANEOUS PEAK STAGE		5.05 Jun 4	5.56 Jun 17 1998
ANNUAL RUNOFF (AC-FT)	6350	3950	2600
10 PERCENT EXCEEDS	29	11	7.5
50 PERCENT EXCEEDS	4.1	3.8	2.0
90 PERCENT EXCEEDS	2.0	2.6	.89

e Estimated

HUALAPAI FLAT

10353770 SOUTH WILLOW CREEK NEAR GERLACH, NV

LOCATION.--(REVISED) Lat 41°01'03", long 119°21'05", 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 6.00 ft lower.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,730 ft³/s, January 31, 1963, gage height, 7.30 ft; no flow many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of unknown date reached a stage of 15.4 ft, present datum, from floodmarks, estimated discharge, 3,100 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35 ft³/s, February 9, gage height, 4.95 ft; no flow many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.1	1.2	.40	2.4	4.3	1.0	1.2	.37	e.04	e.00	.00
2	.84	1.0	1.3	.44	2.5	2.4	.99	1.3	.45	e.04	.00	.00
3	.63	1.1	1.4	.44	2.6	1.8	1.1	1.4	.96	e.04	.00	.00
4	1.2	.79	.87	.44	2.6	1.3	.87	1.3	.93	e.04	.00	.00
5	1.1	.98	.61	.48	2.6	.88	1.2	1.1	.64	e.04	.00	.00
6	1.3	.93	.52	.52	2.8	.94	1.0	.93	.58	e.03	.01	.00
7	1.3	.93	.47	.57	4.0	.76	1.1	.87	.54	e.03	.03	.00
8	1.1	.90	.43	.54	3.8	.77	1.1	.92	.52	e.03	.00	.00
9	1.2	.80	.48	.56	13	.95	.75	1.0	.49	e.03	.01	.00
10	1.2	.92	.50	.58	2.5	.67	.86	1.1	.39	e.03	.04	.00
11	1.2	1.0	.46	.72	1.6	.65	.91	1.2	.35	e.02	.09	.00
12	1.1	.70	.51	.73	1.1	.60	.91	1.1	.33	e.02	.08	.00
13	1.1	.72	.54	.83	1.1	.60	.94	1.1	.29	e.02	.06	.00
14	.81	.76	.62	.95	.92	.76	1.0	1.1	.27	e.02	.08	.00
15	.53	.80	.60	1.0	.75	.75	1.0	1.1	.24	e.02	.07	.00
16	.63	.83	.70	1.1	1.0	.89	1.0	.84	.21	e.02	.08	.00
17	.64	.72	.74	1.2	5.0	.94	1.0	.71	.18	e.02	.08	.00
18	.49	.69	.67	1.2	4.2	1.1	1.1	.60	.16	e.02	.08	.00
19	.60	.66	.53	1.2	2.4	1.3	1.2	.52	.14	e.02	.06	.00
20	1.1	1.2	.40	1.4	1.7	1.4	1.2	.49	.11	e.03	.03	.00
21	1.3	1.2	e.00	1.5	1.4	1.4	1.2	.45	.10	e.02	.02	.00
22	1.1	1.3	e.00	1.5	1.4	1.4	1.4	.42	.10	e.02	.03	.00
23	1.1	.90	e.00	8.2	2.1	1.3	1.3	.40	.10	e.02	.02	.00
24	1.3	.78	e.00	4.1	4.0	1.3	1.3	.34	.09	e.02	.02	.00
25	1.7	.97	.14	3.5	2.8	1.2	1.2	.38	e.08	e.02	.02	.00
26	1.5	1.3	.29	3.5	1.7	1.3	1.3	.38	e.07	e.02	.00	.00
27	1.3	1.2	.32	2.9	1.8	1.3	.80	.32	e.06	e.02	.00	.00
28	.77	1.3	.31	2.9	5.1	1.2	.90	.32	e.05	e.01	.00	.00
29	.97	1.2	.29	2.7	---	1.2	1.2	.35	e.05	e.00	.00	.00
30	1.2	1.3	.33	2.8	---	1.2	1.3	.35	e.05	e.01	.00	.00
31	1.1	---	.39	2.7	---	1.1	---	.35	---	e.01	.00	---
TOTAL	32.51	28.98	15.62	51.60	78.87	37.66	32.13	23.94	8.90	0.73	0.91	0.00
MEAN	1.05	.97	.50	1.66	2.82	1.21	1.07	.77	.30	.024	.029	.000
MAX	1.7	1.3	1.4	8.2	13	4.3	1.4	1.4	.96	.04	.09	.00
MIN	.49	.66	.00	.40	.75	.60	.75	.32	.05	.00	.00	.00
AC-FT	64	57	31	102	156	75	64	47	18	1.4	1.8	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1973	.077	1.05	1999	.000	1974
1974	.16	1.85	1984	.000	1974
1975	.43	8.24	1984	.000	1974
1976	1.23	10.4	1995	.000	1975
1977	3.35	30.9	1986	.000	1976
1978	3.24	14.3	1983	.000	1977
1979	1.33	4.75	1995	.000	1977
1980	1.53	13.6	1995	.007	1977
1981	.55	3.41	1983	.000	1992
1982	.12	1.04	1995	.000	1974
1983	.025	.19	1998	.000	1973
1984	.029	.51	1998	.000	1973

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1973 - 1999

ANNUAL TOTAL	824.32	311.85	
ANNUAL MEAN	2.26	.85	.99
HIGHEST ANNUAL MEAN			3.70
LOWEST ANNUAL MEAN			.004
HIGHEST DAILY MEAN	24	13	279
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.11	.00	.00
INSTANTANEOUS PEAK FLOW		35	1730
INSTANTANEOUS PEAK STAGE		4.95	7.30
ANNUAL RUNOFF (AC-FT)	1640	619	719
10 PERCENT EXCEEDS	5.4	1.5	2.2
50 PERCENT EXCEEDS	1.1	.70	.04
90 PERCENT EXCEEDS	.17	.00	.00

e Estimated

SMOKE CREEK DESERT

10353800 SMOKE CREEK BELOW RESERVOIR NEAR SMOKE CREEK, NV

LOCATION.--Lat 40°30'33", long 119°52'24", in NE 1/4 NW 1/4 sec.5, T.30 N., R.19 E., Washoe County, Hydrologic Unit 16040203, on left bank, 11.2 mi south of Buffalo Creek Ranch, and 38.1 mi southwest of Gerlach.

DRAINAGE AREA.--50.1 mi², approximately.

PERIOD OF RECORD.--December 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,320 ft³/s, March 9, 1995, gage height, 8.43 ft; no flow many days, most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of February 1986 reached a stage of 9.00 ft, present datum, from floodmarks; discharge 2,270 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 616 ft³/s, February 10, gage height, 6.14 ft; no flow many days in August and September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

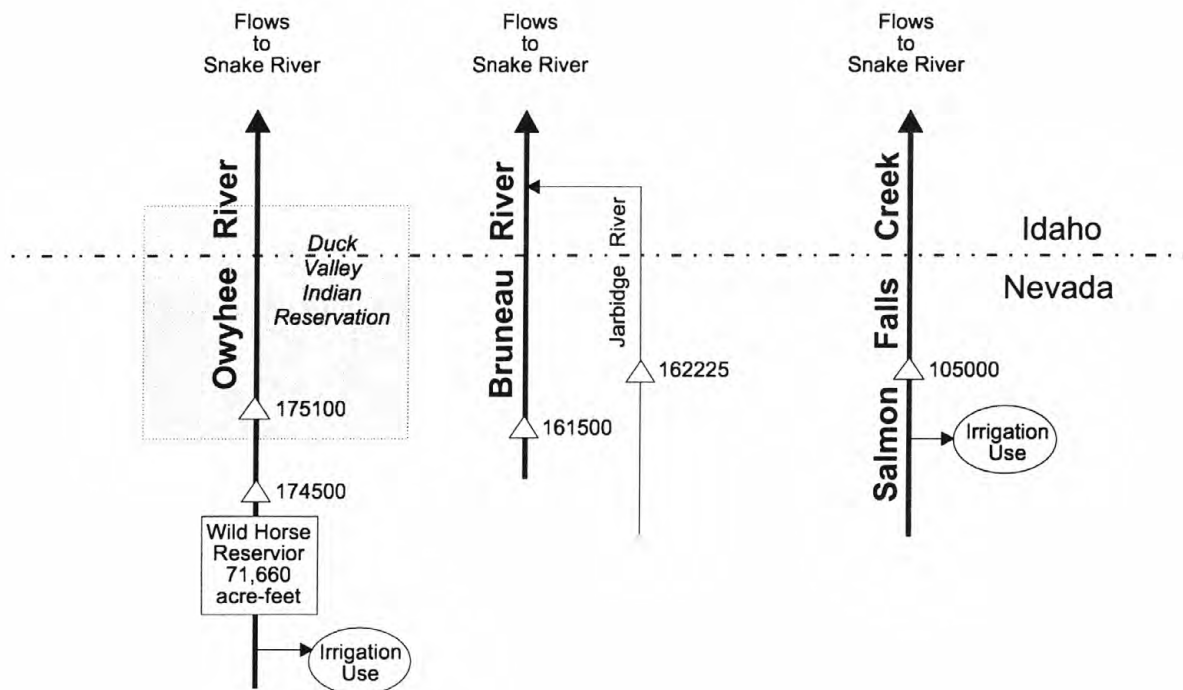
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	7.9	11	e14	e13	28	13	9.4	4.9	2.5	1.9	.00
2	6.4	7.6	11	e13	13	35	12	9.2	5.1	2.3	1.9	.00
3	6.4	7.5	12	e13	13	27	12	10	6.0	2.0	2.0	.00
4	6.4	7.5	12	e13	13	22	12	10	7.2	2.1	2.1	.00
5	6.4	7.5	e12	e13	14	19	12	9.5	7.1	2.2	2.5	.00
6	6.4	7.1	e12	e13	14	16	12	8.9	6.3	2.2	3.5	.00
7	6.4	7.8	e12	e12	18	15	13	8.4	5.5	2.1	3.9	e.50
8	6.3	8.9	e12	e12	55	14	12	8.0	5.3	2.1	4.0	1.7
9	6.4	9.0	e12	e12	183	14	11	7.6	5.6	1.9	4.0	2.0
10	6.4	8.8	e12	e12	409	15	11	7.4	5.5	1.8	4.0	2.0
11	6.4	9.2	e12	e11	107	15	12	7.8	5.1	1.4	4.0	1.5
12	6.4	8.9	e13	11	33	14	11	7.9	5.0	1.6	4.5	.00
13	6.4	8.8	e13	11	20	13	11	7.8	4.9	1.7	6.6	.00
14	6.8	8.5	e13	10	17	13	9.9	7.4	4.8	1.7	1.6	.00
15	6.8	8.4	e13	11	19	13	8.8	7.6	4.3	1.7	e.50	.00
16	6.8	8.4	e13	13	26	13	9.0	7.7	4.3	1.6	.00	.00
17	6.8	8.4	e13	13	32	13	9.0	7.4	4.2	1.6	.00	.00
18	6.8	8.4	e13	14	56	13	8.9	7.2	4.1	1.6	.00	.00
19	6.8	8.3	e13	15	65	12	8.7	6.8	4.0	1.7	.00	.00
20	6.8	8.4	e13	20	52	12	8.7	6.8	4.1	1.8	.00	.00
21	6.8	8.4	e13	45	42	12	8.8	6.4	4.0	1.8	.00	.00
22	7.0	9.3	e13	39	29	12	9.0	6.0	3.8	1.8	.00	.00
23	6.8	10	e13	75	23	12	9.6	5.4	3.3	1.8	.00	.00
24	7.4	12	e14	121	22	12	9.0	5.3	3.0	1.8	.00	.00
25	7.8	11	e14	53	22	12	8.8	5.4	2.8	1.9	.00	.00
26	7.9	11	e14	33	23	12	9.1	5.3	2.9	2.0	.00	.00
27	7.5	11	e14	20	24	11	9.5	5.3	2.8	1.9	.00	.00
28	7.5	12	e14	16	21	11	9.6	5.1	2.8	1.9	.00	.00
29	7.6	12	e14	e15	---	11	9.7	5.1	2.8	1.8	.00	.00
30	7.9	12	14	15	---	11	9.4	5.2	2.7	1.8	.00	.00
31	7.9	---	14	14	---	12	---	5.1	---	1.9	.00	---
TOTAL	212.8	274.0	398	702	1378	464	309.5	222.4	134.2	58.0	47.00	7.70
MEAN	6.86	9.13	12.8	22.6	49.2	15.0	10.3	7.17	4.47	1.87	1.52	.26
MAX	7.9	12	14	121	409	35	13	10	7.2	2.5	6.6	2.0
MIN	6.3	7.1	11	10	13	11	8.7	5.1	2.7	1.4	.00	.00
AC-FT	422	543	789	1390	2730	920	614	441	266	115	93	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	2.52	3.37	9.33	32.4	46.7	49.4	17.2	18.8	3.68	1.37	1.39	1.64
MAX	6.86	10.8	35.1	167	196	162	66.0	106	18.9	4.82	4.85	5.55
(WY)	1999	1996	1997	1995	1996	1993	1995	1995	1998	1995	1995	1998
MIN	.000	.000	.000	1.35	3.96	2.95	1.32	.005	.000	.000	.000	.000
(WY)	1991	1991	1995	1993	1992	1992	1990	1994	1990	1991	1989	1989

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1989 - 1999
ANNUAL TOTAL	5691.7	4207.60	
ANNUAL MEAN	15.6	11.5	16.3
HIGHEST ANNUAL MEAN			51.1
LOWEST ANNUAL MEAN			1.41
HIGHEST DAILY MEAN	593	May 7	1790
LOWEST DAILY MEAN	3.2	Aug 12	.00
ANNUAL SEVEN-DAY MINIMUM	3.3	Aug 7	.00
INSTANTANEOUS PEAK FLOW		616	4320
INSTANTANEOUS PEAK STAGE		6.14	8.43
ANNUAL RUNOFF (AC-FT)	11290	8350	11820
10 PERCENT EXCEEDS	23	16	27
50 PERCENT EXCEEDS	9.9	7.9	3.6
90 PERCENT EXCEEDS	3.7	.00	.00

e Estimated



EXPLANATION

△ Active gaging station with abbreviated number--
105000 Complete designation includes Part number 13
(Snake River Basin) as first two digits.

Figure 37. Schematic diagram of flow system and gaging stations in the Snake River Basin.

SALMON FALLS CREEK BASIN
13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ 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 above sea level, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910 to September 30, 1916, October 1, 1918 to August 28, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Station equipment includes satellite telemetry. Diversions above station for irrigation of about 18,200 acres (1966 determination). Salmon Dam of Salmon River Canal Co. is 15 mi downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft³/s May 16, 1984, gage height, 14.27 ft; minimum, 2.6 ft³/s September 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 713 ft³/s May 31; minimum daily, 18 ft³/s September 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	64	73	75	80	205	228	499	644	130	35	23
2	53	68	72	70	71	218	213	507	601	116	34	22
3	55	69	71	55	76	170	203	587	663	103	34	23
4	58	68	73	56	77	131	195	688	675	92	34	21
5	59	67	62	65	78	111	183	699	554	81	39	25
6	58	68	62	69	78	102	195	618	508	76	40	33
7	58	67	62	67	80	99	200	565	535	69	35	34
8	57	68	62	67	87	97	205	548	490	57	36	34
9	56	68	60	66	87	95	213	554	462	54	34	34
10	57	67	49	66	101	94	189	562	429	57	31	34
11	58	65	55	67	79	91	205	543	394	62	33	39
12	58	67	69	68	81	89	216	510	364	57	35	39
13	58	66	67	67	82	86	220	505	353	54	35	39
14	57	65	68	66	84	94	231	516	337	50	32	39
15	58	66	67	67	84	112	248	508	332	50	30	33
16	58	68	65	110	81	125	255	490	349	48	30	32
17	58	67	67	97	85	144	260	453	356	40	30	32
18	59	68	64	82	95	150	283	421	344	39	30	32
19	59	67	44	83	86	181	328	417	316	39	30	34
20	59	66	39	84	80	232	388	428	295	38	24	35
21	59	65	36	85	79	265	445	443	274	39	21	35
22	60	67	39	80	79	265	461	457	261	39	20	34
23	61	70	e40	81	79	268	424	459	246	38	20	36
24	62	70	e40	80	91	272	388	486	232	38	20	36
25	63	70	e42	79	129	292	369	533	213	38	22	37
26	64	69	e46	77	112	338	365	578	194	36	22	42
27	64	68	e50	79	94	368	402	633	185	36	19	44
28	64	68	e60	66	103	320	437	627	171	35	19	45
29	66	70	e65	66	---	274	460	657	160	35	19	46
30	65	72	75	68	---	252	462	670	147	34	18	46
31	64	---	77	76	---	240	---	713	---	34	19	---
TOTAL	1838	2028	1821	2284	2418	5780	8871	16874	11084	1714	880	1038
MEAN	59.3	67.6	58.7	73.7	86.4	186	296	544	369	55.3	28.4	34.6
MAX	66	72	77	110	129	368	462	713	675	130	40	46
MIN	53	64	36	55	71	86	183	417	147	34	18	21
AC-FT	3650	4020	3610	4530	4800	11460	17600	33470	21990	3400	1750	2060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 1999, BY WATER YEAR (WY)

MEAN	49.5	58.8	58.9	69.1	98.7	166	350	466	281	64.3	28.2	32.5
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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1910 - 1999

ANNUAL TOTAL	66821	56630	
ANNUAL MEAN	183	155	143
HIGHEST ANNUAL MEAN			439
LOWEST ANNUAL MEAN			45.4
HIGHEST DAILY MEAN	1080	May 17	3620
LOWEST DAILY MEAN	15	Sep 2	3.2
ANNUAL SEVEN-DAY MINIMUM	19	Aug 29	5.7
ANNUAL RUNOFF (AC-FT)	132500	112300	103900
10 PERCENT EXCEEDS	568	459	402
50 PERCENT EXCEEDS	69	69	63
90 PERCENT EXCEEDS	37	34	26

e Estimated

BRUNEAU RIVER BASIN
13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'25", in NW 1/4 SE 1/4 sec.29, T.47 N., R.56 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on left bank, 2 mi upstream from McDonald Creek, and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,500 ft above 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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft³/s, May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft³/s, September 18, 1981.

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 26	20:30	378	4.68	May 08	00:59	431	4.87
Apr 20	22:44	411	4.82	May 30	03:29	*634	*5.64

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	34	45	36	e36	63	163	298	390	88	18	12
2	26	38	43	37	37	70	152	350	401	81	17	13
3	28	36	42	e36	e38	73	147	374	493	77	16	13
4	30	35	42	e36	e39	73	130	359	447	73	17	14
5	30	38	34	e35	41	77	139	345	373	69	19	13
6	29	38	50	e35	41	92	134	365	369	65	17	12
7	28	37	52	35	e41	90	138	394	370	61	17	11
8	28	38	55	34	e41	69	147	399	336	58	17	12
9	28	37	52	33	e40	68	144	371	312	55	16	11
10	28	34	47	34	e40	58	132	347	292	52	15	11
11	28	37	e41	34	40	59	138	325	276	49	18	11
12	28	35	e36	35	e41	53	141	323	262	46	20	11
13	28	36	e32	34	e32	56	162	348	259	43	18	11
14	28	37	e29	32	e44	62	185	322	267	42	15	11
15	29	39	e28	e32	46	82	192	319	278	43	15	11
16	29	39	e27	e32	47	97	207	294	284	40	14	11
17	29	38	e26	e32	e46	134	242	274	272	37	13	11
18	29	39	e25	e32	e44	152	287	284	253	35	12	11
19	30	37	25	e32	e43	218	335	302	235	34	13	13
20	30	35	e25	e32	42	295	374	324	216	31	13	12
21	30	39	e24	e32	e44	334	371	350	199	28	11	12
22	31	44	e23	e32	45	264	316	387	183	26	12	12
23	34	42	e23	e32	50	220	279	410	164	25	11	12
24	33	44	e23	e32	49	238	257	448	147	24	11	12
25	35	41	e23	e32	52	288	263	492	137	23	11	12
26	35	40	e23	e32	48	336	320	483	128	22	11	12
27	34	40	e23	e33	48	304	332	480	119	21	10	13
28	34	40	e24	33	53	238	322	469	109	20	11	15
29	36	41	e25	e34	---	205	289	479	100	20	11	15
30	35	43	e27	e35	---	192	271	544	94	19	9.0	15
31	33	---	e30	e36	---	177	---	441	---	19	8.8	---
TOTAL	939	1151	1024	1041	1219	4737	6709	11700	7765	1326	436.8	365
MEAN	30.3	38.4	33.0	33.6	43.5	153	224	377	259	42.8	14.1	12.2
MAX	36	44	55	37	53	336	374	544	493	88	20	15
MIN	26	34	23	32	36	53	130	274	94	19	8.8	11
AC-FT	1860	2280	2030	2060	2420	9400	13310	23210	15400	2630	866	724

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1999, BY WATER YEAR (WY)

	MEAN	22.3	28.4	29.3	40.3	56.9	165	319	398	223	55.2	17.7	15.2
MAX	52.2	58.5	56.3	137	276	608	666	1256	744	257	86.5	39.8	
(WY)	1985	1985	1976	1971	1986	1972	1914	1984	1984	1984	1984	1984	
MIN	7.78	13.0	11.9	12.0	22.4	37.4	55.0	50.4	14.7	5.60	3.60	3.87	
(WY)	1993	1968	1993	1992	1988	1981	1968	1992	1992	1992	1981	1981	

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1913 - 1999

ANNUAL TOTAL	53203	38412.8	
ANNUAL MEAN	146	105	114
HIGHEST ANNUAL MEAN			290
LOWEST ANNUAL MEAN			24.2
HIGHEST DAILY MEAN	826	May 12	2070
LOWEST DAILY MEAN	14	Sep 4	2.5
ANNUAL SEVEN-DAY MINIMUM	15	Aug 30	2.8
INSTANTANEOUS PEAK FLOW			634
INSTANTANEOUS PEAK STAGE			5.64
ANNUAL RUNOFF (AC-FT)	105500	76190	82810
10 PERCENT EXCEEDS	476	324	350
50 PERCENT EXCEEDS	41	39	36
90 PERCENT EXCEEDS	24	13	11

e Estimated

BRUNEAU RIVER BASIN
13161500 BRUNEAU RIVER AT ROWLAND NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977-84, April 1998 to current year.

REMARKS.--In April 1998, station was established in cooperation with the U.S. Forest Service to collect sediment data.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	NUMBER OF SAM- PLING POINTS (COUNT) (00063)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONG/ DAY) (80225)	SED. BEDLOAD DIAM. % FINER THAN (80226)	SED. BEDLOAD DIAM. % FINER THAN (80227)	SED. BEDLOAD DIAM. % FINER THAN (80228)
MAY												
28...	1056	366	--	--	--	--	--	--	--	--	--	--
28...	1111	416	25	22.0	5.5	37	20	.25	20	.0	.1	.5
28...	1148	399	25	22.0	5.5	37	20	.25	18	.0	.0	.4
JUN												
02...	1053	286	--	--	--	--	--	--	--	--	--	--
02...	1105	286	--	--	4.5	42	20	.25	5.6	.0	.0	1.6
02...	1145	286	--	22.0	4.5	42	20	.25	14	.0	.0	.8
04...	1026	189	23	14.0	7.0	41	20	.25	3.2	.0	.1	1.8
04...	1055	189	23	14.0	7.0	41	20	.25	9.0	.0	.1	.9
04...	1141	189	--	--	--	--	--	--	--	--	--	--
08...	0945	179	22	7.0	4.5	43	20	.25	12	.0	.0	1.1
08...	1020	179	22	7.0	4.5	43	20	.25	4.9	.1	.1	2.8
08...	1100	179	--	--	--	--	--	--	--	--	--	--
15...	1025	279	--	--	--	--	--	--	--	--	--	--
15...	1042	279	19	24.0	6.5	41	20	.25	7.0	.0	.1	2.0
15...	1118	299	19	24.0	6.5	41	20	.25	11	.0	.1	1.6
17...	0955	279	--	--	--	--	--	--	--	--	--	--
17...	1013	273	19	17.5	6.0	41	20	.25	13	.0	.0	.7
17...	1045	279	19	17.5	6.0	41	20	.25	4.9	.1	.1	2.0
22...	0905	157	20	17.0	7.0	41	20	.25	.40	.0	.0	2.7
22...	0935	157	20	17.0	7.0	41	20	.25	.77	.0	.0	2.2
DATE		SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SED. BEDLOAD SIEVE DIAM. % FINER THAN (80155)	SED. BEDLOAD SIEVE DIAM. % FINER THAN (70331)
MAY												
28...		--	--	--	--	--	--	--	--	76	75	24
28...	10.6	30.7	52.9	68.9	78.8	84.6	91.4	100	--	--	--	--
28...	9.7	28.5	51.2	70.6	81.5	89.3	98.0	100	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	24	19	30
02...	17.7	46.0	75.2	91.9	97.8	100	100	100	--	--	--	--
02...	7.0	21.2	44.9	62.0	76.6	84.2	87.0	100	--	--	--	--
04...	14.5	36.8	59.8	73.9	90.4	98.1	100	100	--	--	--	--
04...	7.4	21.0	43.3	63.0	79.4	92.1	100	100	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	9	4.6	37
08...	8.9	27.9	56.5	78.6	95.3	100	100	100	--	--	--	--
08...	21.3	44.8	60.5	72.0	84.4	97.9	100	100	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	5	2.4	39
15...	--	--	--	--	--	--	--	--	--	28	21	32
15...	16.3	41.9	71.1	89.0	96.0	97.1	100	100	--	--	--	--
15...	12.7	34.0	61.9	83.2	94.8	100	100	100	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	19	14	32
17...	5.7	18.8	42.1	66.0	83.4	93.4	100	100	--	--	--	--
17...	16.7	40.5	71.3	87.4	96.0	100	100	100	--	--	--	--
22...	20.9	51.0	78.3	94.9	100	100	100	100	7	3.0	29	--
22...	16.7	36.0	61.2	74.9	89.0	89.0	100	100	--	--	--	--

BRUNEAU RIVER BASIN

13162225 JARBIDGE RIVER BELOW JARBIDGE, NV

LOCATION.--Lat 41°53'26", long 115°25'40", in SW 1/4 NW 1/4 sec.09, T.46 N., R.58 E., Elko County, Hydrologic Unit 17050102, Humboldt National Forest, on right bank, 1.0 mi north of Jarbidge.

DRAINAGE AREA.--30.6 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 6,050 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge 824 ft³/s, May 24, gage height, 5.50 ft; minimum daily, 4.0 ft³/s, September 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	9.0	9.3	6.6	e6.8	8.6	14	44	313	43	9.1	5.3
2	7.2	9.9	9.1	6.4	e6.5	8.5	12	66	297	40	8.6	5.5
3	7.8	8.7	9.2	e6.4	6.7	8.6	11	68	280	36	8.2	5.8
4	8.8	8.7	8.1	6.2	6.6	e8.4	11	57	194	33	8.8	5.8
5	9.0	9.3	e7.6	6.2	6.5	e8.3	11	50	155	29	9.0	5.2
6	8.4	9.1	e7.0	6.5	6.7	e8.1	10	59	170	26	8.1	4.8
7	8.2	9.2	e6.9	6.4	7.2	8.0	10	75	183	24	7.8	4.8
8	7.9	9.2	e6.1	6.2	7.1	e7.9	11	87	174	23	7.6	4.7
9	7.6	8.9	e6.2	6.2	e7.1	7.8	10	83	146	21	7.1	4.3
10	7.5	8.7	e6.6	6.4	e7.0	e7.6	20	70	130	19	7.5	4.5
11	7.5	8.7	e7.1	6.5	e6.9	7.5	10	63	138	18	8.6	4.4
12	7.3	8.3	7.9	6.5	e6.9	e7.6	13	71	153	17	8.6	4.3
13	7.1	9.4	7.9	6.3	7.0	7.8	18	79	191	17	7.3	4.2
14	7.4	11	7.7	6.5	6.9	9.3	21	70	256	16	6.7	4.2
15	7.6	12	7.4	7.1	e6.9	10	23	62	296	16	6.7	4.3
16	7.7	11	7.5	6.9	6.8	11	31	54	297	15	6.4	4.1
17	7.5	11	e7.9	6.7	7.1	14	44	57	284	15	6.0	4.0
18	7.4	10	e7.8	7.2	e7.1	18	60	74	274	14	5.6	4.6
19	7.2	9.1	e7.7	7.1	7.2	28	74	94	248	14	5.8	4.9
20	7.2	9.0	e7.8	7.2	e7.2	32	77	106	204	13	5.4	4.4
21	7.3	10	e7.8	6.7	7.1	33	65	106	177	12	5.6	4.4
22	9.2	10	e7.8	6.7	e7.0	28	48	107	148	12	5.6	4.5
23	11	9.8	e7.6	e6.7	6.9	31	37	151	128	11	5.2	4.5
24	8.3	11	e7.3	e6.7	7.1	39	32	323	111	11	5.0	4.5
25	11	10	e7.2	e6.7	7.3	47	40	489	99	11	4.9	4.2
26	10	9.5	e7.2	e6.8	7.3	39	60	501	80	11	4.8	4.2
27	8.8	9.9	7.2	e6.9	7.2	30	71	443	65	11	4.6	4.6
28	11	9.9	7.3	e6.9	7.6	23	68	418	55	10	5.0	4.9
29	11	9.6	7.0	e6.8	---	19	56	444	51	10	4.8	5.1
30	9.0	10	6.9	e6.7	---	17	46	541	48	9.9	4.3	4.9
31	8.1	---	6.9	6.6	---	15	---	364	---	9.4	4.7	---
TOTAL	258.1	289.9	233.0	205.7	195.7	548.0	1014	5276	5345	567.3	203.4	139.9
MEAN	8.33	9.66	7.52	6.64	6.99	17.7	33.8	170	178	18.3	6.56	4.66
MAX	11	12	9.3	7.2	7.6	47	77	541	313	43	9.1	5.8
MIN	7.1	8.3	6.1	6.2	6.5	7.5	10	44	48	9.4	4.3	4.0
AC-FT	512	575	462	408	388	1090	2010	10460	10600	1130	403	277

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 1999, BY WATER YEAR (WY)

	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999	1998	1999
MEAN	8.33	9.66	7.52	6.64	6.99	17.7	33.8	149	184	36.8	7.86	5.76
MAX	8.33	9.66	7.52	6.64	6.99	17.7	33.8	170	189	55.4	9.15	6.86
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1998	1998	1998	1998
MIN	8.33	9.66	7.52	6.64	6.99	17.7	33.8	128	178	18.3	6.56	4.66
(WY)	1999	1999	1999	1999	1999	1999	1999	1998	1999	1999	1999	1999

SUMMARY STATISTICS

FOR 1999 WATER YEAR

WATER YEARS 1998 - 1999

ANNUAL TOTAL	14276.0	
ANNUAL MEAN	39.1	39.1
HIGHEST ANNUAL MEAN		39.1 1999
LOWEST ANNUAL MEAN		39.1 1999
HIGHEST DAILY MEAN	541 May 30	541 May 30 1999
LOWEST DAILY MEAN	4.0 Sep 17	3.7 Sep 2 1998
ANNUAL SEVEN-DAY MINIMUM	4.2 Sep 11	4.0 Aug 30 1998
INSTANTANEOUS PEAK FLOW	824 May 24	824 May 24 1999
INSTANTANEOUS PEAK STAGE	5.50 May 24	5.50 May 24 1999
ANNUAL RUNOFF (AC-FT)	28320	28340
10 PERCENT EXCEEDS	102	155
50 PERCENT EXCEEDS	8.7	10
90 PERCENT EXCEEDS	5.4	5.2

e Estimated

BRUNEAU RIVER BASIN
13162225 JARBIDGE RIVER BELOW JARBIDGE, NV--Continued

WATER-QUALITY RECORDS

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

REMARKS.--In April 1998, station was established in cooperation with the U.S. Forest Service to collect sediment data.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999												
DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	NUMBER OF SAM- PLING POINTS (COUNT) (00063)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SEDI- MENT DIS- CHARGE, BEDLOAD (TONS/ DAY) (80225)	SED. BEDLOAD % FINER THAN (80226)	SED. BEDLOAD % FINER THAN (80227)	SED. BEDLOAD % FINER THAN (80228)
MAY												
28...	1056	366	--	--	--	--	--	--	--	--	--	--
28...	1111	416	25	22.0	5.5	37	20	.25	20	.0	.1	.5
28...	1148	399	25	22.0	5.5	37	20	.25	18	.0	.0	.4
JUN												
02...	1053	286	--	--	--	--	--	--	--	--	--	--
02...	1105	286	--	--	4.5	42	20	.25	5.6	.0	.0	1.6
02...	1145	286	--	22.0	4.5	42	20	.25	14	.0	.0	.8
04...	1026	189	23	14.0	7.0	41	20	.25	3.2	.0	.1	1.8
04...	1055	189	23	14.0	7.0	41	20	.25	9.0	.0	.1	.9
04...	1141	189	--	--	--	--	--	--	--	--	--	--
08...	0945	179	22	7.0	4.5	43	20	.25	12	.0	.0	1.1
08...	1020	179	22	7.0	4.5	43	20	.25	4.9	.1	.1	2.8
08...	1100	179	--	--	--	--	--	--	--	--	--	--
15...	1025	279	--	--	--	--	--	--	--	--	--	--
15...	1042	279	19	24.0	6.5	41	20	.25	7.0	.0	.1	2.0
15...	1118	299	19	24.0	6.5	41	20	.25	11	.0	.1	1.6
17...	0955	279	--	--	--	--	--	--	--	--	--	--
17...	1013	273	19	17.5	6.0	41	20	.25	13	.0	.0	.7
17...	1045	279	19	17.5	6.0	41	20	.25	4.9	.1	.1	2.0
22...	0905	157	20	17.0	7.0	41	20	.25	.40	.0	.0	2.7
22...	0935	157	20	17.0	7.0	41	20	.25	.77	.0	.0	2.2
DATE		SED. BEDLOAD SIEVE DIAM. % FINER THAN 500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY												
28...		--	--	--	--	--	--	--	--	76	75	24
28...		10.6	30.7	52.9	68.9	78.8	84.6	91.4	100	--	--	--
28...		9.7	28.5	51.2	70.6	81.5	89.3	98.0	100	--	--	--
JUN												
02...		--	--	--	--	--	--	--	--	24	19	30
02...		17.7	46.0	75.2	91.9	97.8	100	100	100	--	--	--
02...		7.0	21.2	44.9	62.0	76.6	84.2	87.0	100	--	--	--
04...		14.5	36.8	59.8	73.9	90.4	98.1	100	100	--	--	--
04...		7.4	21.0	43.3	63.0	79.4	92.1	100	100	--	--	--
04...		--	--	--	--	--	--	--	--	9	4.6	37
08...		8.9	27.9	56.5	78.6	95.3	100	100	100	--	--	--
08...		21.3	44.8	60.5	72.0	84.4	97.9	100	100	--	--	--
08...		--	--	--	--	--	--	--	--	5	2.4	39
15...		--	--	--	--	--	--	--	--	28	21	32
15...		16.3	41.9	71.1	89.0	96.0	97.1	100	100	--	--	--
15...		12.7	34.0	61.9	83.2	94.8	100	100	100	--	--	--
17...		--	--	--	--	--	--	--	--	19	14	32
17...		5.7	18.8	42.1	66.0	83.4	93.4	100	100	--	--	--
17...		16.7	40.5	71.3	87.4	96.0	100	100	100	--	--	--
22...		20.9	51.0	78.3	94.9	100	100	100	100	7	3.0	29
22...		16.7	36.0	61.2	74.9	89.0	89.0	100	100	--	--	--

13174500 OWYHEE RIVER NEAR GOLD CREEK, NV

LOCATION.--Lat 41°41'20", long 115°50'38", in NE 1/4 NW 1/4 sec.25, T.44 N., R.54 E., Elko County, Hydrologic Unit 17050104, in Humboldt National Forest, on left bank, 500 ft downstream from Wild Horse Dam, 0.1 mi upstream from Beaver Creek, 8 mi west of Gold Creek, and 12 mi southeast of Mountain City.

DRAINAGE AREA.--209 mi².

PERIOD OF RECORD.--April to October 1916, April 1917 to September 1925, October 1936 to current year.

REVISED RECORDS.--WSP 1317: 1939-42 (M).

GAGE.--Water-stage recorder. Datum of gage is 6,118.75 ft, Bureau of Reclamation datum. Prior to October 1, 1936, at site 0.3 mi upstream at different datum. November 17, 1936, to October 18, 1967, at site 0.1 mi upstream at different datum. October 19, 1967, to September 30, 1971, temporary gage, 250 ft downstream at different datum, while new dam was being constructed 300 ft downstream from old dam.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above station. Flow regulated by Wild Horse Reservoir (station 13174000), capacity, 71,660 acre-ft, 0.1 mi upstream beginning March 18, 1938.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,810 ft³/s, May 5, 1922, gage height, 10.11 ft, site and datum then in use; no flow many days, some years, due to gate regulation on reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 163 ft³/s, June 4, gage height, 2.12 ft; minimum daily 0.03 ft³/s many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	23	3.0	3.0	3.0	e.03	e.03	e.03	120	81	131	119
2	44	23	3.0	3.0	3.0	e.03	e.03	e.03	120	81	130	119
3	44	23	3.0	3.0	3.0	e.03	e.03	e.03	147	81	126	95
4	44	23	3.0	3.0	3.0	e.03	e.03	3.0	159	82	122	89
5	44	23	3.0	3.0	3.0	e.03	e.03	15	152	83	122	89
6	44	13	3.0	3.0	3.0	e.03	e.03	41	147	83	122	89
7	44	2.3	3.0	3.0	3.0	e.03	e.03	66	140	83	122	89
8	35	1.9	3.0	3.0	3.0	e.03	e.03	83	129	82	121	89
9	25	1.5	2.9	3.2	3.0	e.03	e.03	95	120	82	121	89
10	25	1.2	2.9	3.2	e.64	e.03	e.03	103	112	81	120	96
11	25	.77	2.9	3.2	e.03	e.03	e.03	109	105	81	119	101
12	25	.90	2.9	3.2	e.03	e.03	e.03	112	99	81	119	101
13	25	.80	2.9	3.2	e.03	e.03	e.03	119	94	85	120	101
14	25	.77	2.9	3.2	e.03	e.03	e.03	123	88	92	121	101
15	25	.77	2.9	3.2	e.03	e.03	e.03	128	82	91	120	101
16	25	.71	2.9	3.0	e.03	e.03	e.03	131	72	102	119	93
17	25	.64	2.9	3.0	e.03	e.03	e.03	128	65	115	119	89
18	25	.64	2.9	2.9	e.03	e.03	e.03	124	59	115	121	90
19	25	1.5	2.9	2.9	e.03	e.03	e.03	121	52	115	120	89
20	25	2.9	2.9	2.9	e.03	e.03	e.03	119	50	115	120	89
21	24	2.9	2.9	3.0	e.03	e.03	e.03	119	56	115	119	89
22	24	3.2	2.9	3.0	e.03	e.03	e.03	120	70	115	120	83
23	24	3.2	3.0	3.0	e.03	e.03	e.03	121	62	115	120	63
24	24	3.2	3.0	3.0	e.03	e.03	e.03	124	56	115	119	54
25	23	3.2	3.0	3.0	e.03	e.03	e.03	128	51	115	120	55
26	23	3.2	3.0	3.2	e.03	e.03	e.03	128	48	121	119	53
27	23	3.1	3.0	3.2	e.03	e.03	e.03	126	44	129	119	52
28	23	3.0	3.0	3.2	e.03	e.03	e.03	124	62	129	120	53
29	23	3.0	3.0	3.0	---	e.03	e.03	127	79	130	119	53
30	23	3.0	3.0	3.0	---	e.03	e.03	136	80	130	119	53
31	23	---	3.0	3.0	---	e.03	---	129	---	131	119	---
TOTAL	900	176.30	91.6	94.7	28.18	0.93	0.90	3002.09	2720	3156	3748	2526
MEAN	29.0	5.88	2.95	3.05	1.01	.030	.030	96.8	90.7	102	121	84.2
MAX	44	23	3.0	3.2	3.0	.03	.03	136	159	131	131	119
MIN	23	.64	2.9	2.9	.03	.03	.03	.03	44	81	119	52
AC-FT	1790	350	182	188	56	1.8	1.8	5950	5400	6260	7430	5010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1999, BY WATER YEAR (WY)

	MEAN	11.9	4.45	3.57	4.43	7.38	14.5	86.9	128	86.5	77.8	71.0	36.3
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	.28	1.54	1.00	1.50	
(WY)	1939	1939	1939	1939	1939	1940	1939	1941	1995	1992	1918	1937	

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1916 - 1999

ANNUAL TOTAL	17242.70	16444.70	
ANNUAL MEAN	47.2	45.1	44.0
HIGHEST ANNUAL MEAN			161
LOWEST ANNUAL MEAN			9.95
HIGHEST DAILY MEAN	251	May 17	159
LOWEST DAILY MEAN	.00	Jan 24	.03
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 3	.03
INSTANTANEOUS PEAK FLOW			163
INSTANTANEOUS PEAK STAGE			2.12
ANNUAL RUNOFF (AC-FT)	34200	32620	31840
10 PERCENT EXCEEDS	117	121	127
50 PERCENT EXCEEDS	23	23	6.6
90 PERCENT EXCEEDS	.00	.03	.00

e Estimated

OWYHEE RIVER BASIN
13175100 OWYHEE RIVER NEAR MOUNTAIN CITY, NV

LOCATION.--Lat 41°51'38", long 115°59'18", in SE 1/4 NW 1/4 sec.26, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, on left bank, 2.1 mi northwest of Mountain City.

DRAINAGE AREA.--391 mi².

PERIOD OF RECORD.--April 1991 to September 1995; May 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,560 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s, March 17, 1993, gage height, 9.81 ft; minimum daily, 0.42 ft³/s, August 4, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 557 ft³/s, May 24, gage height, 6.35 ft; minimum daily, 16 ft³/s, February 11-15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	43	31	45	e18	142	115	317	418	131	148	126
2	62	44	30	50	e18	119	106	387	441	132	148	131
3	64	42	29	44	e17	94	101	454	488	126	137	122
4	66	42	29	e44	e17	63	94	428	461	127	130	93
5	65	45	26	e44	e17	45	98	402	427	124	127	93
6	64	45	34	e43	e17	52	98	452	417	120	126	92
7	64	30	33	e44	e17	50	101	487	400	116	124	e95
8	63	26	32	43	e17	42	107	501	377	109	125	e95
9	46	24	36	44	e17	45	104	471	355	109	125	e95
10	42	23	28	45	e17	40	76	353	326	109	126	e100
11	42	24	35	43	e16	41	119	365	286	107	128	e107
12	42	23	33	44	e16	33	126	463	274	104	128	e107
13	41	23	31	38	e16	42	141	491	264	106	127	e107
14	41	23	29	41	e16	60	160	385	243	118	127	e107
15	41	24	30	e39	e16	70	135	469	223	119	126	e107
16	41	23	33	e37	e19	81	141	364	214	117	125	e107
17	41	24	32	e35	e24	93	200	432	202	139	119	e97
18	42	25	31	e32	e27	128	264	438	190	136	108	e95
19	42	23	e27	e40	e25	181	334	446	173	133	116	e95
20	42	22	e24	e32	e23	211	390	470	156	127	123	93
21	41	28	e22	e29	e23	302	383	487	135	134	123	93
22	42	32	e24	e26	e27	206	318	510	162	131	124	90
23	45	29	e28	e24	e25	188	261	524	162	122	130	81
24	43	30	e34	e23	e24	212	231	536	145	125	128	61
25	46	28	39	e21	e31	262	251	530	127	132	127	56
26	44	28	38	e19	e30	311	327	521	112	134	126	55
27	43	27	51	e18	34	265	347	505	103	151	127	57
28	44	27	58	e18	64	178	332	496	101	151	125	57
29	45	29	54	e18	---	157	274	494	131	150	124	56
30	43	30	48	e18	---	143	243	484	132	147	124	54
31	42	---	43	e18	---	128	---	449	---	149	123	---
TOTAL	1492	886	1052	1059	628	3984	5977	14111	7645	3935	3924	2724
MEAN	48.1	29.5	33.9	34.2	22.4	129	199	455	255	127	127	90.8
MAX	66	45	58	50	64	311	390	536	488	151	148	131
MIN	41	22	22	18	16	33	76	317	101	104	108	54
AC-FT	2960	1760	2090	2100	1250	7900	11860	27990	15160	7810	7780	5400

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1999, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	21.6	23.0	24.6	25.5	37.2	139	158	316	162
MAX	48.1	31.5	33.9	39.9	113	364	295	617	327
(WY)	1999	1995	1999	1995	1995	1993	1993	1998	1998
MIN	7.49	14.0	15.8	15.0	14.0	32.9	35.0	62.2	27.2
(WY)	1993	1993	1992	1992	1998	1992	1992	1992	1992

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1991 - 1999

ANNUAL TOTAL	53179	47417	
ANNUAL MEAN	146	130	96.1
HIGHEST ANNUAL MEAN			143
LOWEST ANNUAL MEAN			21.7
HIGHEST DAILY MEAN	934	May 17	536
LOWEST DAILY MEAN	11	Feb 19	16
ANNUAL SEVEN-DAY MINIMUM	11	Feb 24	16
INSTANTANEOUS PEAK FLOW			557
INSTANTANEOUS PEAK STAGE			6.35
ANNUAL RUNOFF (AC-FT)	105500	94050	69610
10 PERCENT EXCEEDS	453	379	264
50 PERCENT EXCEEDS	85	95	54
90 PERCENT EXCEEDS	17	24	12

e Estimated

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

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 for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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